

# **EURO 2016**

Preliminary Program (short version)

July 3, 2016

# TECHNICAL PROGRAM

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**Sunday, 16:30-18:00**

■ **SA-01**

*Sunday, 16:30-18:00 - Building CW, AULA MAGNA*

**Opening Session**

Stream: Opening and Closing sessions

Chair: *Daniele Vigo*

**1 - Opening Session**

*Daniele Vigo, Joanna Józefowska*

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## Monday, 8:30-10:00

### ■ MA-01

Monday, 8:30-10:00 - Building CW, AULA MAGNA

#### Keynote Marielle Christiansen

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Wout Dullaert

- 1 - **Optimization of Maritime Transportation**  
*Marielle Christiansen*

### ■ MA-02

Monday, 8:30-10:00 - Building CW, 1st floor, Room 7

#### Evolutionary Multiobjective Optimization 1

Stream: Evolutionary Multiobjective Optimization

Chair: Ernestas Filatovas

- 1 - **Experimental Analysis of Design Elements of Scalarizing Functions-based Multiobjective Evolutionary Algorithms on TSP with Profits**  
*Andrzej Jaskiewicz, Mansoureh Aghabeig*
- 2 - **ND-Tree: a Fast Online Algorithm for Updating a Pareto Archive**  
*Thibaut Lust, Andrzej Jaskiewicz*
- 3 - **Experiments with large-scale evolutionary multi-objective optimization for Intensity Modulated Radiation Therapy**  
*Janusz Miroforidis, Ignacy Kaliszewski, Dmitry Podkopaev*
- 4 - **NSGA-NBI: a preference-based multi-objective evolutionary algorithm**  
*Ernestas Filatovas, Juana Lopez Redondo, Jose Fernandez, Olga Kurasova*

### ■ MA-03

Monday, 8:30-10:00 - Building CW, 1st floor, Room 13

#### MADM Application 1

Stream: Multiple Criteria Decision Analysis

Chair: Yi-Hsien Wang

- 1 - **Determining the Key Factors of Evaluation Model for Promoting Operation Abilities of Hot Spring Hotel**  
*Chie-bein Chen, Hsiao Ching Chen, Ming Shen Chang, Yen-Llin Chen*
- 2 - **Comparative Analysis of Information Value of Strategic Alliances and Mergers and Acquisition: Competitive Dynamics Perspective**  
*Shih-Cheng Lee, Yi-Hsien Wang, Wan-Rung Lin, Cheng-Shian Lin, Ya-Feng Chang*

- 3 - **The Effect of Internet Sentiment Tracking on Stock Returns and Volatility of Listed Company - A Case of Taiwan Financial Holding Industry**  
*Yi-Hsien Wang, Fu-Ju Yang, Hai-Yen Chang, Yu-Ting Mai*

- 4 - **Herd Behavior in Online Shopping**  
*Yi-Fen Chen, Yu-Chen Tseng*

### ■ MA-04

Monday, 8:30-10:00 - Building CW, ground floor, Room 6

#### OR in Quality Management

Stream: OR in Quality Management

Chair: Ipek Deveci Kocakoç

Chair: Gokce Baysal Turkolmez

- 1 - **An Application of Six Sigma to Enhance Restaurant Service Quality**  
*Li-Fei Chen, Chao-Ton Su*
- 2 - **Bootstrapping control chart for skewed process**  
*Shih-Chou Kao*
- 3 - **Multiobjective Evolutionary Optimization Approach to Multiresponse Surface Problems**  
*Gokce Baysal Turkolmez, Ipek Deveci Kocakoç*

### ■ MA-05

Monday, 8:30-10:00 - Building CW, 1st floor, Room 8

#### Multiobjective Optimization in Supply Chain Management and Logistics 1

Stream: Multiobjective Optimization

Chair: Sandra Huber

Chair: Martin Josef Geiger

- 1 - **A Multiobjective Approach to Solve Container Ship Loading Planning Problem with Uncertainty**  
*Ricardo Coelho Silva*
- 2 - **Strategic decision support for the Bi-objective Location-Arc Routing Problem**  
*Sandra Huber*

### ■ MA-06

Monday, 8:30-10:00 - Building CW, ground floor, Room 2

#### Spatial Multicriteria Evaluation: insights and future developments

Stream: Multiple Criteria Decision Aiding

Chair: Valentina Ferretti

- 1 - **Planning activities at sea: integrating MCDA and GIS**  
*Alexandru Olteanu, Patrick Meyer*
- 2 - **A framework for assessing errors in Spatial Multi-Criteria Evaluation decision problem structuring.**  
*Luc Boerboom, Montse Gibert Fortuny, Valentina Ferretti*
- 3 - **SOMERSET-P: An integrated modelling platform for territorial and environmental planning**  
*Jean-Philippe Waaub, Jean-François Guay*

**4 - A multi-criteria approach for the construction of Land-use Change Spatial Composite Indicators**

Valentina Sannicandro, Raffaele Attardi, Alessandro Bonifazi, Maria Cerreta, Carmelo Maria Torre

**■ MA-07**

Monday, 8:30-10:00 - Building CW, 1st floor, Room 123

**ROADEF/EURO OR Challenge presentation (I)**

Stream: EURO Awards and Journals

Chair: Eric Bourreau

Chair: Vincent Jost

Chair: Safia Kedad-Sidhoum

Chair: David Savourey

Chair: Marc Sevaux

Chair: Jean André

Chair: Michele Quattrone

Chair: Rodrigue Fokouop

**1 - A heuristic approach for Air Liquid Inventory Routing Problem**

Irma Yazmín Hernández-Báez, Federico Alonso-Pecina, Alma Delia Nieto-Yáñez, Roberto López-Díaz

**2 - A Matheuristic for the Inventory Routing Problem with Shifts**

Yun He, Christian Artigues, Cyril Briand, Nicolas Jozefowicz, Sandra Ulrich Ngueveu

**3 - Challenge ROADEF/EURO Revival**

Eric Bourreau

**■ MA-08**

Monday, 8:30-10:00 - Building CW, 1st floor, Room 9

**MCDA and finance**

Stream: Multiple Criteria Decision Aiding

Chair: Michael Doumpos

Chair: Constantin Zopounidis

**1 - Detecting the most relevant criteria in the evaluation of innovative SMEs' creditworthiness**

Silvia Angilella, Sebastiano Mazzù

**2 - Financial distress in the European energy sector: A prediction model and the effect of country characteristics**

Constantin Zopounidis, Kostas Andriosopoulos, Michael Doumpos, Emiliós Galariotis, Georgia Makridou

**3 - Stability aspects in discrete venturesome investment models**

Vadzim Mychkou, Vladimir Emelichev, Yury Nikulin

**4 - A 2-additive Choquet integral model for French hospitals rankings in weight loss surgery**

Brice Mayag

**■ MA-09**

Monday, 8:30-10:00 - Building CW, 1st floor, Room 12

**OR and the Arts**

Stream: OR and the Arts

Chair: Semih Kuter

Chair: Gerhard-Wilhelm Weber

Chair: Joanna Józefowska

**1 - 3D Model Optimization of a Heritage Artifact for Mobile Applications**

Ewa Lukasik

**2 - Creating Art Based on Mathematics — Revisiting OR via "Deep Learning"**

Gamze Nałçacı, Meltem Atay, Gerhard-Wilhelm Weber

**■ MA-10**

Monday, 8:30-10:00 - Building CW, ground floor, Room 1

**OR and Ethics**

Stream: OR and Ethics

Chair: Robyn Moore

**1 - On the Role of Multicriteria Decision Aiding (MCDA) in Strategic Assessment of Olympic Games (OG)**

Joao Clímaco, Rogério Valle

**2 - Unleashing third sector potential: a case of Community Operational Research (COR) in Aotearoa New Zealand**

Robyn Moore

**3 - The EthOR award and the importance of OR education for Ethics**

Pierre Kunsch

**■ MA-11**

Monday, 8:30-10:00 - Building CW, 1st floor, Room 127

**Fuzzy Optimization and Applications**

Stream: Fuzzy Optimization - Systems, Networks and Applications

Chair: Gerhard-Wilhelm Weber

Chair: Ali Hamidoglu

Chair: Angel M. Gento Municio

**1 - Estimating the Membership Function of the Fuzzy Willingness-to-Pay/Accept for Health via Bayesian Modelling**

Michał Jakubczyk

**2 - Supplier Selection in a Fuzzy and Probabilistic Environment**

Ahmad Makui

**3 - An Inverse Function Based Maximizing Set and Minimizing Set Method to Rank Alternatives Under Fuzzy Multiple Criteria Decision Making**

Ta-Chung Chu

#### 4 - Risk management in supply chains

Angel M. Gento Municio, Alina Diaz Curbelo, Fernando Marrero Delgado

### ■ MA-12

Monday, 8:30-10:00 - Building CW, ground floor, Room 029

#### Retail sector

Stream: Sustainable Supply Chains

Chair: Ramin Geramianfar

- 1 - **Design of a Sustainable Production and Distribution Network**  
*Ramin Geramianfar, Amin Chaabane, Jacqueline Bloemhof*
- 2 - **The effects of joint ordering on sustainability in fresh food logistics: a case study in the Dutch food retail sector**  
*Heleen Stellingwerf, Jacqueline Bloemhof, Jack van der Vorst*
- 3 - **Supply Chain Network Competition Based on Retailers, Risk Attitude**  
*Hêriş Golpîra, Somaye Rostami*

### ■ MA-13

Monday, 8:30-10:00 - Building CW, ground floor, Room 3

#### VeRoLog: Exact methods for solving application-oriented VRP generalizations

Stream: Vehicle Routing and Logistics Optimization

Chair: Claudio Gambella

Chair: *Daniele Vigo*

- 1 - **The Traveling Salesman Problem with Time-dependent Service Times**  
*Duygu Tas, Michel Gendreau, Ola Jabali, Gilbert Laporte*
- 2 - **The Time Window Assignment Vehicle Routing Problem with Time-Dependent Travel Times**  
*Remy Spliet*
- 3 - **Vehicle Routing Problem with Floating Locations**  
*Joe Naoum-Sawaya, Claudio Gambella, Bissan Ghaddar*

### ■ MA-16

Monday, 8:30-10:00 - Building CW, 1st floor, Room 128

#### Robust Combinatorial Optimization I

Stream: Discrete Optimization under Uncertainty

Chair: Dennis Michaels

- 1 - **Min-max-min Robust Optimization**  
*Jannis Kurtz, Christoph Buchheim*
- 2 - **Min-max-min Robust Vehicle Routing**  
*Lars Eufinger, Jannis Kurtz, Uwe Clausen, Christoph Buchheim*

#### 3 - Complexity and Approximability Results for Robust Perfect Matchings in Bipartite Graphs

Dennis Michaels, David Adjiashvili, Viktor Bindewald

### ■ MA-17

Monday, 8:30-10:00 - Building CW, ground floor, Room 0210

#### Transportation 1

Stream: Transportation

Chair: Alexandre Iglesias

- 1 - **A solution method for congested transit assignment with explicit capacities**  
*Esteve Codina, Francisca Rosell*
- 2 - **Transportation Planning in a Sharing Economy Setting**  
*Moritz Behrend, Frank Meisel*
- 3 - **On some practical issues with trip planning in transportation networks**  
*Alexandre Iglesias, Dominique Feillet, Dominique Quadri*

### ■ MA-18

Monday, 8:30-10:00 - Building CW, ground floor, Room 023

#### Case Studies

Stream: Production and Operations Management

Chair: Jânio Neri

Chair: *Maria Mavri*

- 1 - **Analyzing logistics risk in food supply chain using AHP and ANP methods**  
*Thi Huong Tran, Sebastian Kummer*
- 2 - **Automated system of electronic waste management of a steel in Brazil**  
*Jânio Neri, Kelly Costa, Eliane Christo, Amanda Mendes*
- 3 - **A proposed research methodology to investigate the lack of lean manufacturing implementation in Libyan manufacturing companies**  
*Mohamed Abdulmula, Martin Birkett, Chris Conner*
- 4 - **Defining the cost of producing an object by traditional and 3D manufacturing procedure**  
*Maria Mavri, Evgenia Fronimaki, Stella Zounta*

### ■ MA-19

Monday, 8:30-10:00 - Building CW, ground floor, Room 021

#### Lot Sizing, Lot Scheduling and Related Problems 1

Stream: Lot Sizing, Lot Scheduling and Production Planning

Chair: Pedro Amorim

- 1 - **Experiences from Implementing Production Planning Systems in Practice**  
*Stefan Droste*

**2 - An Algorithm for General Infinite Horizon Lot Sizing with Deterministic Non-stationary Demand**

*Milan Horniaček*

**3 - Integrated procurement and reprocessing planning of perishable and re-usable medical devices in hospitals**

*Steffen Rickers, Florian Sahling*

**4 - Robust Optimization and Stochastic Programming Approaches for the Lot Sizing and Scheduling Problem**

*Eduardo Curcio, Pedro Amorim, Douglas Alem, Bernardo Almada-Lobo*

■ **MA-20**

*Monday, 8:30-10:00 - Building CW, ground floor, Room 022*

**EWGLA: Hub Location**

Stream: Location

Chair: *Sibel A. Alumur*

Chair: *Francisco Saldanha-da-Gama*

**1 - An exact solution approach for single allocation hub location problems with multiple capacity levels**

*Borzou Rostami, Christopher Strothmann, Christoph Buchheim*

**2 - p-hub location problems with economies of scale**

*H.a. Eiselt, Armin Lüer-Villagra, Vladimir Marianov*

**3 - Properties of a graph transformation to the hub and spoke structure**

*Krzysztof Sep*

■ **MA-21**

*Monday, 8:30-10:00 - Building CW, ground floor, Room 025*

**Train scheduling: real-time and planning**

Stream: Public Transportation

Chair: *Valentina Cacchiani*

**1 - Ant colony optimization for the real-time train routing selection problem**

*Marcella Samà, Paola Pellegrini, Andrea D'Ariano, Joaquin Rodriguez, Dario Pacciarelli*

**2 - Benders Decomposition for the real-time Railway Traffic Management**

*Kaba Keita, Paola Pellegrini, Joaquin Rodriguez*

**3 - High Speed Train Timetable Planning for the Chinese Railways**

*Feng Jiang, Valentina Cacchiani, Paolo Toth*

**4 - Resolving infeasibilities in railway timetabling instances**

*Gert-Jaap Polinder, Leo Kroon, Marie Schmidt*

■ **MA-22**

*Monday, 8:30-10:00 - Building CW, ground floor, Room 027*

**Routing and navigation with route quality measures**

Stream: Combinatorial Optimization

Chair: *Evgeny Gurevsky*

Chair: *Sergey Kovalev*

Chair: *Mikhail Y. Kovalyov*

**1 - An exact method for multi-objective multi-modal trip planning problem**

*Sergey Kovalev, Romain Billot*

**2 - Converting OSM data into a routable graph for pedestrians**

*Sebastian Naumann, Anita Graser, Markus Straub*

**3 - Combinatorial problems of risk management for routing and network design**

*Evgeny Gurevsky, Sergey Kovalev, Mikhail Y. Kovalyov*

**4 - A study on the Hybrid Method of the Genetic Algorithm - Particle Swarm Optimization for the Transportation Problem with Fixed Costs and Non-linear Unit Costs.**

*Kiseok Sung*

■ **MA-23**

*Monday, 8:30-10:00 - Building CW, ground floor, Room 028*

**Dynamical Systems of Graphs and Networks**

Stream: Graphs and Networks

Chair: *Jörg Rambau*

Chair: *Peter Hegarty*

**1 - Techniques for analysing the Hegselmann-Krause dynamics**

*Edvin Wedin*

**2 - Opinions and diplomacy in the presence of uncertain confidence radii**

*Jörg Rambau, Andreas Deuerling*

■ **MA-24**

*Monday, 8:30-10:00 - Building BM, 1st floor, Room 119*

**Defence and Security 1**

Stream: Defence and Security

Chair: *Ana Isabel Barros*

**1 - Force Structuring Optimization Model**

*Okan Arslan, Ahmet Kandakoglu*

**2 - Missile Target Rescheduling Problem of a Naval Task Group**

*Ahmet Silav, Esra Karasakal, Orhan Karasakal*

**3 - Integrated Scheduling Approach for Future Capability Development Based on Genetic Algorithm**

*Michael Preuß*

**4 - Solving a Military Training Problem as a Multiobjective Quadratic Assignment Problem**

*Slawo Wesolkowski, Nevena Francetic, Jeff Watchorn*

**■ MA-25**

*Monday, 8:30-10:00 - Building BM, ground floor, Room 19*

**General behavioural OR papers**

Stream: Behavioural Operational Research

Chair: *L. Alberto Franco*

**1 - Engaging with behavioural OR: On methods, actors, and praxis**

*L. Alberto Franco, Raimo P. Hämmäläinen*

**2 - Path Dependence in Operational Research - How the Modeling Process Can Influence the Results**

*Tuomas Lahtinen, Raimo P. Hämmäläinen*

**3 - Manipulating Expert Risk Perception through Visual Information Format**

*Ross Ritchie*

**■ MA-26**

*Monday, 8:30-10:00 - Building BM, 1st floor, Room 109D*

**Dynamical Models in Sustainable Development 1**

Stream: Dynamical Models in Sustainable Development

Chair: *Reza Fazeli*

**1 - Renewable Energy Project Evaluation in Uncertain Regulatory Environment: Case of Offshore Wind Industry**

*Negar Akbari*

**2 - A Service Network Design Model for Multimodal Municipal Solid Waste Transport**

*Dirk Inghels, Wout Dullaert, Daniele Vigo*

**3 - Optimizing the insertion of renewables in the Colombian power sector**

*Felipe Henao, Yeny Rodriguez, Isaac Dynner*

**4 - A combined multi-criteria and system dynamics methodology for mid-term planning of light duty vehicle fleets**

*Reza Fazeli*

**■ MA-27**

*Monday, 8:30-10:00 - Building BM, ground floor, Room 20*

**Optimal Stopping and Game Theory**

Stream: Dynamical Systems and Mathematical Modelling in OR

Chair: *Elzbieta Ferenstein*

Chair: *Katsunori Ano*

**1 - Full-information best choice problem with distribution change in value of options**

*Aiko Kurushima*

**2 - On some game with unbounded horizon**

*Marek Skarupski, Krzysztof Szajowski*

**3 - A search allocation game with private information about the effectiveness of detection sensors**

*Ryusuke Hohzaki*

**4 - Elfving stopping time problem with random intensity**

*Elzbieta Ferenstein, Anna Krasnosielska-Kobos*

**■ MA-29**

*Monday, 8:30-10:00 - Building BM, ground floor, Room 7*

**Health Care Management under Emergency Aspects**

Stream: Health Care Emergency Management

Chair: *Gerhard-Wilhelm Weber*

Chair: *Vahid Eghbal Akhlaghi*

**1 - Optimization of Medical Bed Resources using Queueing Theory and Hill Climbing**

*Anders Reenberg Andersen, Bo Friis Nielsen, Line Blander Reinhardt*

**2 - A Simulation-Based Generic Framework for Workforce Planning of Health Centers in Turkey**

*Tugba Guler Sonmez, Volkan Sönmez*

**3 - Mathematical Models in Hospital Emergency Department: Literature Review**

*Andres Felipe Hurtado Ariza, Alejandra Quintana, Laura Amaya, Sebastian Hurtado, Lorena Reyes*

**■ MA-30**

*Monday, 8:30-10:00 - Building BM, 1st floor, Room 110*

**System Dynamics Session 1**

Stream: System Dynamics Modeling and Simulation

Chair: *Rogelio Oliva*

**1 - The Challenge of Model Complexity: Improving the Interpretation of Large Causal Models through Variety Filters**

*Lukas Schoenenberger, Alexander Michael Schmid, John Ansah, Markus Schwaninger*

**2 - Boom and Bust Dynamics of Management Tool Implementation**

*Markus Schwenke, Stefan Groesser*

**3 - Business Models for Information Products in the Internet Age: A System Dynamics Approach**

*Evgenia Ushakova*

**4 - Analytical Functional Forms for Table Functions in SD Models**

*Rogelio Oliva*

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■ **MA-31**

*Monday, 8:30-10:00 - Building BM, 1st floor, Room 111*

**Team Sports**

Stream: OR in Sports

Chair: Dries Goossens

**1 - A New Mathematical Model for the Team Formation Problem in Sports Clubs**

*Gerçek Budak, İmdat Kara, Yusuf Tansel İç, Refail Kasimbeyli*

**2 - Towards a Performance Measure for Player Combinations in Football**

*Soumyakanti Chakraborty, Sumit Sarkar*

**3 - Internal Competition in Team Sports: Measures and Analysis**

*Uday Damodaran, Suma Damodaran*

**4 - Application of Control Charts to Identify the Change Points in Run Chasing Strategy in Limited over Cricket Matches**

*Dipankar Bose*

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■ **MA-33**

*Monday, 8:30-10:00 - Building BM, 1st floor, Room 113*

**Emerging Applications of Data Mining and Computational Statistics 1**

Stream: Computational Statistics

Chair: Pakize Taylan

Chair: Gerhard-Wilhelm Weber

Chair: Sureyya Ozogur-Akyuz

**1 - The Impact of Big Data Analytics on Supply Chain Performance in Grocery Retailing Sector in UK**

*Christos Papanagnou, Yana Mladenova*

**2 - Ensemble Clustering Selection by Optimization of Accuracy-Diversity Trade-off**

*Sureyya Ozogur-Akyuz*

**3 - A Partial Parametric Path Algorithm for Multi-class Classification**

*Ling Liu, Francisco Prieto, Belen Martin Barragan*

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■ **MA-34**

*Monday, 8:30-10:00 - Building BM, 1st floor, Room 116*

**Stochastic Optimisation in Supply Chain Management 1**

Stream: Supply Chain Scheduling and Logistics

Chair: Roberto Rossi

Chair: Armagan Tarim

Chair: Steven Prestwich

**1 - Closed Inventory Routing Problem for Returnable Transport Items**

*Mehmet Soysal*

**2 - Optimal replenishment under price uncertainty**

*Esther Mohr*

**3 - Policy Learning for Lot-Sizing Stochastic Inventory Control Problem: a Neuro-Evolutionary Approach**

*Carlo Manna, Steven Prestwich, Roberto Rossi, Armagan Tarim*

**4 - A simple heuristic for perishable item inventory control under non-stationary stochastic demand**

*Roberto Rossi, Alejandro Gutierrez Alcobá, Belen Martin-Barragan, Eligius M.T. Hendrix*

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■ **MA-35**

*Monday, 8:30-10:00 - Building BM, ground floor, Room 17*

**Optimization in Health Care**

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Metin Turkey

**1 - Finding an Optimal Vaccination Profile to Control the Spread of Infection During an Epidemic**

*Reena Kapoor, Olivia Smith, Chaitanya Rao, Roslyn Hickson*

**2 - Focus on Large Bioinformatics-related Projects**

*Damian Borys, Krzysztof Fajarewicz, Dariusz Mrozek, Krzysztof Psiuk-Maksymowicz, Jaroslaw Smieja, Andrzej Swierniak*

**3 - Does Telecare have an Economic Effect when Used by Patients with Chronic Diseases in the Long Run?**

*Masatsugu Tsuji*

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■ **MA-36**

*Monday, 8:30-10:00 - Building BM, ground floor, Room 18*

**OR for Sustainable Development**

Stream: OR for Sustainable Development

Chair: Tatjana Vilutiene

**1 - BIM-based Model for Process Management in Building Life-cycle**

*Tatjana Vilutiene, Leonas Ustinovičius*

**2 - A study on the travel time generalized cost function in Kaunas city**

*Andrius Barauskas, Vytautas Dumbliauskas*

■ **MA-38**

*Monday, 8:30-10:00 - Building BM, 1st floor, Room 109M*

**Optimization for Sustainable Development Related to Industries 1**

Stream: Optimization for Sustainable Development

Chair: *Herman Mawengkang*

Chair: *Sadia Samar Ali*

**1 - Modeling a Reliable Water-Distribution Network Using Chance Constrained Programming**

*Asrin Lubis, Herman Mawengkang*

**2 - A Multi-objective Programming Model for Sustainable Production Planning of Crude Palm Oil**

*Hendaru Sadyadharma, Herman Mawengkang*

**3 - Raising Social Awareness toward Local Natural Disaster Threats Using Societal Complexity Approach**

*Irwan Supadli, Herman Mawengkang*

■ **MA-39**

*Monday, 8:30-10:00 - Building WE, 1st floor, Room 107*

**Biomass-Based Supply Chains**

Stream: Biomass-Based Supply Chains

Chair: *Magnus Fröhling*

Chair: *Taraneh Sowlati*

**1 - Optimization-Simulation approach for Strategical decisions on Sustainability Bio-refinery Supply Chain**

*Andrea Espinoza, Paulo Narvaez Rincon, Miguel Alfaro, Mauricio Camargo*

**2 - Multi-Agent-Simulation of a Biomass-to-Energy Market**

*Beatriz Beyer, Lars-Peter Lauven, Jutta Geldermann*

**3 - From food waste to graphitic carbon - a sustainable development?**

*Florian Gehring, Christian Peter Brandstetter, Eva Knüpfper, Stefan Albrecht*

**4 - Design of bioenergy supply chains with long-distance, multi-modal transportation**

*Tobias Zimmer, Patrick Breun, Frank Schultmann*

■ **MA-40**

*Monday, 8:30-10:00 - Building WE, 1st floor, Room 108*

**Optimization in Financial and Supply Chain Networks**

Stream: Financial Engineering and Optimization

Chair: *Kamil Mizgier*

**1 - Extreme Values in Property Damage and Business Interruption Insurance**

*Kamil Mizgier, Stephan Wagner*

**2 - An Optimization Procedure for a Maximum Gamma and Constrained Theta Portfolio**

*Arik Sadeh, Dar Kronenblum*

**3 - The Influence of Working Capital Management on Firm Performance: Thailand Evidence**

*Phassawan Suntraruk*

■ **MA-41**

*Monday, 8:30-10:00 - Building WE, 2nd floor, Room 209*

**Financial Mathematics 1**

Stream: Financial Mathematics and OR

Chair: *Rei Yamamoto*

Chair: *Katsunori Ano*

**1 - A Fuzzy Mixed-integer Programming Approach to Portfolio Optimization**

*Gulcan Petricli, Gül Gökay Emel, Tuba Bora*

**2 - Optimal Multiple Pairs Trading Strategy using Derivative Free Optimization under Actual Investment Management Conditions**

*Rei Yamamoto, Norio Hibiki*

**3 - Stress Testing Model for Credit Portfolio using Vine Copula**

*Muneki Kawaguchi*

**4 - Lundberg model with portfolio and asset management of surplus**

*Reina Takemura, Yasuhiro Ouchi, Yoshinori Kashizume, Katsunori Ano*

■ **MA-42**

*Monday, 8:30-10:00 - Building WE, 1st floor, Room 120*

**Game Theoretical Models and Applications**

Stream: Game Theory, Solutions and Structures

Chair: *Encarnación Algaba*

**1 - A Relevance Index for Genes in a Biological Network**

*Giulia Cesari, Encarnación Algaba, Stefano Moretti, Juan Antonio Nepomuceno*

**2 - An Approach to Fair Division in the Social Context**

*Izabella Stach, Cesarino Bertini*

**3 - A Game Theoretical Approach to Allocate Profits in Public Transportation Systems**

*Encarnación Algaba, Vito Fragnelli, Natividad Llorca, Joaquin Sánchez-Soriano*

■ **MA-43**

*Monday, 8:30-10:00 - Building WE, ground floor, Room 18*

**Renewable Resource Assessment and Forecasting**

Stream: Stochastic Models in Renewably Generated Electricity

Chair: *John Boland*

**1 - The viability of electrical energy storage for low-energy households**

*Adrian Grantham*

**2 - Probabilistic forecasting of renewable energy sources**

*John Boland*

**3 - Optimal control of combined electrical and thermal storage with time-of-use electricity pricing**

*John Boland, Luigi Cirocco, Martin Belusko, Frank Bruno, Peter Pudney*

**4 - Generation of wind energy forecasts using Copulas**

*Carlo Lucheroni, John Boland, Julia Piantadosi*

**■ MA-47**

*Monday, 8:30-10:00 - Building WE, 1st floor, Room 115*

**Stochastic Models**

Stream: Stochastic Modeling and Simulation in Engineering, Management and Science

Chair: *Hiroshi Toyoizumi*

Chair: *Katsunori Ano*

**1 - Multi-Information Source Optimization with General Model Discrepancies**

*Matthias Poloczek, Jialei Wang, Peter Frazier*

**2 - Optimal pitching order for Baseball.**

*Takehiro Takano, Hisashi Muto, Katsunori Ano*

**3 - Simulation of Information Spread in Complex Network**

*Seiichi Tani, Yoshinori Iida, Ryuta Maruyama, Hiroshi Toyoizumi*

**4 - Effective Propagation of Information on Social Media**

*Hiroshi Toyoizumi*

**■ MA-51**

*Monday, 8:30-10:00 - Building PA, Room D*

**Complementarity Problems, Variational Inequalities and Equilibrium**

Stream: Mathematical Programming

Chair: *Sandor Zoltan Nemeth*

**1 - In Quest of Good Cones**

*Roman Sznajder*

**2 - Proximal Extrapolated Gradient Methods for Variational Inequalities**

*Yura Malitsky*

**3 - Pursuing Cones, Convex Sets and Mappings with Good Order Preserving Properties**

*Sandor Zoltan Nemeth*

**4 - Consistent Conjectures Are Optimal Cournot-Nash Strategies in the Meta-Game**

*Mariel Adriana Leal-Coronado, Vyacheslav Kalashnikov, Francesc López-Ramos*

**■ MA-53**

*Monday, 8:30-10:00 - Building PA, Room A*

**Additional Educational Activities for OR**

Stream: Initiatives for OR Education

Chair: *Ariela Sofer*

**1 - Early Detection of University Students in Potential Difficulty**

*Anne-Sophie Hoffait, Michaël Schyns*

**2 - Improving the Flow of of Graduate Students of the Engineering Course at the Federal Fluminense University through a Simulation Analysis**

*Christian Vargas, Gabriela Aiex Teixeira, Lidia Angulo-Meza, José Rodrigues Farias Filho, Cecilia Toledo Hernandez, Mayara Rodrigues Fernandes*

**3 - Preparing OR Students for the World of Big Data**

*Ariela Sofer, Steven Charbonneau, Jie Xu*

**■ MA-54**

*Monday, 8:30-10:00 - Building PA, Room B*

**Projection methods in optimization problems 1**

Stream: Convex Optimization

Chair: *Simeon Reich*

Chair: *Rafal Zalas*

Chair: *Pál Burai*

**1 - Convergence rates for projection algorithms with convex semi-algebraic constraints**

*Matthew Tam, Jon Borwein, Guoyin Li*

**2 - On strongly convex functions of higher order**

*Attila Gilanyi, Nelson Merentes, Kazimierz Nikodem, Zsolt Pales*

**3 - On recent development on linear convergence of alternating projections**

*Hieu Thao Nguyen, Russell Luke*

**■ MA-56**

*Monday, 8:30-10:00 - Building CW, 1st floor, Room 122*

**European O.R. Practitioner Network: Founding Meeting**

Stream: Workshops and roundtable

Chair: *Richard Eglese*

Chair: *Josef Kallrath*

**1 - European O.R. Practitioner Network: Founding Meeting**

*Ruth Kaufman, Josef Kallrath*

## Monday, 10:30-12:00

### ■ MB-01

Monday, 10:30-12:00 - Building CW, AULA MAGNA

#### Keynote Mauricio Resende

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Inês Marques

- 1 - **Logistics Optimization at Amazon: Big Data & Operational Research in Action**  
*Mauricio Resende*

### ■ MB-02

Monday, 10:30-12:00 - Building CW, 1st floor, Room 7

#### Multiobjective Optimization in Business Analytics

Stream: Evolutionary Multiobjective Optimization

Chair: Yu-Wang Chen

Chair: Julia Handl

Chair: Richard Allmendinger

- 1 - **Multi-Objective Formulations for Robust Optimization**  
*Juan Esteban Diaz, Julia Handl, Dong-Ling Xu*
- 2 - **Production Scheduling of a Multi-Product Biopharmaceutical Facility Using a Genetic Algorithm**  
*Karolis Jankauskas, Lazaros Papageorgiou, Suzanne Farid*
- 3 - **Management of a Large Proportion of Missing Data for Scientific Inference on the Basis of the Evidential Reasoning Rule**  
*Huaying Zhu, Jian-Bo Yang, Dong-Ling Xu, Cong Xu*
- 4 - **Modelling and Analysis of Hub-and-Spoke Networks with Random Hub Failure**  
*Nader Azizi*

### ■ MB-03

Monday, 10:30-12:00 - Building CW, 1st floor, Room 13

#### MADM Application 2

Stream: Multiple Criteria Decision Analysis

Chair: Jung-Ho Lu

- 1 - **A consensus process for group multiple criteria decision making with different types of decision information**  
*Chen-Tung Chen, Wei-Zhan Hung, Hui-Ling Cheng, Kai-Yi Chang*
- 2 - **Creating a Museum Culture Products Purchasing Evaluation Model for Customers by Using DEMATEL Technique**  
*Chin-Tsai Lin, Jung-Ho Lu, Sih-Wun Wang*

- 3 - **Wearable Devices and Health Accessing Indices for Determining Dynamic Insurance Rate**  
*Wen-Tsung Wu, Chie-bein Chen, Hsin-Hung Lin*

- 4 - **Multi-Realm Communications within Online Brand Communities**  
*Pei-Ling Hsieh*

### ■ MB-05

Monday, 10:30-12:00 - Building CW, 1st floor, Room 8

#### Multiobjective Optimization in Supply Chain Management and Logistics 2

Stream: Multiobjective Optimization

Chair: Sandra Huber

- 1 - **Maintenance Modelling for a System Equipped on Ship**  
*Tomohiro Kitagawa, Tetsushi Yuge, Shigeru Yanagi*
- 2 - **A Multi-objective Model for Preventing and Responding to Attacks on Interurban Transportation Networks**  
*Ramon Auad, Rajan Batta*
- 3 - **Solving Biobjective Minimum Cost Network Flow Problems**  
*Andrea Raith, Antonio Sedeño-Noda*

### ■ MB-06

Monday, 10:30-12:00 - Building CW, ground floor, Room 2

#### MCDA and Environmental Management 1

Stream: Multiple Criteria Decision Aiding

Chair: Antonio Boggia

Chair: Luisa Paolotti

Chair: Lucia Rocchi

- 1 - **Highways roadside vegetation sustainable management: an application using SMAA**  
*Lucia Rocchi, Eleonora Mariano, David Grohmann, Francesca Giugliarelli, Irene Petrosillo, Angelo Frascarelli*
- 2 - **The model GeoUmbriaSUIT for territorial sustainability assessment: an application to Italian and Spanish case studies**  
*Luisa Paolotti, Antonio Boggia, Asuncion Maria Agullo Torres, Francisco Jose Del Campo Gomis*
- 3 - **Sustainable multipurpose strategies for farms conciliating economic and environmental objectives**  
*Filippo Fiume Fagioli, Luisa Paolotti, Antonio Boggia*
- 4 - **Multi-Criteria Analysis of the Impact of Ownership Structure on Firm Performance in Recycling Industry**  
*Jelena Stankovic, Marija Dzunic, Vesna Jankovic-Milic, Zeljko Dzunic, Milivoje Pesic*

## ■ MB-07

Monday, 10:30-12:00 - Building CW, 1st floor, Room 123

### Memorial Session - in honour of Rolfe Tomlinson and Maurice Shutler

Stream: Memorial Session

Chair: Graham Rand

Chair: *Jakob Krarup*

#### 1 - Honouring Rolfe Tomlinson and Maurice Shutler

*Graham Rand, Jakob Krarup, Jakob Krarup*

## ■ MB-08

Monday, 10:30-12:00 - Building CW, 1st floor, Room 9

### Complex preference learning in MCDA 3

Stream: Multiple Criteria Decision Aiding

Chair: Salvatore Corrente

#### 1 - Applying MCHP, ROR and the SMAA methodology to the ELECTRE III method with interaction between criteria

*Salvatore Corrente, José Rui Figueira, Salvatore Greco, Roman Slowinski*

#### 2 - The ranking of Polish research institutions based on the distance measure function in the value space

*Piotr Zielniewicz*

#### 3 - Multi-criteria repair/recovery solutions for territory assignment problem

*Oumaima Khaled, Michel Minoux, Vincent Mousseau, Xavier Ceugniet*

#### 4 - Dominance based Monte-Carlo algorithm for multi-criteria ordinal classification

*Tom Denat, Meltem Ozturk*

## ■ MB-09

Monday, 10:30-12:00 - Building CW, 1st floor, Room 12

### OR Applications in Industry

Stream: OR Applications in Industry

Chair: Geir Hasle

#### 1 - Flexibility value in Transmission Expansion Planning in Colombia using Real Options.

*Alvin Henao Perez, Enzo Sauma, Angel Gonzalez*

#### 2 - Optimization for a Semi-Automated Warehouse

*Ali Can Özcan, Bahar Yetis Kara, Ozlem Cavus, Tolga Dizdärer, Onur Altıntaş, Hakan Gultekin*

#### 3 - Applied OR at SINTEF

*Geir Hasle*

## ■ MB-10

Monday, 10:30-12:00 - Building CW, ground floor, Room 1

### Meet the Editors of EJOR

Stream: EURO Awards and Journals

Chair: Roman Slowinski

Chair: *Immanuel Bomze*

Chair: *Robert Dyson*

Chair: *José Fernando Oliveira*

Chair: *Ruud Teunter*

Chair: *Emanuele Borgonovo*

#### 1 - Some facts about the European Journal of Operational Research (EJOR)

*Roman Slowinski, Immanuel Bomze, Emanuele Borgonovo, Robert Dyson, José Fernando Oliveira, Ruud Teunter*

#### 2 - Competitive Food Supply Chain Networks with Application to Fresh Produce

*Anna Nagurney, Min Yu*

#### 3 - The Vessel Schedule Recovery Problem (VSRP) - A MIP model for handling disruptions in liner shipping

*David Pisinger, Berit Dangaard Brouer, Jakob Dirksen, Christian Edinger Munk Plum, Bo Vaaben*

## ■ MB-11

Monday, 10:30-12:00 - Building CW, 1st floor, Room 127

### Neural Networks and Applications

Stream: Fuzzy Optimization - Systems, Networks and Applications

Chair: Kiran Anwar

Chair: *Jun-Der Leu*

#### 1 - An Empirical Comparison of Different RBF Neural Network Training Algorithms for Classification

*Tiny Du Toit*

#### 2 - Plantar Pressure Identification and Differentiation Using an Artificial Neuromolecular System

*JongChen Chen*

#### 3 - Predicting the Direction of a Stock Index Using Artificial Neural Networks and Evidential Reasoning

*Dong-Ling Xu, Chen You*

#### 4 - Design and Development of a Heuristic Based Evaluation function for General Game Playing

*Kiran Anwar, Sobia Khalid, Sana Yousuf*

## ■ MB-12

Monday, 10:30-12:00 - Building CW, ground floor, Room 029

### Complexity in supply chains

Stream: Sustainable Supply Chains

Chair: Aleksander Banasik

#### 1 - Eco-efficient agri-food supply chains: dealing with uncertain model parameters

*Aleksander Banasik, Argyris Kanellopoulos, G.D.H. (Frits) Claassen, Jacqueline Bloemhof, Jack van der Vorst*

**2 - Designing a sustainable reverse network for recovery of WEEE using multi-objective optimization**

*Dennis Stindt, Petra Hutner, Jan-Philipp Jarmer, Christian Nuss, Axel Tuma*

**3 - Risk Analysis for a Synchro-modal Supply Chain**

*Denise Holfeld, Axel Simroth, Roberto Tadei*

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■ **MB-13**

*Monday, 10:30-12:00 - Building CW, ground floor, Room 3*

**VeRoLog: Rich VRPs - More than just routing vehicles**

Stream: Vehicle Routing and Logistics Optimization

Chair: *Werner Heid*

Chair: *Nitin Ahuja*

**1 - Workload Balancing in the Context of Multi-period Service Territory Design**

*Matthias Bender, Anne Meyer, Stefan Nickel*

**2 - Long-Haul Routing in Hub Network**

*Olli Bräysy, Birger Raa, Wout Dullaert*

**3 - The (Over) Zealous Snow Remover Problem**

*Kaj Holmberg*

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■ **MB-14**

*Monday, 10:30-12:00 - Building CW, 1st floor, Room 125*

**Heuristics for Combinatorial Problems**

Stream: Mixed-Integer Linear and Nonlinear Programming

Chair: *Luis Moreno*

**1 - An Adapted Tabu Search for the Mutually Exclusive Knapsack Sharing Problem**

*Abdelkader Sbihi*

**2 - Approximation of TSP Tours with a Restricted Set of Edges on Regular Grids**

*Isabella Hoffmann*

**3 - An Efficient Algorithm Using the Combination of Three Sequential Heuristic Rules for Solving the Traveling Salesman Problem**

*Luis Moreno, Javier Diaz*

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■ **MB-15**

*Monday, 10:30-12:00 - Building CW, 1st floor, Room 126*

**Quantitative Methods for the Analysis of Gas Markets**

Stream: Optimization of Gas Networks

Chair: *Gregor Zöttl*

**1 - Endogenizing long-term contracts in gas markets models**

*Abada Ibrahim, Andreas Ehrenmann, Yves Smeers*

**2 - A multilevel programming approach for gas market analysis**

*Lars Schewe, Veronika Grimm, Julia Grübel, Martin Schmidt, Gregor Zöttl*

**3 - What Short-term Market Design for Efficient Flexibility Management in Gas Systems?**

*Florian Perrotton*

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■ **MB-16**

*Monday, 10:30-12:00 - Building CW, 1st floor, Room 128*

**Robust Combinatorial Optimization II**

Stream: Discrete Optimization under Uncertainty

Chair: *Daniel Schmidt*

**1 - Process Scheduling via Adjustable Robust Optimization under Decision-Dependent Uncertainty**

*Chrysanthos E. Gounaris, Nikolaos H. Lappas*

**2 - Stochastic Adaptive Processes**

*Marek Adamczyk*

**3 - The Multi-Objective Shortest Path Problem under Gamma-Uncertainty**

*Lisa Thom, Andrea Raith, Marie Schmidt, Anita Schöbel*

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■ **MB-17**

*Monday, 10:30-12:00 - Building CW, ground floor, Room 0210*

**Transportation 2**

Stream: Transportation

Chair: *Corrinne Luteyn*

**1 - A Study on Developing an Evaluation Model for Urban Logistics Providers**

*Chih-Feng Chou, Ying-Chin Ho*

**2 - Improving an Incomplete Road Network given a Budget Constraint**

*Corrinne Luteyn, Reginald Dewil, Pieter Vansteenwegen*

**3 - A model for Airline Operations Recovery with support for crew down-ranking**

*Grzegorz Siekaniec*

**4 - Is the optimal plan in airline operations planning really optimal in practice?**

*Aykan Akincilar, Ertan Güner*

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■ **MB-18**

*Monday, 10:30-12:00 - Building CW, ground floor, Room 023*

**Inventory Management 1**

Stream: Production and Operations Management

Chair: *Tim Lamballais Tessensohn*

- 1 - **Planning inventory transshipments in retail networks**  
*Thomas Archibald, Kevin Glazebrook, Sandra Rauscher*
- 2 - **Optimal inventory policy for items with price and time-dependent demand considering backlogged shortages**  
*Joaquín Sicilia-Rodríguez, Luis A. San-José-Nieto, David Alcaide Lopez de Pablo*
- 3 - **A novel approach to analyze inventory allocation decisions in Robotic Mobile Fulfillment Systems**  
*Tim Lamballais Tessensohn*

## ■ MB-19

Monday, 10:30-12:00 - Building CW, ground floor, Room 021

### Lot Sizing, Lot Scheduling and Related Problems 2

Stream: Lot Sizing, Lot Scheduling and Production Planning

Chair: Stéphane Dauzere-Peres

- 1 - **Two-echelon supply chain coordination mechanism under information asymmetry for a general number of type profiles**  
*Rutger Kerkkamp, Wilco van den Heuvel, Albert Wagelmans*
- 2 - **Worst-case analysis of relax-and-fix heuristics for some lot-sizing models**  
*Wilco van den Heuvel, Nabil Absi*
- 3 - **A Branch-and-Cut Algorithm Using Two-Period Relaxations for Big-Bucket Lot-Sizing**  
*Kerem Akartunali, Mahdi Doostmohammadi, Ioannis Fragkos*
- 4 - **Lot Sizing Models for Designing On-Line Electric Vehicle Systems**  
*Stéphane Dauzere-Peres, Young Jae Jang*

## ■ MB-20

Monday, 10:30-12:00 - Building CW, ground floor, Room 022

### EWGLA: Location

Stream: Location

Chair: Andreas Klose

- 1 - **Location Theory in the Phylogenetic Tree Space**  
*Marco Botte, Anita Schöbel*
- 2 - **Application of tropical optimization techniques to the solution of location problems**  
*Nikolai Krivulin*
- 3 - **A comparison of algorithms for solving the capacitated facility location problem with convex production costs**  
*Andreas Klose*

## ■ MB-21

Monday, 10:30-12:00 - Building CW, ground floor, Room 025

### Robustness in public transport

Stream: Public Transportation

Chair: Pieter Vansteenwegen

- 1 - **Integrating robust timetabling in railway line planning**  
*Sofie Burggraeve, Simon Bull, Richard Lusby, Pieter Vansteenwegen*
- 2 - **Robust control strategy for minimising energy consumption of electric buses using cooperative ITS technology**  
*Giulio Giorgione, Francesco Viti, Marcin Seredynski*
- 3 - **An efficient heuristic for real-time train rescheduling and local rerouting**  
*Sofie Van Thielen, Francesco Corman, Pieter Vansteenwegen*

## ■ MB-22

Monday, 10:30-12:00 - Building CW, ground floor, Room 027

### Topics in Combinatorial Optimization

Stream: Combinatorial Optimization

Chair: Silvano Martello

Chair: Paolo Toth

- 1 - **Final point generalized intersection cuts**  
*Egon Balas, Aleksandr Kazachkov, Francois Margot*
- 2 - **Power of Preemption for Minimizing Total Completion Time on Uniform Parallel Machines**  
*Alan Soper, Leah Epstein, Asaf Levin, Vitaly Strusevich*
- 3 - **Multi-Depot Fleet Dimensioning for Seasonal Stochastic Demand**  
*Marcus Poggi, Rafael Martinelli*

## ■ MB-23

Monday, 10:30-12:00 - Building CW, ground floor, Room 028

### Wireless Sensor Networks

Stream: Graphs and Networks

Chair: Reinhardt Euler

Chair: Ahcene Bounceur

- 1 - **Composition of Graphs and the Weakly Connected Independent Set Polytope**  
*Fatiha Bendali, Jean Mailfert*
- 2 - **A New Polyhedral Approach for the Minimum Energy Symmetric Network Connectivity Problem**  
*Jean Mailfert, Mourad Baiou, Fatiha Bendali, Salsabil Grouche*
- 3 - **Finding the Boundary Nodes of a Wireless Sensor Network Without Conditions on the Starting Node**  
*Ahcene Bounceur, Madani Bezoui, Reinhardt Euler, Marc Sevaux*

**4 - Novel Approach for Routing in Wireless Sensor Networks**

*Abdelmalek Boudries, Amad Mourad, Rabah Kassa*

■ **MB-24**

*Monday, 10:30-12:00 - Building BM, 1st floor, Room 119*

**Defence and Security 2**

Stream: Defence and Security

Chair: *Ana Isabel Barros*

**1 - ISR Security Planning**

*Axel Bloemen, Ana Isabel Barros, Dennis Huisman, Martin van Meerkerk*

**2 - Flight Planning for Unmanned Aerial Vehicles**

*Armin Fügenschuh*

**3 - Simultaneously Determining Ingress/Egress Points and Time Allocations for UAV Grid Routing**

*Rajan Batta, Michael Moskal II*

**4 - Optimal Path Planning with Minimum Number of UAVs by Using Genetic Algorithm**

*Ali Seyis, Yusuf Karacin, Omer Ozkan*

■ **MB-25**

*Monday, 10:30-12:00 - Building BM, ground floor, Room 19*

**Behavioural Issues in Decision Analysis**

Stream: Behavioural Operational Research

Chair: *Gilberto Montibeller*

Chair: *Detlof von Winterfeldt*

**1 - Innovative public decision making assisted by design theory: is it possible?**

*Irene Pluchinotta, Akin Kazakci, Alexis Tsoukias, Giovanna Fancello*

**2 - Debiasing Overconfidence**

*Valentina Ferretti, Sule Guney, Gilberto Montibeller, Detlof von Winterfeldt*

**3 - Combining Methods for Problem Structuring and Multicriteria Decision Analysis - a review of practice and reflections on behavioural implications**

*Valerie Belton, Mika Marttunen, Judit Lienert*

**4 - Bayes and Prejudice**

*Detlof von Winterfeldt*

■ **MB-26**

*Monday, 10:30-12:00 - Building BM, 1st floor, Room 109D*

**Dynamical models in sustainable development 2**

Stream: Dynamical Models in Sustainable Development

Chair: *Naoum Tsolakis*

**1 - Using Systems Thinking Methodology to Support SME Transition to Circular Economy**

*Toni Burrowes-Cromwell, Alberto Paucar-Caceres*

**2 - Monte-Carlo Simulations for Risk Analysis Systems using Bowtie Models**

*Ionut Jacob, Alex Apostolou, Stephan Bettermann*

**3 - The impact on the taxi industry of improved access to a city airport**

*John Hearne, Solmaz Jahed Shiran*

**4 - Food Security, Smallholdings and Short Food Supply Chains in the Developed World: A System Dynamics Framework for a Sustainable Future**

*Naoum Tsolakis*

■ **MB-27**

*Monday, 10:30-12:00 - Building BM, ground floor, Room 20*

**Markov Decision Processes and Game Theory**

Stream: Dynamical Systems and Mathematical Modelling in OR

Chair: *Masayuki Horiguchi*

Chair: *Katsunori Ano*

**1 - Impulse control of piecewise deterministic processes**

*Alizée Geeraert, Benoîte de Saporta, Francois Dufour*

**2 - Optimal stopping model with unknown transition probabilities**

*Masayuki Horiguchi, Alexei Piunovskiy*

**3 - Mutually Dependent One-stage Decision Processes**

*Toshiharu Fujita*

**4 - Comparing Performance Based and Warranty Contract**

*Yasushi Masuda, Haruhiko Miho*

■ **MB-29**

*Monday, 10:30-12:00 - Building BM, ground floor, Room 7*

**Health Care Emergency Management**

Stream: Health Care Emergency Management

Chair: *Patrick Soriano*

Chair: *Vahid Eghbal Akhlaghi*

Chair: *Gerhard-Wilhelm Weber*

**1 - Using Simulation to Analyze Patient Flow at a Hospital Emergency Department**

*Yong-Hong Kuo, Janny Leung, Colin Graham*

**2 - Predicting Patient Flow in a Paediatric Intensive Care Unit**

*Sally Brailsford*

**3 - Data Mining-Optimization Model Improves Efficiency in Emergency Department**

*Kalyan Pasupathy, Mustafa Sir, David Nestler, Thomas Hellmich*

**■ MB-30**

*Monday, 10:30-12:00 - Building BM, 1st floor, Room 110*

**System Dynamics Session 2**

Stream: System Dynamics Modeling and Simulation

Chair: David Wheat

**1 - The Dynamics of Global Offshore Oil Production**

*Onur Özgün, Bent Erik Bakken*

**2 - Mutual Impact of Monetary and Fiscal Policies: A System Dynamics Model**

*Pervin Dadashova*

**3 - Combining System Dynamics and Machine Learning for Crisis Management in Insurance Companies**

*Anton Lytvyn*

**4 - Dynamic Input-Output Modeling of North Dakota's Economy: A System Dynamics Approach**

*David Wheat*

**■ MB-31**

*Monday, 10:30-12:00 - Building BM, 1st floor, Room 111*

**Balance and Fairness in Tournaments**

Stream: OR in Sports

Chair: Frits Spieksma

**1 - Competitive Intensity and Quality Maximizing Seedings in Knock-out Tournaments**

*Dmitry Dagaev, Alex Suzdaltsev*

**2 - Assigning Youth Football Teams to Leagues**

*Túlio Toffolo, Jan Christiaens, Frits Spieksma, Greet Vanden Berghe*

**3 - The Circle Method Generates Schedules with Maximum Carry-over**

*Dries Goossens, Erik Lambrechts, Annette Ficker, Frits Spieksma*

**■ MB-33**

*Monday, 10:30-12:00 - Building BM, 1st floor, Room 113*

**Emerging Applications of Data Mining and Computational Statistics 2**

Stream: Computational Statistics

Chair: Pakize Taylan

Chair: *Gerhard-Wilhelm Weber*

Chair: *Olga Kurasova*

**1 - An Application Study to Nonparametric Logistic Regression Based on GAM**

*Pakize Taylan*

**2 - Artificial Neural Networks for Massive Data Visualization**

*Olga Kurasova, Viktor Medvedev, Gintautas Dzemyda*

**3 - Decision Optimization: Combinatorial Optimization for Business Analysts**

*Sebastien Lannez, Susanne Heipcke, Zsolt Csizmadia*

**4 - Region-based image retrieval and analysis with use of scalable boundary-skeleton model**

*Ivan Reyer, Ksenia Zhukova*

**■ MB-34**

*Monday, 10:30-12:00 - Building BM, 1st floor, Room 116*

**Stochastic Optimisation in Supply Chain Management 2**

Stream: Supply Chain Scheduling and Logistics

Chair: Roberto Rossi

**1 - Dealing with Uncertainty in Vessel Crew Scheduling**

*Seda Sucu, Kerem Akartunali, Robert van der Meer*

**2 - An Approximate Dynamic Programming Approach for Stochastic Time-Dependent Capacitated Vehicle Routing Problems**

*Mustafa Cimen, Mehmet Soysal*

**3 - Hierarchical Control Model for Several Stochastic Network Projects**

*Aharon Gonik*

**4 - An MILP model for computing (s, S) policies with stochastic demand**

*Mengyuan Xiang, Roberto Rossi, Belen Martin-Barragan*

**■ MB-35**

*Monday, 10:30-12:00 - Building BM, ground floor, Room 17*

**RNA 2D structure**

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Piotr Lukasiak

Chair: *Maciej Antczak*

**1 - Algorithms for Predicting RNA Secondary Structure: Making the Most of an Ill-Conditioned Problem**

*Michael Zuker*

**2 - Non-canonical RNA Base Pair Predictor for Even Imperfect and Incomplete Models**

*Jacek Smietanski*

- 3 - Integrating Probing Data in RNA Secondary Structure Definition Using Pareto Optimization**  
*Cedric Saule, Stefan Janssen, Robert Giegerich*

## ■ MB-36

Monday, 10:30-12:00 - Building BM, ground floor, Room 18

### Scheduling in Healthcare 1

Stream: Scheduling in Healthcare

Chair: Maria Eugénia Captivo

- 1 - Integrated Surgery and Recovery Ward Planning with Surgical Teams Timetabling**  
*Edilson Arruda, Cecília Siqueira, Laura Bahiense*
- 2 - Sharing Operating Rooms Between Elective and Non-elective Surgeries: An Online Optimization Approach**  
*Davide Duma, Roberto Aringhieri*
- 3 - Operating Room Scheduling Models: Where Does the Shoe Pinch?**  
*Carla Van Riet, Michael Samudra, Erik Demeulemeester*
- 4 - Heuristics for Different Perspectives of a Surgical Case Assignment Problem**  
*Maria Eugénia Captivo, Catarina Mateus, Inês Marques*

## ■ MB-38

Monday, 10:30-12:00 - Building BM, 1st floor, Room 109M

### Optimization for Sustainable Development Related to Industries 2

Stream: Optimization for Sustainable Development

Chair: Herman Mawengkang

Chair: Gerhard-Wilhelm Weber

Chair: Sadia Samar Ali

- 1 - Modeling a Vehicle Routing Problem for Catering Service Delivery with Heterogeneous Fleet**  
*Devy Mathelinea*
- 2 - A Deterministic Optimization Model for Integrated Production - Distribution Planning of Fish Processed Products**  
*Intan Syahrini, Herman Mawengkang*
- 3 - A Decision Model of Hospital Capacity Management Problem under Uncertainty**  
*Suryati Sitepu*

## ■ MB-39

Monday, 10:30-12:00 - Building WE, 1st floor, Room 107

### Risk measurement and management

Stream: Financial and Commodities Modeling

Chair: Roy Cerqueti

- 1 - Allocation of risk capital in a cost cooperative game induced by a modified Expected Shortfall**  
*Arsen Palestini, Roy Cerqueti, Mauro Bernardi*

- 2 - Risk Seeking or Risk aversion? Phenomenology and Perception**

*Mario Maggi, Caterina Lucarelli, Pierpaolo Uberti*

- 3 - A nonlinear dynamic model for credit risk**

*Viviana Fanelli, Lucia Maddalena, Silvana Musti*

- 4 - Bayesian Portfolio Management in a Skew Student-t Dynamic Semi-Parametric Environment**

*Mauro Bernardi*

## ■ MB-40

Monday, 10:30-12:00 - Building WE, 1st floor, Room 108

### Pricing under incomplete markets

Stream: Financial Engineering and Optimization

Chair: Firdevs Ulus

- 1 - How Fundamental is the Trinomial Model for European Option Pricing. A New Methodological Approach**  
*Yann Braouezec*
- 2 - Utility Indifference Pricing Under Incomplete Preferences**  
*Firdevs Ulus*
- 3 - Diversification of Portfolio Tail Risk**  
*Qi Wu*
- 4 - Interest Rate Modelling with Stochastic Basis Spread**  
*Cheuk Hang Leung, Qi Wu*

## ■ MB-41

Monday, 10:30-12:00 - Building WE, 2nd floor, Room 209

### Financial Mathematics 2

Stream: Financial Mathematics and OR

Chair: Masamitsu Ohnishi

Chair: Katsunori Ano

- 1 - Generalized Multilevel Monte-Carlo method using a few discretization techniques**  
*Hitoshi Inui, Katsunori Ano*
- 2 - Optimal stopping boundary for American put option on Jump diffusion process by Multilevel Monte-Carlo method**  
*Yuto Shimizu, Kengo Sumimoto, Katsunori Ano*
- 3 - The Dynamic Valuation of Callable Contingent Claims with Partially Observable Regime Switch**  
*Kimitoshi Sato, Katsushige Sawaki*

- 4 - **Equilibrium point on standard normal distribution between expected growth return and its risk**  
*Shingo Nakanishi*

## ■ MB-42

Monday, 10:30-12:00 - Building WE, 1st floor, Room 120

### Game Solutions and Structures

Stream: Game Theory, Solutions and Structures  
Chair: Marcin Malawski

- 1 - **On the Axiomatization of Stability in Organizations**  
*Stéphane Gonzalez*
- 2 - **Discounted Tree Solutions**  
*Philippe Solal, Sylvain Béal, Eric Rémila*
- 3 - **The SD-prenucleolus and the SD-prekernel**  
*Ilya Katsev, Javier Arin*
- 4 - **Associations of Players in Graph-Restricted Games**  
*Marcin Malawski*

## ■ MB-43

Monday, 10:30-12:00 - Building WE, ground floor, Room 18

### Energy Storage and Renewables

Stream: Stochastic Models in Renewably Generated Electricity  
Chair: Benjamin Böcker  
Chair: Christoph Weber

- 1 - **Stochastic Storage Valuation Considering Aging Processes (Lithium-ion)**  
*Benjamin Böcker*
- 2 - **Uncertainties in Optimized Scheduling of Electric Vehicle Charging**  
*Zongfei Wang, Patrick Jochem, Wolf Fichtner*
- 3 - **An Agent-based Model for Investment Decision in Electricity Markets under Uncertainty**  
*Andreas Bublitz, Dogan Keles, Wolf Fichtner*

## ■ MB-47

Monday, 10:30-12:00 - Building WE, 1st floor, Room 115

### Stochastic Modeling and Simulation in Engineering, Management and Science 1

Stream: Stochastic Modeling and Simulation in Engineering, Management and Science  
Chair: Semih Kuter

- 1 - **Analysis of Automated Transfer Line with Discrete Phase Type Distribution of Repair Time and Its Application**  
*Yang Woo Shin, Dug Hee Moon*

- 2 - **Mixed Logit-based Stochastic Dynamic User Equilibrium**  
*Hanns de la Fuente-Mella, Alexander Paz, Daniel Emaasit*

- 3 - **Discounted Semi-Markov Decision Processes with Possibly Accumulation Points: A Service Rate Control Problem with Impatient Customers**  
*Bora Cekyay*

## ■ MB-48

Monday, 10:30-12:00 - Building WE, 1st floor, Room 116

### Simulation

Stream: Simulation in Management Accounting and Management Control  
Chair: Stephan Leitner  
Chair: Friederike Wall

- 1 - **Effects of forecasting abilities in a transfer pricing model**  
*Arno Karrer*
- 2 - **Biased Innovation Investment**  
*Jingbin He, Bo Liu*

## ■ MB-51

Monday, 10:30-12:00 - Building PA, Room D

### Advances in Multi-Objective Programming Methods and Applications

Stream: Mathematical Programming  
Chair: Tunjo Perić

- 1 - **Vendor Selection and Supply Quotas Determination by using Analytic Hierarchy Process (AHP) and a new Multi-Objective Programming Method**  
*Tunjo Perić, Zoran Babic*
- 2 - **An Application of Multiple-Objective Linear Programming Method for the the Distribution Problem Solving**  
*Jadranka Kraljevic*
- 3 - **Three Different Approaches for Multiple Objective Fractional Linear Programming Problem Solving**  
*Maid Omerović, Tunjo Perić*
- 4 - **A New Linearization Approach for Solving Multi-Objective Linear Fractional Programming Problems by Goal Programming**  
*Sead Resic*

## ■ MB-52

Monday, 10:30-12:00 - Building PA, Room C

### Continuous Optimization, Convexity and Robustness

Stream: Convex, Semi-Infinite and Semidefinite Optimization  
Chair: Cesar Beltran-Royo

- 1 - **Two-Stage Stochastic Linear Programming: The Conditional Scenario Approach**  
*Cesar Beltran-Royo*
- 2 - **Adjustable Robust Optimization approach to optimize discounts for a multi-period supply chain problem under demand uncertainty**  
*Viktoryia Buhayenko, Dick den Hertog*
- 3 - **Piecewise Linear Multicriteria Programs**  
*Xiaoqi Yang*

## ■ MB-53

Monday, 10:30-12:00 - Building PA, Room A

### OR in Regular Study Programs

Stream: Initiatives for OR Education

Chair: Kseniia Ilchenko

- 1 - **Implementing Croatian Business Best Practices into OR Education Process**  
*Kristina Soric*
- 2 - **Integration of OR-based courses in Bach. and MSc. Management programs**  
*Joao Miranda*
- 3 - **OR Courses for the Interdisciplinary Master Program in Project Management**  
*Kseniia Ilchenko, Olga Nazarenko*
- 4 - **The process and value of a mixed method design in exploring assessment in the EFL writing at university level in the Libya context**  
*Imad Waragh*

## ■ MB-54

Monday, 10:30-12:00 - Building PA, Room B

### Projection methods in optimization problems 2

Stream: Convex Optimization

Chair: Simeon Reich

Chair: Rafal Zalas

- 1 - **Zero-convexity, perturbation resilience, and subgradient projections for feasibility-seeking methods**  
*Daniel Reem, Yair Censor*
- 2 - **Projection Methods and Constraint Shape**  
*John Chinneck*
- 3 - **The variable metric forward-backward splitting algorithm under mild differentiability assumptions and line searches**  
*Saverio Salzo*
- 4 - **Weak, strong and linear convergence of a double-layer fixed point algorithm**  
*Rafal Zalas*

## Monday, 12:30-14:00

### ■ MC-01

Monday, 12:30-14:00 - Building CW, AULA MAGNA

### Keynote Alexander Shapiro

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Mustafa Pinar

- 1 - **Risk Averse and Distributionally Robust Multistage Stochastic Optimization**  
*Alexander Shapiro*

### ■ MC-02

Monday, 12:30-14:00 - Building CW, 1st floor, Room 7

### Algorithmic Components of Evolutionary Multi-objective Optimization

Stream: Evolutionary Multiobjective Optimization

Chair: Manuel López-Ibáñez

- 1 - **Evolutionary Multi-objective Optimization with the Shark Library**  
*Tobias Glasmachers*
- 2 - **10 years of experience developing the jMetal framework: current status and future perspective**  
*Antonio J. Nebro, Juan J. Durillo*
- 3 - **PaGMO: Parallel Global Multiobjective Optimizer**  
*Marcus Mörtens, Krzysztof Nowak, Dario Izzo*
- 4 - **How to Design a New State-of-the-Art Multi-objective Evolutionary Algorithm Every Weekend**  
*Manuel López-Ibáñez*

### ■ MC-03

Monday, 12:30-14:00 - Building CW, 1st floor, Room 13

### MADM Application 3

Stream: Multiple Criteria Decision Analysis

Chair: Pin-Ju Juan

- 1 - **Applying AHP Model for Selecting the Optimal Business Manager of Integrated Marketing Communications Companies**  
*Pi-Fang Hsu, En-Ping Lin*
- 2 - **The Novel Blue Ocean in Perspective of Tourism: Assessment regarding the Strategic Alliance of International Cruise Supplier and Cross-strait Travel Agency**  
*Wen-Yu Chen*
- 3 - **Development key performance indicators of Hostels**  
*Pin-Ju Juan, Peng-Yu Juan*

- 4 - **Developing the data envelopment analysis model with incorporating the workplace injury to measure the safety performance of business operations**  
*Li-Ting Yeh*

## ■ MC-04

Monday, 12:30-14:00 - Building CW, ground floor, Room 6

### OR and CO in Web Engineering 1

Stream: Operations Research and Combinatorial Optimization in Web Engineering

Chair: *Maciej Drozdowski*

- 1 - **Analyzing Web-Apps in Evolving Environments**  
*Joaquim Gabarro, Jorge Castro, Maria Serna, Alan Stewart*
- 2 - **Scheduling Web Data Gathering to Minimize Memory Usage**  
*Joanna Berlińska*
- 3 - **Algorithms for Budgeted Internet Shopping Optimization Problem (B-ISOP)**  
*Jakub Marszałkowski, Mateusz Ledzianowski*
- 4 - **A note how to enhance and optimize Cloud Brokers**  
*Jedrzej Musial*

## ■ MC-05

Monday, 12:30-14:00 - Building CW, 1st floor, Room 8

### Preferences and Problem Formulation in Multicriteria Optimization 1

Stream: Multiobjective Optimization

Chair: *Iryna Yevseyeva*

Chair: *Michael Emmerich*

- 1 - **A Co-evolutionary Algorithm for Green Inventory Routing Problem**  
*Zhiwei Yang, Kaifeng Yang, Michael Emmerich, Thomas Bäck*
- 2 - **Objective Functions in Earth Observing Satellite Mission Planning and their Interdependence**  
*Longmei Li, Feng Yao, Michael Emmerich, Ning Jing*
- 3 - **Computing Pareto Fronts of Implicitly Defined Functions**  
*Michael Emmerich, Michal Sklyar*
- 4 - **An Interactive Evolutionary Approach to Multi-objective Feature Selection**  
*Murat Koksalan, Muberra Ozmen, Gulsah Karakaya*

## ■ MC-06

Monday, 12:30-14:00 - Building CW, ground floor, Room 2

### Urban and territorial planning in MCDA 1

Stream: Multiple Criteria Decision Aiding

Chair: *Isabella Lami*

Chair: *Marta Bottero*

- 1 - **Supporting the Definition of Sustainable Smart District using a MACBETH approach**

*Patrizia Lombardi, Francesca Abastante, Isabella Lami, Jacopo Toniolo*

- 2 - **An application of the NAROR for the management of a real estate portfolio**

*Isabella Lami, Silvia Angilella, Marta Bottero, Salvatore Corrente, Valentina Ferretti, Salvatore Greco*

- 3 - **Urban processes assessment for the Metropolitan Area of Naples (Italy)**

*Pasquale De Toro, Alfredo Franciosa*

- 4 - **Multi-criteria Analysis as a Tool to Cope with Asymmetric Information. An Application to the Hospitality Sector**

*Klaas De Brucker, Inge Meesters*

## ■ MC-07

Monday, 12:30-14:00 - Building CW, 1st floor, Room 123

### EURO Excellence in Practice, part I

Stream: EURO Awards and Journals

Chair: *Ton de Kok*

- 1 - **Scheduling Scientific Experiments for Comet Exploration on the Rosetta/Philae Mission**

*Christian Artigues, Emmanuel Hebrard, Pierre Lopez, Gilles Simonin*

- 2 - **Duty and Workstation Rostering Considering Preferences and Fairness: A Case Study at a Department of Anaesthesiology**

*Jens Brunner, Andreas Fügener, Armin Podtschaske*

- 3 - **A Novel Framework of Simulation and Optimisation for Offshore Wind Farm Installation Logistics at SSE and SPR**

*Kerem Akartunali, Euan Barlow, Matthew Revie, Diclehan Tezcaner Ozturk, Evangelos Boulougouris, Sandy Day*

## ■ MC-08

Monday, 12:30-14:00 - Building CW, 1st floor, Room 9

### Complex preference learning in MCDA 4

Stream: Multiple Criteria Decision Aiding

Chair: *Andrej Bregar*

- 1 - **Indirect derivation of criteria weights from veto related information: a generalised approach, its characteristics and applications**

*Andrej Bregar*

- 2 - **On the normalization of interval weights and fuzzy weights**

*Ondřej Pavlačka*

**3 - A Hybrid Linear Programming and Minimax Reference Point Approach for Weight Assignment in MADM**

Jian-Bo Yang, Guoliang Yang, Dong-Ling Xu, Mohammad Khoveyni

**4 - PROMETHEE-GAIA Approaches for Multi-Criteria Inventory Classification and Warehouse Management**

Biol Eelevli, Ali Dinler

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■ **MC-09**

Monday, 12:30-14:00 - Building CW, 1st floor, Room 12

**Application of OR for Embedded Systems**

Stream: OR Applications in Industry

Chair: Lilia Zaourar

**1 - Manufacturing of vias using DSA Technology: an integer programming approach**

Dehia Ait-Ferhat, J. Andres Torres, Vincent Juliard, Gautier Stauffer

**2 - Application management on a heterogeneous microserver system**

Lilia Zaourar, Jean Marc Philippe

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■ **MC-10**

Monday, 12:30-14:00 - Building CW, ground floor, Room 1

**EthOR Award - Applicants' Presentations and Award Ceremony**

Stream: OR and Ethics

Chair: Pierre Kunsch

Chair: Erik Kropat

Chair: Dorien DeTombe

Chair: Gerhard-Wilhelm Weber

Chair: Cathal Brugha

**1 - Development of a Markovian Decision Model (MDM) for Collection Centers for disaster relief operations**

Irais Mora-Ochomogo

**2 - A New Contribution to Ethics and OR: Towards a More Ethical Journalism**

Duygu Onay-Coker

**3 - Exploring "cultural corruption" in financial organizations: A hybrid modelling approach**

Penka Petrova, Ross Kazakov

**4 - On the emergence of fairness norm via social networks: an experimental study**

Omar Rifki, Hirotaka Ono

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■ **MC-11**

Monday, 12:30-14:00 - Building CW, 1st floor, Room 127

**Discrete and Global Optimization 1**

Stream: Discrete and Global Optimization

Chair: Jan van Vuuren

**1 - Optimisation of radio transmitter locations in mobile telecommunication networks**

Thorsten Schmidt-Dumont, Jan van Vuuren

**2 - Decision support for the selection of water release strategies at open-air irrigation reservoirs**

Christiaan van der Walt, Jan van Vuuren

**3 - Simulating the Oviposition Site Selection Process of Eldana Saccharina Walker**

Brian van Vuuren, Linke Potgieter, Jan van Vuuren

**4 - Integer Programming Models for the Mid-term Production Planning of High-tech Low-volume Industries**

Joost de Kruijff, Cor Hurkens, Ton de Kok

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■ **MC-12**

Monday, 12:30-14:00 - Building CW, ground floor, Room 029

**VeRoLog: Selected transportation problems**

Stream: Vehicle Routing and Logistics Optimization

Chair: Frédéric Quesnel

**1 - A new branching heuristic for the air crew pairing problem**

Frédéric Quesnel, Francois Soumis, Guy Desaulniers

**2 - The locomotive assignment problem with periodic inspections: a case study**

Pawel Hanczar

**3 - A Biased Random-Key Genetic Algorithm for vehicle-reservation assignment in a car rental company**

José Fernando Oliveira, Beatriz Brito Oliveira, Ana Ribeiro, Maria Antónia Carravilla

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■ **MC-13**

Monday, 12:30-14:00 - Building CW, ground floor, Room 3

**VeRoLog: Green Routing**

Stream: Vehicle Routing and Logistics Optimization

Chair: Jorge E. Mendoza

**1 - Solving the Multi-Objective Shortest Path Problem**

Antoine Giret, Yannick Kergosien, Emmanuel Néron, Gaël Sauvanet

**2 - A matheuristic approach for solving the electric vehicle routing problem with time windows and fast recharges**

Merve Keskin, Bülent Çatay

**3 - Electric Traveling Salesman Problem with Time Windows**

Min Wen, Roberto Roberti

**4 - A comparative study of charging assumptions in electric vehicle routing problems**

*Jorge E. Mendoza, Alejandro Montoya, Christelle Guéret, Juan G. Villegas*

■ **MC-14**

*Monday, 12:30-14:00 - Building CW, 1st floor, Room 125*

**Valid inequalities and formulations**

Stream: Mixed-Integer Linear and Nonlinear Programming

Chair: Fabrizio Rossi

**1 - Valid Inequalities for SDP-Optimal Power Flow with Integer Variables**

*Bartosz Filipecki*

**2 - Time-indexed formulations for airport runway scheduling**

*Pasquale Avella, Maurizio Boccia, Carlo Mannino, Igor Vasiliev*

**3 - Use of 0,1/2 Chvátal-Gomory cuts in the closest 0-1 string problem**

*Claudio Arbib, Mara Servilio, Paolo Ventura*

**4 - Analysis of compact formulations for the stable set problem**

*Stefano Smriglio, Adam Letchford, Fabrizio Rossi*

■ **MC-15**

*Monday, 12:30-14:00 - Building CW, 1st floor, Room 126*

**Engineering Optimization 1**

Stream: Engineering Optimization

Chair: Wolfgang Achtziger

**1 - Modelling and Optimization of Progressive Lenses**

*Gloria Casanellas Penalver, Jordi Castro*

**2 - Optimal Design and Operation of District Heating Networks**

*Jessen Page*

**3 - On Relations of Classical Problem Formulations in Compliance Minimization and Maximization of Discrete/Discretized Mechanical Structures**

*Wolfgang Achtziger*

■ **MC-16**

*Monday, 12:30-14:00 - Building CW, 1st floor, Room 128*

**Robust Combinatorial Optimization III**

Stream: Discrete Optimization under Uncertainty

Chair: Fabio D Andreagiovanni

**1 - Robustifying Combined Heat-and-Power Operation using Affine Decision Rules**

*Nils Spiekermann, Stefano Coniglio, Arie Koster, Alexander Hein, Olaf Syben, Leonardo Taccari*

**2 - Multiband Robust Optimization for Optimal Energy Offering under Price Uncertainty**

*Fabio D Andreagiovanni, Giovanni Felici, Fabrizio Lacalandra*

**3 - Distributionally Robust Approaches to the Minimum Weighted Tree Reconstruction Problem**

*Cristina Requejo, Olga Oliveira, Michael Poss*

■ **MC-17**

*Monday, 12:30-14:00 - Building CW, ground floor, Room 0210*

**Traffic Analysis and Operation**

Stream: Transportation

Chair: Riccardo Rossi

Chair: *Tom Maertens*

**1 - Uniform Traffic Coordination in Arteries**

*Mariusz Kaczmarek*

**2 - Optimization of traffic counting point for the estimation of traffic demand using the flow capturing model**

*Yoichi Shimakawa, Hiroyuki Goto*

■ **MC-18**

*Monday, 12:30-14:00 - Building CW, ground floor, Room 023*

**Inventory Management 2**

Stream: Production and Operations Management

Chair: Leonardo Epstein

**1 - Optimal Times and Sizes of Purchases of Items for Rental Operations**

*Leonardo Epstein, Eduardo González-Császár*

**2 - An inventory model for perishable items having constant demand with time dependent holding cost**

*Sarbjit Singh*

**3 - The impact of the class division on the average order-picking times**

*Grzegorz Tarczynski*

■ **MC-19**

*Monday, 12:30-14:00 - Building CW, ground floor, Room 021*

**Lot Sizing, Lot Scheduling and Related Problems 3**

Stream: Lot Sizing, Lot Scheduling and Production Planning

Chair: Christian Almeder

**1 - A lot-sizing problem in a flow-shop system with various energy sources**

*Masmoudi Oussama, Alice Yalaoui, Yassine Ouazene, Farouk Yalaoui, Hicham Chehade*

**2 - Analysis of machine flexibility in lot sizing problems**

*Diego Fiorotto, Raf Jans, Silvio de Araujo*

**3 - An integrated Mixed-Integer Linear Programming approach to dynamic safety stock planning in the General Lot-sizing and Scheduling Problem**

*Stefan Minner, Steffen Klosterhalfen, Dariush Tavaghof-Gigloo*

**4 - Designing new decision rules for the capacitated lot sizing problem using Genetic Programming**

*Fanny Hein, Christian Almeder, Gonçalo Figueira, Bernardo Almada-Lobo*

■ **MC-20**

*Monday, 12:30-14:00 - Building CW, ground floor, Room 022*

**Location in transportation systems**

Stream: Location

Chair: Vladimir Marianov

**1 - Optimal location of charging infrastructure for electric and gas fuelled vehicles**

*Cristina Corchero, Oriol Serch, Sara Gonzalez-Villafranca*

**2 - Multi-period location of flow intercepting portable facilities of an ITS**

*Antonio Sforza, Claudio Sterle, Annunziata Esposito Amideo*

**3 - The maxisum and maximin-maxisum HAZMAT routing problems**

*Vladimir Marianov, Andrés Bronfman, Germán Paredes-Belmar, Armin Lüer-Villagra*

**4 - PPP motorway ventures - An optimization model to locate interchanges with social welfare and private profit objectives**

*Hugo Repolho, Antonio Antunes, Richard Church*

■ **MC-21**

*Monday, 12:30-14:00 - Building CW, ground floor, Room 025*

**Train shunting and service planning**

Stream: Public Transportation

Chair: Bob Huisman

**1 - A Constraint Programming approach to the rail fleet maintenance problem.**

*Diarmuid Grimes, Barry O'sullivan*

**2 - Robust Maintenance Location Routing for Train Units**

*Denise Tönissen, Joachim Arts, Max Shen*

**3 - Integrated Rolling Stock Planning for Suburban Passenger Train Services**

*Per Thorlacius*

**4 - A Divide and Conquer Approach to Interactively Solve High-Dimensional Problems**

*Daan van den Heuvel, Bob Huisman, Cees Witteveen*

■ **MC-22**

*Monday, 12:30-14:00 - Building CW, ground floor, Room 027*

**Multiobjective Vehicle Routing Problems**

Stream: Combinatorial Optimization

Chair: Herminia I. Calvete

Chair: Ibrahim H. Osman

**1 - Bi-objective Periodic Vehicle Routing Problem with Service Choice**

*Alfredo G. Hernandez-Diaz, Julian Molina, Ana Dolores López Sánchez*

**2 - A biobjective school bus routing problem**

*Herminia I. Calvete, Carmen Galé, Jose A. Iranzo, Paolo Toth*

**3 - A hybridisation of adaptive VNS and large neighbourhood search: Application to the vehicle routing problems**

*Said Salhi, Jeeu Fong Sze, Niaz Wassan*

■ **MC-23**

*Monday, 12:30-14:00 - Building CW, ground floor, Room 028*

**Selected Topics**

Stream: Graphs and Networks

Chair: Stephan Westphal

**1 - Multistage Scheduling with Selfish Machines**

*Michael Hopf, Clemens Thielen*

**2 - A Generalized Fractional Packing Framework and its Application to Network Flow Problems**

*Michael Holzhauser, Sven Krumke*

**3 - Approximation Algorithms for TSP with Pickup and Delivery**

*Stephan Westphal, Marco Bender, Joachim Schmidt*

**4 - The art of BBQ and applications to online colouring**

*Marc Demange, Martin Olsen*

■ **MC-24**

*Monday, 12:30-14:00 - Building BM, 1st floor, Room 119*

**Defence and Security 3**

Stream: Defence and Security

Chair: Ana Isabel Barros

**1 - Route Propagation Under Forecast Risk for Maritime Security Applications**

*Francois-Alex Bourque*

**2 - Stackelberg games: A comparison of MIP formulations and a border patrol application**

*Carlos Casorrán-Amilburu, Bernard Fortz, Martine Labbé, Fernando Ordonez, Victor Bucarey, Hugo Navarrete, Karla Rosas*

**3 - A Model for Joint Patrolling in Stackelberg Security Games**

Victor Bucarey, Fernando Ordonez, Carlos Casorrán-Amilburu

**4 - Learning from the Past: Analysing History to Support UK Defence Policy**

Rachael Walker, Tom Clarke

■ **MC-25**

Monday, 12:30-14:00 - Building BM, ground floor, Room 19

**Uncertainty, forecasting and policy**

Stream: Behavioural Operational Research

Chair: Devon Barrow

**1 - Improving Construction of Conditional Probability Tables for Ranked Nodes in Bayesian Networks**

Pekka Laitila, Kai Virtanen

**2 - Consumer behaviour and residential demand side flexibility - a calibration approach for electricity load profile modelling**

Valentin Bertsch, Valeria Di Cosmo, Wolf Fichtner, Marian Hayn

**3 - Investigating cognitive strategies used in time series decomposition via a think-aloud protocol analysis: Implications for time series forecasting**

Devon Barrow, Nikolaos Kourentzes

**4 - Experiments on Commitment and Priming in Supply Chain Decisions**

Murat Kaya, Ummuhan Akbay

■ **MC-26**

Monday, 12:30-14:00 - Building BM, 1st floor, Room 109D

**Dynamical Models in Sustainable Development 3**

Stream: Dynamical Models in Sustainable Development

Chair: Andreas Welling

**1 - A system dynamics model to assess the impact of stakeholder pressures and dynamic capabilities on sustainable supply chain management performance**

Tobias Rebs, Daniel Thiel, Marcus Brandenburg, Stefan Seuring

**2 - Trade liberalization and the environment: does "green equilibrium" exist?**

Kim Hang Pham Do

**3 - A System Dynamics Model for a Reverse Supply Chain with Competitive Collection**

Tiru Arthanari, Liu Yang

**4 - How to determine the optimal amount and reduction of governmental support**

Andreas Welling

■ **MC-27**

Monday, 12:30-14:00 - Building BM, ground floor, Room 20

**Dynamical Systems and Mathematical Modelling in OR**

Stream: Dynamical Systems and Mathematical Modelling in OR

Chair: Gerhard-Wilhelm Weber

Chair: Olabode Adewoye

Chair: Andreas Novak

**1 - On Generalization of Tanh Method and Its Application to Non-linear Partial Differential Equations**

Ali Hamidoglu

**2 - Decision Making in an Infinite Horizon for Large-Scale System**

Olabode Adewoye

**3 - Solution of an order batching problem by a new mathematical programming approach in pharmaceutical warehouse**

Furkan Yener, Harun Yazgan

**4 - Optimal Intelligence in an Asymmetric Lanchester Model**

Andreas Novak

■ **MC-30**

Monday, 12:30-14:00 - Building BM, 1st floor, Room 110

**System Dynamics Business Modelling. Workshop for Managers, Consultants and Students 1**

Stream: System Dynamics Modeling and Simulation

Chair: Kim Warren

**1 - System Dynamics Business Modelling. Workshop for Managers, Consultants and Students 1**

Kim Warren

■ **MC-31**

Monday, 12:30-14:00 - Building BM, 1st floor, Room 111

**Sport Scheduling and Strategy**

Stream: OR in Sports

Chair: Mario Guajardo

**1 - Search Space Connectivity in Sport Scheduling Problems**

Sebastián Urrutia, Tiago Januario, Dominique de Werra

**2 - First Computational Experiments with a Salesman Formulation of a Sport League Scheduling Problem**

Jörn Schönberger

**3 - On Symmetry, Breaks Within Double Rounds and the South American World Cup Qualifiers to Russia 2018**

Mario Guajardo, Guillermo Durán, Denis Saure

#### 4 - Serving Strategy in Tennis

*Yigal Gerchak, Marc Kilgour*

### ■ MC-33

Monday, 12:30-14:00 - Building BM, 1st floor, Room 113

#### Emerging Applications of Data Mining and Computational Statistics 3

Stream: Computational Statistics

Chair: *Pakize Taylan*

Chair: *Gerhard-Wilhelm Weber*

Chair: *Panos Pardalos*

##### 1 - Biomedical Informatics and Network Approaches in Neuroscience Research

*Panos Pardalos*

##### 2 - A Goal Programming Based Movie Recommendation in Linked Open Data Cloud

*Emrah İnan, Cemalettin Ozturk, Fatih Tekbacak*

##### 3 - Load Forecasting Using Multivariate Adaptive Regression Splines for Turkish Electricity System

*Gamze Nałçacı, Ayse Özmen, Gerhard-Wilhelm Weber, Omer Melih Gul*

##### 4 - The Case For Inliers

*Jeffry Savitz*

### ■ MC-34

Monday, 12:30-14:00 - Building BM, 1st floor, Room 116

#### Scheduling

Stream: Supply Chain Scheduling and Logistics

Chair: *Malgorzata Sterna*

##### 1 - Approximation Solution in Malleable Tasks Scheduling Problem

*Maciej Machowiak*

##### 2 - Scheduling Semiresumable Tasks on a Single Machine with Multiple Non-availability Intervals

*Jakub Olszak, Jakub Pietruczuk, Piotr Formanowicz*

##### 3 - Extended Signatures and their Applications to Time-Dependent Scheduling

*Stanislaw Gawiejnowicz, Wieslaw Kurc*

##### 4 - Online and Offline Late Work Scheduling on Parallel Machines

*Kateryna Czerniachowska, Jacek Blazewicz, Xin Chen, Xin Han, Malgorzata Sterna*

### ■ MC-35

Monday, 12:30-14:00 - Building BM, ground floor, Room 17

#### Towards Understanding RNA

Stream: Computational Biology, Bioinformatics and Medicine

Chair: *Marta Szachniuk*

Chair: *Tomasz Żok*

##### 1 - Analysis of RNA Interference Mechanisms after Ionizing Radiation. Experiment and Model

*Marzena Dolbniak, Roman Jaksik, Joanna Rzeszowska-Wolny, Krzysztof Fajurewicz*

##### 2 - Tabu Search Algorithm for RNA Partial Degradation Problem (RNA PDP)

*Agnieszka Rybarczyk, Alain Hertz, Marta Kasprzak, Jacek Blazewicz*

##### 3 - Computational Riboswitch Detection Using Inverse RNA Folding

*Danny Barash*

##### 4 - Modelling and Simulations - an Application to the RNA World Hypothesis

*Natalia Szóstak, Jaroslaw Synak, Szymon Wasik, Jacek Blazewicz*

### ■ MC-36

Monday, 12:30-14:00 - Building BM, ground floor, Room 18

#### Scheduling in Healthcare 2

Stream: Scheduling in Healthcare

Chair: *Sally Brailsford*

##### 1 - A Robust Approach for a Surgical Case Assignment Problem

*Inês Marques, Maria Eugénia Captivo*

##### 2 - Simulation of Operating Theatre Processes

*Esra Agca Aktunc*

##### 3 - Designing the Blood Supply Chain: A Location-allocation Model with Collection and Production Considerations

*Andres Felipe Osorio, Sally Brailsford, Honora Smith*

### ■ MC-39

Monday, 12:30-14:00 - Building WE, 1st floor, Room 107

#### Networks and Contagions

Stream: Financial and Commodities Modeling

Chair: *Giulia Rotundo*

##### 1 - Networks of assets and options reliability

*Roy Cerqueti, Fabio Spizzichino*

##### 2 - Contagion in the world's stock exchanges seen as a network of coupled oscillators

*Giulia Rotundo*

**3 - Polynomial algorithms for partitioning trees with uniform criteria**

*Andrea Scozzari, Isabella Lari, Justo Puerto, Federica Ricca*

■ **MC-40**

*Monday, 12:30-14:00 - Building WE, 1st floor, Room 108*

**Financial Optimization and Portfolio Management**

Stream: Financial Engineering and Optimization

Chair: Jianjun Gao

**1 - Optimal Solutions of A Behavioral Portfolio Choice Optimization Problem**

*Youcheng Lou, Duan Li, Shouyang Wang*

**2 - Portfolio Optimization with Nonparametric Value-at-Risk: A BCD Method**

*Shushang Zhu*

**3 - Portfolio optimization with non-recursive reference point updating**

*Moris Strub, Duan Li*

**4 - Dynamic Mean-exceeding probability portfolio selection Problem**

*Ke Zhou, Duan Li*

■ **MC-41**

*Monday, 12:30-14:00 - Building WE, 2nd floor, Room 209*

**Systemic Risk and Risk Measures**

Stream: Financial Mathematics and OR

Chair: Cagin Ararat

**1 - Measuring systemic risk in financial networks via bootstrap percolation in inhomogeneous random graphs**

*Thilo Meyer-Brandis, Nils Detering, Konstantinos Panagiotou*

**2 - Modeling and Measuring Systemic Risk**

*Stefan Weber*

**3 - Systemic risk measures from a duality point of view**

*Cagin Ararat, Birgit Rudloff*

■ **MC-42**

*Monday, 12:30-14:00 - Building WE, 1st floor, Room 120*

**Models of Power and Influence in Game Theory**

Stream: Game Theory, Solutions and Structures

Chair: Jacek Mercik

**1 - Alternative Forms of the Shapley-Shubik Index**

*Sascha Kurz*

**2 - Decomposition, Value, and Power**

*André Casajus, Frank Huettner*

**3 - The Distribution of Power in the Lebanese Parliament Revisited**

*Frank Steffen, Mostapha Diss, Abdallah Zouache*

**4 - Johnston Index of Implicit Power as a Measure of Reciprocal Ownership**

*Jacek Mercik*

■ **MC-43**

*Monday, 12:30-14:00 - Building WE, ground floor, Room 18*

**Stochastic Models in Renewable Energy and Related Subjects**

Stream: Stochastic Models in Renewably Generated Electricity

Chair: Endre Bjorndal

**1 - Stochastic LCOE for intermitting renewable energy generation**

*Marcella Marra, Carlo Mari, Carlo Lucheroni*

**2 - Congestion Management in a Stochastic Dispatch Model for Electricity Markets**

*Endre Bjorndal, Mette Bjørndal, Kjetil Midthun, Golbon Zakeri*

**3 - Integrating Fourier Analysis and ANN for Medium Term Forecasting of Power Demand**

*Mert Ketenci, Gulgun Kayakutlu, Irem Duzdar*

■ **MC-47**

*Monday, 12:30-14:00 - Building WE, 1st floor, Room 115*

**Stochastic Modeling and Simulation in Engineering, Management and Science 2**

Stream: Stochastic Modeling and Simulation in Engineering, Management and Science

Chair: Juergen Branke

**1 - An Advertisement Placement Problem Solved by Optimization-simulation Approach**

*Mirko Vujosevic, Stefan Marković*

**2 - Optimal Sampling for Simulated Annealing in the Presence of Noise**

*Juergen Branke, Robin Ball, Stephan Meisel*

**3 - On the Efficiency of Total Repair Cost Limit Replacement Policies**

*Frank Beichelt*

**4 - Lateral Chromatic Aberration Correction in Digital Eye Fundus Images**

*Povilas Treigys, Vytautas Jakstys, V. Marcinkevicius*

■ **MC-48**

*Monday, 12:30-14:00 - Building WE, 1st floor, Room 116*

**Long Term Financial Decisions**

Stream: Long Term Financial Decisions

Chair: Heinz Eckart Klingelhöfer

Chair: Jean-Luc Prigent

**1 - Optimal investment problems for pairs trading**

*Zehra Eksi, Suhan Altay*

**2 - On the Stochastic Dominance of Portfolio Insurance Strategies: CPPI with conditional multiples versus OBPI**

*Jean-Luc Prigent, Hachmi Ben Ameer, Hela Maalej*

**3 - Term structure of defaultable bonds, an approach with Jacobi processes**

*Suhan Altay*

**4 - Leaders and followers in mutual funds: a Dynamic Bayesian Approach**

*Pilar Gargallo, Laura Andreu, Manuel Salvador, José Luis Sarto, José Luis Sarto*

■ **MC-51**

*Monday, 12:30-14:00 - Building PA, Room D*

**Linear Complementarity Problems and Interior-Point Methods**

Stream: Mathematical Programming

Chair: *Florian Potra*

**1 - Weighted Complementarity Problems and Applications**

*Florian Potra*

**2 - Iterative Schemes in Interior Point Methods: Sensitivity and Error Control**

*Lukas Schork, Jacek Gondzio*

**3 - Computing search directions in interior point methods with alternative linear systems**

*Aurelio Oliveira, Fábio Rodrigues Silva, Marta Velazco*

**4 - Full-Newton-step Infeasible Interior-Point Method for LCP that Requires Only One Step per Iteration**

*Goran Lesaja*

■ **MC-52**

*Monday, 12:30-14:00 - Building PA, Room C*

**Methods and Models of Convex Optimization**

Stream: Convex, Semi-Infinite and Semidefinite Optimization

Chair: *Petra Weidner*

**1 - Portfolio Optimization Models under Various Risk Measures**

*Carisa Kwok Wai Yu*

**2 - A New Calculus for Extended Real-Valued Functions**

*Petra Weidner*

**3 - Optimization with flexible objectives and constraints**

*Van Nam Tran*

■ **MC-53**

*Monday, 12:30-14:00 - Building PA, Room A*

**OR Promotion among Academia, Businesses, Governments, etc.**

Stream: Initiatives for OR Education

Chair: *Liudmyla Pavlenko*

**1 - TrainERGY - Training for energy efficiency operations**

*Antonio Diglio, Giuseppe Bruno, Andrea Genovese, Bartosz Kalinowski, Panayiotis Ketikidis, Lenny Koh, Agata Rudnicka, Adrian Solomon, Grażyna Wieteska*

**2 - Stability Theory Methods and Scientific Background in Art of Modelling for OR Education**

*Lyudmila Kuzmina*

**3 - An Overview of the stream "Operational Research: Environment and Climate" of the Summer School "Technology for Future"**

*Liudmyla Pavlenko, Kuhuk Jane, Sandra Yaremchuk*

**4 - Job Performance of DMMMSU-CGS Graduates**

*Remedios Neroza*

■ **MC-54**

*Monday, 12:30-14:00 - Building PA, Room B*

**Implicit splitting methods for convex optimization**

Stream: Convex Optimization

Chair: *Dirk Lorenz*

**1 - Relaxed and inertial preconditioned Douglas-Rachford splitting method**

*Hongpeng Sun, Kristian Bredies*

**2 - Line Search for Averaged Operator Iteration**

*Pontus Giselsson*

**3 - A Forward-Backward Quasi-Newton algorithm for minimizing the sum of two nonconvex functions**

*Panagiotis Patrinos, Andreas Themelis, Lorenzo Stella*

## Monday, 14:30-16:00

### ■ MD-01

Monday, 14:30-16:00 - Building CW, AULA MAGNA

#### Keynote Hans Georg Bock

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Ekaterina Kostina

- 1 - **Mixed-Integer Optimal Control - Theory, Numerical Solution and Nonlinear Model Predictive Control**  
*Hans Geog Bock*

### ■ MD-03

Monday, 14:30-16:00 - Building CW, 1st floor, Room 13

#### MADM Application 4

Stream: Multiple Criteria Decision Analysis

Chair: *Chun-Hsien Wang*

- 1 - **Technology Analysis and Management by Mining Patent Documents**  
*Hei Chia Wang, I-Chia Chiang*
- 2 - **A New Fuzzy Quality Control Chart Using Fuzzy Random Variables**  
*Liang-Hsuan Chen, Chia-Jung Chang, Chun-Yu Lin*
- 3 - **The research of two-stage perishable supply chain under discontinuous stages**  
*Tai-Yue Wang, Wei-Hsiang Lo*
- 4 - **Measuring Nonprofit Business Strategy Performance Based on View of Leadership: The Case of National Museums**  
*Yi-Shan Chen, Pei-Hsuan Tsai, Chin-Tsai Lin*
- 5 - **Unpacking network ties: The moderating effects of technology diversity on technology alliance portfolios**  
*Chun-Hsien Wang, Chie-bein Chen, Chin-Tsai Lin*

### ■ MD-04

Monday, 14:30-16:00 - Building CW, ground floor, Room 6

#### OR and CO in Web Engineering 2

Stream: Operations Research and Combinatorial Optimization in Web Engineering

Chair: Jedrzej Musial

- 1 - **A Conic Optimization Model for Replicated Data Stores in Geo-distributed Cloud Applications**  
*Julio Góez, Juan F. Pérez*
- 2 - **Dynamic Composition of Web Service Based on Cloud Computing**  
*Nadia Halfoune, Hassina Nacer*

- 3 - **Empirical examination of load time impact on search engine ranking**

*Jedrzej Marszałkowski, Jakub Marszałkowski, Maciej Drozdowski*

- 4 - **CSS-Sprite Packing Problem**

*Maciej Drozdowski, Jakub Marszałkowski, Jan Mizgajski, Dariusz Mokwa*

### ■ MD-05

Monday, 14:30-16:00 - Building CW, 1st floor, Room 8

#### Preferences and Problem Formulation in Multicriteria Optimization 2

Stream: Multiobjective Optimization

Chair: Michael Emmerich

Chair: *Iryna Yevseyeva*

- 1 - **Portfolio Optimization Problem Formulation for Non-Standard Applications**  
*Iryna Yevseyeva, Michael Emmerich*
- 2 - **Solving Framework Based on Decomposition and integration for task planning of Satellite-ground time synchronization in GNSS**  
*Feng Yao, Zhongshan Zhang, Longmei Li, Renjie He, Michael Emmerich*
- 3 - **Industrial Application for Multi-criterial Decision Support**  
*Daniel Ackerschott, Sebastian Engell*
- 4 - **Maximizing the Total Net Revenue for Selection and Scheduling Problem with Earliness-tardiness Consideration Using Differential Evolutionary Algorithm**  
*Xiaolu Liu, Cheng Chen, Renjie He, Feng Yao, Zhiwei Yang, Thomas Bäck*

### ■ MD-06

Monday, 14:30-16:00 - Building CW, ground floor, Room 2

#### Group Decision and Negotiation

Stream: Multiple Criteria Decision Aiding

Chair: Tomasz Wachowicz

Chair: *Gregory Kersten*

- 1 - **An Impact of Decision Making Profiles on Usefulness and Efficacy of Selected MCDM Methods in Building Reliable Scoring Systems**  
*Tomasz Wachowicz, Ewa Roszkowska*
- 2 - **Brexit negotiations: applying different multi-criteria decision aiding techniques in the process of evaluating the negotiation template**  
*Dorota Górecka*
- 3 - **Multi-attribute reverse auctions, buyers' transaction monopoly, and economic inefficiency**  
*Gregory Kersten*

**4 - On the need for alternative approaches to building the negotiation offer scoring systems**

*Ewa Roszkowska, Tomasz Wachowicz*

■ **MD-07**

*Monday, 14:30-16:00 - Building CW, 1st floor, Room 123*

**EURO Excellence in Practice, part II**

Stream: EURO Awards and Journals

Chair: *Ton de Kok*

**1 - An Integrated Approach to Tactical Transportation Planning**

*Jannik Matuschke, Tobias Harks, Felix G. König, Alexander Richter, Jens Schulz*

**2 - Evaluating Gas Network Capacities**

*Thorsten Koch, Benjamin Hiller, Marc Pfetsch, Lars Schewe*

**3 - Using Mathematical Optimization for Scheduling Heat Treatment Production**

*Karin Thörnblad*

■ **MD-08**

*Monday, 14:30-16:00 - Building CW, 1st floor, Room 9*

**Complex preference learning in MCDA 5**

Stream: Multiple Criteria Decision Aiding

Chair: *Chergui Zhor*

**1 - Assessment of some MCDA methods: a comparative study**

*Chergui Zhor, Moncef Abbas*

**2 - The evaluation model of service development strategies for mobile instant message service based on IOA-NRM approach**

*Lin Chia Li, Gwo-Hshiang Tzeng*

**3 - Selection of Buses for a Travel Company with fuzzy TOPSIS Method**

*Funda Samanlioglu, Berfu Tayse, Merve Ceren Demircan, Gorkem Peker*

**4 - A multi criteria model to evaluate research project proposals for public supports**

*Betül Cansu Özçakmak, Metin Dagdeviren*

■ **MD-09**

*Monday, 14:30-16:00 - Building CW, 1st floor, Room 12*

**MIP Software**

Stream: Mathematical Programming Software

Chair: *Zsolt Csizmadia*

**1 - Conflict Analysis in the Gurobi MIP Solver**

*Tobias Achterberg*

**2 - Reoptimization in Mixed-Integer Programming**

*Jakob Witzig*

**3 - Parallelization of the FICO Xpress Optimizer**

*Timo Berthold, Stefan Heinz, Michael Perregaard*

■ **MD-10**

*Monday, 14:30-16:00 - Building CW, ground floor, Room 1*

**Complex Societal Processes, OR and Ethics**

Stream: OR and Ethics

Chair: *Cathal Brugha*

Chair: *Dorien DeTombe*

Chair: *Gerhard-Wilhelm Weber*

**1 - Behavioral analysis of social actors in municipal sanitation problematic**

*Juliana de Souza Hyczy Hamberland, Mischel Carmen N. Belderrain*

**2 - Qualitative Analysis of Social Synchrony**

*Shantanu Biswas, Nirmal Kumar Sivaraman, Sakthi Balan Muthiah, Pushkal Agarwal*

**3 - Combining Equity and Utilitarianism - Comparison of Two Approaches in Diet Modelling Context**

*J.c. Gerdessen, Argyris Kanellopoulos, G.D.H. (Frits) Claassen*

**4 - A New Analytics Model for Rethinking Ethics and Community**

*Cathal Brugha*

■ **MD-11**

*Monday, 14:30-16:00 - Building CW, 1st floor, Room 127*

**Discrete and Global Optimization 2**

Stream: Discrete and Global Optimization

Chair: *Gerhard-Wilhelm Weber*

Chair: *Szymon Wasik*

**1 - Finding Link Patterns in Networks**

*Stefan Wiesberg, Gerhard Reinelt*

**2 - Modification of the Assignment Problem for Counterfactual Impact Evaluation Purposes**

*Michal Švarc*

**3 - Optil.io: a Platform for Organizing Challenges to Solve Optimization Problems**

*Szymon Wasik, Maciej Antczak, Jan Badura, Artur Laskowski, Tomasz Sternal*

**4 - Methodology for Evaluation of Optimization Algorithms Executing on GPU**

*Jan Badura, Artur Laskowski, Maciej Antczak, Szymon Wasik*

■ **MD-12**

*Monday, 14:30-16:00 - Building CW, ground floor, Room 029*

**VeRoLog: Vehicle Routing Problems with Compartments and Other Variants**

Stream: Vehicle Routing and Logistics Optimization

Chair: *Paolo Gianessi*

**1 - Grocery Distribution with Multi-Compartment Vehicles**

Manuel Ostermeier, Sara Martins, Alexander Hübner, Pedro Amorim

**2 - A hybrid metaheuristic applied to the refrigerated and general-type vehicles routing problem for the delivery of perishable products**

Jesus David Galarcio Noguera, Jorge Mario López Pereira, Helman Enrique Hernandez Riaño

**3 - A Branch-and-Cut-Algorithm for the Multi-Compartment Vehicle Routing Problem**

Tino Henke, M. Grazia Speranza, Gerhard Wäscher

**4 - Linear-time Split algorithm and applications**

Thibaut Vidal

■ **MD-13**

Monday, 14:30-16:00 - Building CW, ground floor, Room 3

**VeRoLog: Integrated Logistics Problems**

Stream: Vehicle Routing and Logistics Optimization

Chair: Demetrio Laganà

Chair: Luca Bertazzi

Chair: Christos Orlics

**1 - A Computation-Implementation Parallelization Approach for Computation-Time Limited Vehicle Routing Problem with Soft Time Windows**

Bahar Cavdar, Joel Sokol

**2 - An Exact algorithm for the Vehicle Routing Problem with Private Fleet and Common Carrier**

Said Dabia, David Lai, Daniele Vigo

**3 - A Branch-and-Cut algorithm for a Periodic Inventory Routing Problem**

Demetrio Laganà, Domenico Ventura, Luca Bertazzi, Jeffrey Ohlmann

**4 - The Undirected Capacitated Routing Problem with Profits and Service Level Requirements**

Christos Orlics, Demetrio Laganà, Wout Dullaert, Daniele Vigo

■ **MD-14**

Monday, 14:30-16:00 - Building CW, 1st floor, Room 125

**MILP Applications 1**

Stream: Mixed-Integer Linear and Nonlinear Programming

Chair: Pablo Benalcazar

**1 - A Mixed Integer Linear Programming Model for Capacity Allocation and Shift Scheduling in a Multi-Product, Multi-Resource Environment for Multiple Periods**

Ensar Kelez, Gorkem Yilmaz

**2 - Mathematical Programming Based Solution Approaches for Classification Problems in Data Mining**

Müge Acar, Refail Kasimbeyli

**3 - Restructuring Warehouse Locations: An Optimization Model**

Pablo Benalcazar, Jacek Kamiński

■ **MD-15**

Monday, 14:30-16:00 - Building CW, 1st floor, Room 126

**Engineering Optimization 2**

Stream: Engineering Optimization

Chair: Wolfgang Achtziger

Chair: Ben Lev

**1 - A New Mathematical Model for Assembly Line Balancing with Station Paralleling**

Hakan Altunay, H. Cenk Özmütlu, Seda Ozmutlu

**2 - Telecommunication Network Capacity Planning with Consideration of User Mobility Patterns**

Argon Chen

**3 - Solving the Airline Pilot Manpower Planning Problem using Matheuristics**

Björn Thalén, Per Sjögren

■ **MD-16**

Monday, 14:30-16:00 - Building CW, 1st floor, Room 128

**Dial-a-Ride Problems**

Stream: Healthcare Logistics

Chair: Marco Oberscheider

**1 - Multiple Passenger Dynamic Ride Sharing Transportation Models: An Analysis of Dispatching Policies**

Lidia Montero, M' Paz Linares, Jaume Barceló, Carlos Carmona

**2 - Demand-Responsive Transit Systems: Optimization and network design strategies for large complex networks**

Claudia Bongiovanni, Nikolas Geroliminis

**3 - Horizontal Cooperation in Dial-a-Ride Services**

Yves Molenbruch, Kris Braekers, An Caris

**4 - Implementation of an Adaptive Large Neighborhood Search based Decision Support System for a Real-World Dynamic Dial-a-Ride Problem**

Marco Oberscheider, Patrick Hirsch

■ **MD-18**

Monday, 14:30-16:00 - Building CW, ground floor, Room 023

**Sustainability 1**

Stream: Production and Operations Management

Chair: Emanuel Melachrinoudis

- 1 - **A Green Approach to Reduce In-flight Food Waste under Uncertainty: a Preliminary Study**  
*Lay Eng Teoh, Hooi Ling Khoo*
- 2 - **Optimizing the Collection Period of Products Returns under Uncertainty**  
*Nizar Zaarour, Emanuel Melachrinoudis*
- 3 - **Time Series Price Dynamics of New and Remanufactured Products**  
*Gu Pang, Supanan Phantratanamongkol, Luc Muyldermans*
- 4 - **An empirical analysis of the relationship between product life cycle and return rate in IT industry**  
*Hsiu-Chen Yang*

## ■ MD-19

Monday, 14:30-16:00 - Building CW, ground floor, Room 021

### Flows and routing problems

Stream: Telecommunications and Network Optimization

Chair: Bernard Fortz

- 1 - **On the Convex Piecewise Linear Unsplittable Multi-commodity Flow Problem**  
*Martim Joyce-Moniz, Bernard Fortz, Luís Gouveia*
- 2 - **New Lagrangian Relaxation Approach for the Discrete Cost Multicommodity Network Design Problem**  
*Nesrine Bakkar Ennaifer, Safa Bhar Layeb, Farah Zeghal Mansour*
- 3 - **Modeling the Steering of International Roaming Traffic**  
*Maria da Conceicao Fonseca, Carlos Lúcio Martins, Margarida Vaz Pato*

## ■ MD-20

Monday, 14:30-16:00 - Building CW, ground floor, Room 022

### Location in supply chains

Stream: Location

Chair: Begun Efeoglu

- 1 - **Analyzing the Impact of Capacity Volatility on the Design of a Supply Chain Network**  
*Diego Ruiz-Hernandez, Mozart Menezes, Kai Luo, Oihab Allal-Cherif*
- 2 - **Impact of Demand Stochasticity on Facility Layouts**  
*Begun Efeoglu, Melih Çelik, Haldun Sural*
- 3 - **The Risk-Aware Multi-Period Capacitated Plant Location Problem (CPLP-Risk)**  
*Iris Heckmann, Stefan Nickel, Francisco Saldanha-da-Gama*

## ■ MD-21

Monday, 14:30-16:00 - Building CW, ground floor, Room 025

### Crew planning

Stream: Public Transportation

Chair: Dennis Huisman

- 1 - **Integrated Duty Assignment and Crew Rostering at Netherlands Railways**  
*Thomas Breugem*
- 2 - **Integrating Timetabling and Crew Scheduling at a Freight Railway Operator**  
*Twan Dollevoet, Lukas Bach, Dennis Huisman*
- 3 - **Crew Rescheduling for the winter timetable of Netherlands Railways**  
*Dennis Huisman*

## ■ MD-22

Monday, 14:30-16:00 - Building CW, ground floor, Room 027

### Applications in Combinatorial Optimization 1

Stream: Combinatorial Optimization

Chair: Valentina Cacchiani

- 1 - **Heuristic and exact separation of robust cut-set inequalities**  
*Daniel Schmidt, Chrysanthos E. Gounaris*
- 2 - **Solving Minimum-Cost Shared Arborescence Problems**  
*Eduardo Álvarez-Miranda, Ivana Ljubic, Martin Luipersbeck, Markus Sinnl*
- 3 - **Rolling stock optimization for the Danish railway system**  
*Federico Farina, Roberto Roberti, Stefan Ropke, Evelien van der Hurk*
- 4 - **Flight Retiming in an Integrated Airline Scheduling Problem**  
*Valentina Cacchiani, Juan José Salazar González*

## ■ MD-23

Monday, 14:30-16:00 - Building CW, ground floor, Room 028

### Social Networks

Stream: Graphs and Networks

Chair: Natalia Meshcheryakova

- 1 - **On the similarity of central nodes in complex and sparse networks**  
*Sergey Shvydun*
- 2 - **Algebraic operators for the improvement of centrality indices**  
*Valter Senna, Hernane Pereira, Andre Chastinet*
- 3 - **Influence estimation in networks by long-range interactions**  
*Natalia Meshcheryakova*

**4 - Overlapping Kernel-Based Community Detection with Node Attributes**

*Elisabetta Fersini*

■ **MD-24**

Monday, 14:30-16:00 - Building BM, 1st floor, Room 119

**Defence and Security 4**

Stream: Defence and Security

Chair: Ana Isabel Barros

- 1 - **Terror Queue Staffing and The Detection of Terror Plots**  
*Edward Kaplan*
- 2 - **Understanding Terrorist Attacks: Evidence Based Estimation of Terrorist Organizations' Search Patterns**  
*Johannes Jaspersen, Gilberto Montibeller*
- 3 - **The Impact of Timetabling on the Efficient Evacuation of a Facility in the Event of an Emergency**  
*Hendrik Vermuyten*
- 4 - **Real-Time Police Patrol Guidance**  
*Johanna Leigh*

■ **MD-25**

Monday, 14:30-16:00 - Building BM, ground floor, Room 19

**Modelling human behaviour**

Stream: Behavioural Operational Research

Chair: Sean Manzi

- 1 - **Analyzing supply chain planning behaviors with agent-based modeling and simulation**  
*Can Sun, Thomas Ponsignon, Thomas Rose*
- 2 - **An Agent-Based Model of Teams under External Shocks**  
*Duncan Robertson, Leroy White*
- 3 - **Soft OR and SNA for Simulating Human Behaviour**  
*Salimeh Pour Mohammad, Angela Espinosa, Richard Vidgen*
- 4 - **The basic components for simulating human behaviour in complex systems and associated research challenges**  
*Sean Manzi*

■ **MD-26**

Monday, 14:30-16:00 - Building BM, 1st floor, Room 109D

**Dynamical Models in Sustainable Development 4**

Stream: Dynamical Models in Sustainable Development

Chair: Yao Liang

- 1 - **Decision-making for energy system planning using TIMES: the uptake of decentralized generation and storage technologies on a community-scale**  
*Mashaël Yazdanie, Martin Densing*

- 2 - **Methodology for the reduction of Greenhouse Gas Emission in an Ethanol Supply Chain**  
*Bruno Ignácio, Sergio Pereira*

- 3 - **The problems of modelling and analysing in complex multi-scale systems dynamics**  
*Lyudmila Kuzmina*

- 4 - **Assessing coordinated development of society, economy and environment based on ecosystem service value: A case study of Beijing City, China**  
*Yao Liang*

■ **MD-27**

Monday, 14:30-16:00 - Building BM, ground floor, Room 20

**Dynamic Programming 1**

Stream: Dynamic Programming

Chair: Lidija Zadnik Stirn

- 1 - **Google's AlphaGo, Monte-Carlo Tree Search, and Dynamic Programming**  
*Michael Fu*
- 2 - **A simple model for a timber transportation scheduling problem**  
*Jean-Sébastien Tancrez*
- 3 - **A Model for Scheduling Tanker Shipments**  
*Mico Kurilic*
- 4 - **The Attended Home Delivery Management by Approximate Dynamic Programming with Continuous Delivery Distance Approximation**  
*Xinan Yang, Arne Karsten Strauss*

■ **MD-30**

Monday, 14:30-16:00 - Building BM, 1st floor, Room 110

**System Dynamics Business Modelling. Workshop for Managers, Consultants and Students 2**

Stream: System Dynamics Modeling and Simulation

Chair: Kim Warren

- 1 - **System Dynamics Business Modelling. Workshop for Managers, Consultants and Students 2**  
*Kim Warren, Markus Schwaninger*

■ **MD-31**

Monday, 14:30-16:00 - Building BM, 1st floor, Room 111

**Performance Analysis in Sports**

Stream: OR in Sports

Chair: Uday Damodaran

- 1 - **Spatial Skills of Players of the Beautiful Game**  
*Deepak Dhayanithy*
- 2 - **Suggestive Model for Career Decisions in Football Using Data Mining Techniques**  
*Amit Kumar Gupta, Anay Rennie*
- 3 - **Determinants of Non-penalty Goals Scored per Game by Football Teams in Europe's Elite Leagues**  
*Sumit Sarkar, Soumyakanti Chakraborty*
- 4 - **Analyzing the Effect of Discontinuation of Batting Power Play on Bowlers' Performance**  
*Abhishek Chakraborty*

## ■ MD-33

Monday, 14:30-16:00 - Building BM, 1st floor, Room 113

### Emerging Applications of Data Mining and Computational Statistics 4

Stream: Computational Statistics

Chair: *Pakize Taylan*

Chair: *Gerhard-Wilhelm Weber*

Chair: *Koen W. De Bock*

- 1 - **Enhancing Rule Ensembles with Smoothing Splines and Constrained Feature Selection: an Application in Bankruptcy Prediction**  
*Koen W. De Bock*
- 2 - **Automated Blood Vessel Detection and Pathological Changes Identification in Eye Fundus Images**  
*Jolita Bernatavičienė, Gintautas Dzemyda, Alvydas Paunksnis, Giedrius Stabingis, Povilas Treigys*
- 3 - **Data Analysis Method for Facility Breakdown Prediction in the Semiconductor Manufacturing Process**  
*Youngji Yoo, Jun-Geol Baek*
- 4 - **Estimation in Partially Linear Regression Models Based on Regression Spline under Right Censored Data**  
*Ersin Yilmaz, Dursun Aydın*

## ■ MD-34

Monday, 14:30-16:00 - Building BM, 1st floor, Room 116

### Scheduling of Personnel and Nonrenewable Resources

Stream: Supply Chain Scheduling and Logistics

Chair: *Erwin Pesch*

Chair: *Alena Otto*

- 1 - **Combined manpower teaming and routing problem**  
*Yulia Anoshkina, Frank Meisel*
- 2 - **A two-phase approach for the multi-department personnel scheduling problem**  
*Sarra Souissi, Guy Desaulniers*

- 3 - **Shift schedule re-optimization after a small perturbation during the operations**  
*Rachid Hassani, Issmail Elhallaoui*
- 4 - **Approximation schemes for resource scheduling problems on parallel machines**  
*Péter Györgyi, Tamas Kis*

## ■ MD-35

Monday, 14:30-16:00 - Building BM, ground floor, Room 17

### Algorithms for Biomedicine

Stream: Computational Biology, Bioinformatics and Medicine

Chair: *Marek Ostaszewski*

- 1 - **Disturbing Effect of Hyperlipidemia on the Monocyte-Macrophage Axis Modeled and Analyzed Using Time Petri Nets**  
*Katarzyna Rżosińska, Dorota Formanowicz, Piotr Formanowicz*
- 2 - **The Influence of Blood Pressure on the Formation and Development of Atherosclerosis Modeled and Analyzed Using Stochastic Petri Nets**  
*Marcin Radom, Dorota Formanowicz, Radosław Urbaniak, Piotr Formanowicz*
- 3 - **Forecasting Approach for the Progression of CCHF Infections**  
*Muhammad Irfan Azhar, Metin Turkey*
- 4 - **Multilayer Spatial Evolutionary Games and Cancer Cells Heterogeneity**  
*Andrzej Swierniak*

## ■ MD-36

Monday, 14:30-16:00 - Building BM, ground floor, Room 18

### Scheduling in Healthcare 3

Stream: Scheduling in Healthcare

Chair: *Rosita Guido*

- 1 - **Personnel Rostering with Individual Preferences in Care Facilities**  
*Lena Wolbeck, Natalia Kliewer*
- 2 - **Scheduling Home Hospice Care with Logic-Based Benders Decomposition**  
*John Hooker, Aliza R. Heching*
- 3 - **A Matheuristic Approach for Solving the Offline Bed Assignment Problem**  
*Rosita Guido, Maria Carmela Groccia, Domenico Conforti*

## ■ MD-38

Monday, 14:30-16:00 - Building BM, 1st floor, Room 109M

### Health Care Operations

Stream: Health Care Management

Chair: *Jens Brunner*

**1 - Solution Methods for the Tray Optimization Problem**

*Theresia van Essen, Twan Dollevoet, Kristiaan Glorie*

**2 - Operational Bed Allocation in Large Hospital Settings**

*Alexander Hübner, Manuel Walther*

**3 - Decision Support for Physician Scheduling at a German Hospital**

*Jan Schoenfelder, Christian Pfefferlen*

**4 - Physician staffing subject to stochastic demand**

*Jens Brunner, Andreas Fügener*

■ **MD-39**

*Monday, 14:30-16:00 - Building WE, 1st floor, Room 107*

**Markov Decision Processes in Revenue Management**

Stream: Advances in Revenue Management

Chair: *Darius Walczak*

**1 - When is Bad "Bad Enough"? A Linearization Framework for Analyzing Benefits of Coordination under Externalities**

*Anna Klis*

**2 - Revenue Management under Reviews and Online Ratings**

*Dirk Sierag, Diederik Roijers*

**3 - Constrained Markov Decision Processes in Revenue Management**

*Darius Walczak*

■ **MD-40**

*Monday, 14:30-16:00 - Building WE, 1st floor, Room 108*

**Portfolio Optimization and Risk Management**

Stream: Financial Engineering and Optimization

Chair: *Shushang Zhu*

**1 - Integration of dynamic mean-risk and expected utility maximization frameworks**

*Duan Li*

**2 - Asset allocation under loss aversion and minimum performance constraint in a DC pension plan with inflation risk**

*Zhongfei Li*

**3 - Dynamic Portfolio Optimization with Loss Aversion Preference in Mean-Reverting Market**

*Jianjun Gao, Duan Li*

**4 - Optimally Manage Crash Risk**

*Wei Zhu*

■ **MD-41**

*Monday, 14:30-16:00 - Building WE, 2nd floor, Room 209*

**Finance and OR 1**

Stream: Financial Mathematics and OR

Chair: *Azar Karimov*

Chair: *Gerhard-Wilhelm Weber*

Chair: *Suhan Altay*

**1 - Stochastic Optimal Control of Systems with Regime Switches, Jumps and Delay - in Finance, Economics and Nature**

*Gerhard-Wilhelm Weber, Emel Savku, Yeliz Yolcu Okur*

**2 - Modelling Operational Risk using Skew t-copulas and Bayesian Inference**

*Betty Johanna Garzon Rozo, Jonathan Crook*

**3 - Investor motivations and decision criteria in equity crowdfunding**

*Tomi Seppala, Anna Lukkarinen, Jyrki Wallenius, Hannele Wallenius*

■ **MD-42**

*Monday, 14:30-16:00 - Building WE, 1st floor, Room 120*

**Applications and Computational Methods in Game Theory**

Stream: Game Theory, Solutions and Structures

Chair: *Elisenda Molina*

**1 - Computing power in influence decision models**

*Maria Serna, Xavier Molinero*

**2 - Solving Fuzzy Games for Players with Different Risk Levels**

*Yesim Koca, Ozlem Muge Testik*

**3 - Improving Polynomial Estimation of the Shapley Value Based on Stratified Random Sampling with Optimum Allocation**

*Elisenda Molina, Juan Tejada, Javier Castro, Daniel Gomez Gonzalez*

■ **MD-43**

*Monday, 14:30-16:00 - Building WE, ground floor, Room 18*

**Optimization in Renewable Energy Systems 1**

Stream: Optimization in Renewable Energy Systems

Chair: *Serap Ulusam Seckiner*

**1 - Modelling of Wind Speed and Generated Power of a Wind Turbine by Using Particle Filtering to Monitor a Wind Farm**

*Yunus Eroglu, Serap Ulusam Seckiner*

**2 - Performance Analysis of Wind Turbines**

*Serap Ulusam Seckiner, Harika Akalin, Yunus Eroglu*

**3 - Wind Turbine Placement in Wind Farms Using Brute Force Algorithm**

*Melike Sultan Karasu Asnaz, Kadriye Ergün*

■ **MD-47**

*Monday, 14:30-16:00 - Building WE, 1st floor, Room 115*

**Stochastic Modeling and Simulation in Engineering, Management and Science 3**

Stream: Stochastic Modeling and Simulation in Engineering, Management and Science

Chair: Gerhard-Wilhelm Weber

Chair: *Paresh Date*

**1 - Impact of Knowledge Sharing-Based Online Customer Complaint Handling on Enterprise Product Sales - A Simulation Analysis**

*Siyu Luo, Shuqin Cai, Shimiao Jiang*

**2 - Effects of Transfer Policies and Layout Structures in Automotive Body Shops Considering Multi-products**

*Dug Hee Moon, Yeseul Nam, Yang Woo Shin*

**3 - Application of a New Method for Sampling from Partially Specified Distributions in the Assessment of Indeterminate Power Systems**

*Paresh Date, Mohasen Mohammadi, Gareth Taylor*

■ **MD-48**

*Monday, 14:30-16:00 - Building WE, 1st floor, Room 116*

**Portfolio optimization**

Stream: Decision Making Modeling and Risk Assessment in the Financial Sector

Chair: Adam Krzemienowski

**1 - Dynamic portfolio choices by simulation-and-regression: revisiting the issue of value function vs portfolio weight recursions**

*Jean-Guy Simonato, Michel Denault*

**2 - Stress-testing of pension fund ALM models with stochastic dominance constraints**

*Sebastiano Vitali, Milos Kopa, Vittorio Moriggia*

**3 - Portfolio selection based on the worst-case distribution**

*Adam Krzemienowski*

■ **MD-51**

*Monday, 14:30-16:00 - Building PA, Room D*

**Optimality Conditions, Regularity and Related Topics**

Stream: Mathematical Programming

Chair: Goran Lesaja

**1 - P-regularity Theory and Optimization Problems**

*Alexey Tretyakov, Agnieszka Prusińska*

**2 - A Method of Meeting Paths for Linear Exchange Model and Generalizations**

*Vadim Shmyrev*

■ **MD-52**

*Monday, 14:30-16:00 - Building PA, Room C*

**Global Optimization**

Stream: Global Optimization

Chair: Ahmet Sahiner

Chair: *Fatih Uzun*

**1 - Lipschitz Global Optimization**

*Yaroslav Sergeev*

**2 - Generalized convexity concepts and their role in optimization**

*Pál Burai*

**3 - A global method for operation optimization problem**

*Lianjie Tang, Lixin Tang*

■ **MD-53**

*Monday, 14:30-16:00 - Building PA, Room A*

**Panel: European Study on OR/MS Education**

Stream: Initiatives for OR Education

Chair: Marco Laumanns

Chair: *Joao Miranda*

**1 - European Study on OR/MS Education: Brief Results and Preliminary Trends**

*Jeroen Belien, Hans W. Ittmann, Marco Laumanns, Joao Miranda, Ana Paula Teixeira, Margarida Vaz Pato*

**2 - Panel Discussion on OR/MS Education: Countries' Differences within a Shared European View?**

*Jeroen Belien, Kseniia Ilchenko, Joao Miranda, José Fernando Oliveira, Kenneth Sörensen, Ariela Sofer, Marijana Zekic-Susac*

■ **MD-54**

*Monday, 14:30-16:00 - Building PA, Room B*

**Large scale structured optimization 1**

Stream: Convex Optimization

Chair: Silvia Villa

Chair: *Saverio Salzo*

**1 - A Dual Method for Minimizing a Nonsmooth Objective over One Smooth Inequality Constraint**

*Ron Shefi, Marc Teboulle*

**2 - Acceleration of iterative regularization algorithms by delta-convex minimization**

*Claudio Estatico, Fabio Di Benedetto, Flavia Lenti*

**3 - Convergence analysis of a stochastic majorize-minimize memory gradient algorithm**

*Jean-Christophe Pesquet, Emilie Chouzenoux*

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**■ MD-56**

*Monday, 14:30-16:00 - Building CW, 1st floor, Room 122*

**Turning Research into Collaborative Cloud Applications**

Stream: Workshops and roundtable

Chair: *Susanne Heipcke*

**1 - Turning Research into Collaborative Cloud Applications**

*Susanne Heipcke, Sebastien Lannez*

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**■ MD-58**

*Monday, 14:30-16:00 - Building CW, Room 024*

**Mentoring Session 1**

Stream: Mentoring Sessions

**1 - Mentoring Session 1**

*Galina Andreeva*

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**Monday, 16:30-17:30**

**■ ME-01**

*Monday, 16:30-17:30 - Building CW, AULA MAGNA*

**Plenary Dimitris Bertsimas**

Stream: Plenary, Keynote and Tutorial Sessions

Chair: *Daniele Vigo*

**1 - Machine Learning and Statistics via a Modern Optimization Lens**

*Dimitris Bertsimas*

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## Tuesday, 8:30-10:00

### ■ TA-01

Tuesday, 8:30-10:00 - Building CW, AULA MAGNA

#### Keynote José Fernando Oliveira

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Erik Demeulemeester

#### 1 - Waste Minimization: the Contribution of Cutting and Packing Problems for a More Competitive and Environmentally Friendly Industry

*José Fernando Oliveira*

### ■ TA-03

Tuesday, 8:30-10:00 - Building CW, 1st floor, Room 13

#### Preference Learning 1

Stream: Preference Learning

Chair: Salvatore Corrente

#### 1 - Axiomatization of the Choquet integral and some aspects of its behavioural analysis

*Mikhail Timonin*

#### 2 - UTA-splines: additive value functions with polynomials

*Olivier Sobrie, Nicolas Gillis, Vincent Mousseau, Marc Pirlot*

#### 3 - Interval UTA methods under different confidence levels of preference information

*Masahiro Inuiguchi, Tomo Sugiyama, Roman Slowinski, Salvatore Greco*

#### 4 - Robust decisions under risk & uncertainty

*Roman Slowinski, Salvatore Corrente, Salvatore Greco, Benedetto Matarazzo*

### ■ TA-04

Tuesday, 8:30-10:00 - Building CW, ground floor, Room 6

#### On some developments in game theory and OR situations

Stream: Recent Developments on Optimization and Some Results on Game Theory

Chair: Mariusz Kaleta

#### 1 - What can experiments tell us about strategic behaviour in two-person, non-zero-sum games?

*Alan Pearman, Ken-Ichi Shimomura, Barbara Summers, Simon McNair*

#### 2 - A Location-Based Train Performance Analysis for Passenger Trains.

*Sofia Villers*

#### 3 - Cost reduction through the analysis of Sigma level: Case Study Automotive Industry

*Amanda Mendes, Eliane Christo*

#### 4 - Networked auctions and Price of Fairness

*Mariusz Kaleta*

### ■ TA-05

Tuesday, 8:30-10:00 - Building CW, 1st floor, Room 8

#### Human Aspects in Multiobjective Optimization

Stream: Multiobjective Optimization

Chair: Alena Otto

Chair: Dmitry Podkopaev

#### 1 - Interactive Multiobjective Methods: on the Measurement of the Achieved Decision Accuracy in the Laboratory Setting

*Alena Otto*

#### 2 - Multiple Criteria Decision Analysis: Method Centric or Human Centric?

*Ignacy Kaliszewski*

#### 3 - Towards Human-oriented Development of Multiobjective Optimization Methods

*Dmitry Podkopaev*

### ■ TA-06

Tuesday, 8:30-10:00 - Building CW, ground floor, Room 2

#### Risk, Uncertainty, and Decision 1

Stream: Risk, Uncertainty, and Decision

Chair: Veronica Roberta Cappelli

#### 1 - Bounded Rationality and Decision Analysis

*Rakesh Sarin*

#### 2 - Sources of Uncertainty

*Simone Cerreia Vioglio, Veronica Roberta Cappelli, Fabio Angelo Maccheroni, Massimo Marinacci*

#### 3 - Testing Biseparable Preferences

*Veronica Roberta Cappelli, Fabio Angelo Maccheroni, Giorgia Romagnoli*

### ■ TA-07

Tuesday, 8:30-10:00 - Building CW, 1st floor, Room 123

#### ROADEF/EURO OR Challenge presentation (II)

Stream: EURO Awards and Journals

Chair: Eric Bourreau

Chair: Vincent Jost

Chair: Safia Kedad-Sidhoum

Chair: David Savourey

Chair: Marc Sevaux

Chair: Jean André

Chair: Michele Quattrone

Chair: Rodrigue Fokouop

#### 1 - GRASP Approach for Inventory Routing Problem

*Tamara Jovanovic*

**2 - A heuristic for the Air Liquid Inventory Routing Problem**

*Pedro Munari, Aldair Álvarez, Maria Gabriela Furtado, Pedro Luis Miranda, Amélia Stanzani*

**3 - ROADEF/EURO Challenge 2016 : Final Results announcement**

*Eric Bourreau, Vincent Jost, Safia Kedad-Sidhoum, David Savourey, Marc Sevaux, Jean André, Michele Quattrone, Rodrigue Fokouop*

**■ TA-08**

*Tuesday, 8:30-10:00 - Building CW, 1st floor, Room 9*

**Workshop on Spatial-Multi Criteria Evaluation Decision Support System**

Stream: Workshops and roundtable

Chair: *Valentina Ferretti*

Chair: *Luc Boerboom*

**1 - Workshop on Spatial-Multi Criteria Evaluation Decision Support System**

*Luc Boerboom, Valentina Ferretti*

**■ TA-09**

*Tuesday, 8:30-10:00 - Building CW, 1st floor, Room 12*

**Modeling software**

Stream: Mathematical Programming Software

Chair: *Robert Fourer*

**1 - Recent progress in CPLEX for Quadratic models**

*Xavier Nodet*

**2 - Cloud services for optimization modeling software**

*Robert Fourer*

**3 - Mosel: Modelling and more**

*Susanne Heipcke*

**4 - Deploying MPL Optimization Models with Google Web Services API's**

*Bjarni Kristjansson, Sandip Pindoria*

**■ TA-10**

*Tuesday, 8:30-10:00 - Building CW, ground floor, Room 1*

**AHP Applications 1**

Stream: Analytic Hierarchy Process / Analytic Network Process

Chair: *Josef Jablonsky*

**1 - Energy Resource Selection Using Analytic Hierarchy Process: Case of Black Sea Region in Turkey**

*Ata Çırak, Didem Cinar*

**2 - Choose a medium-sized warship to be built in Brazil: a multicriteria approach**

*Marcos Santos, Rubens Oliveira, Sergio Baltar Fandino, Ernesto Rademaker Martins, Jonathan Ramos, Glauco da Silva*

**3 - AHP model for quality of life analysis: A case of Czech administrative regions**

*Josef Jablonsky*

**4 - Stakeholder Prioritization using AHP: A Sustainability Marketing Perspective**

*Vinod Kumar*

**■ TA-11**

*Tuesday, 8:30-10:00 - Building CW, 1st floor, Room 127*

**Discrete and Global Optimization 3**

Stream: Discrete and Global Optimization

Chair: *Gerhard-Wilhelm Weber*

Chair: *Vahid Eghbal Akhlaghi*

**1 - A Global Approach for Storage Location Problems in a Distribution Center**

*Jung-Fa Tsai, Ming-Hua Lin*

**2 - The Two-Echelon Freight Transportation Network in City Logistics**

*Mohammad Saleh Farham, Haldun Sural, Cem Iyigün*

**3 - Comparison of CRM and k-Unit Cycles in Robotic Cells with Multiple Parts**

*Vahid Eghbal Akhlaghi, Hakan Gultekin, Betül Çoban*

**4 - Integer Programming Formulations and Benders Decomposition for Maximum Induced Matching Problem**

*Betül Ahat, Tinaz Ekim, Z.Caner Taskin*

**■ TA-12**

*Tuesday, 8:30-10:00 - Building CW, ground floor, Room 029*

**VeRoLog: Crossdocking**

Stream: Vehicle Routing and Logistics Optimization

Chair: *Fabien Lehuédé*

**1 - Shipment Consolidation and Dispatching with Cross-Docks**

*Sinem Tokcaer, Ahmet Camcı, Ozgur Ozpeynirci*

**2 - Integrated optimization for material flow and placement problem in cross-docking**

*Ilker Kucukoglu, Nursel Ozturk*

**3 - A large neighborhood based matheuristic for the vehicle routing problem with cross-docking and dock resource constraints**

*Fabien Lehuédé, Michel Gendreau, Philippe Grangier, Louis-Martin Rousseau*

- 4 - **Design and Analysis of a Proposed Nested Genetic Algorithm to Solve a Vehicle Routing Problem with Cross Docking**  
*Mahdi Bashiri, Ali Baniamerian*

## ■ TA-13

Tuesday, 8:30-10:00 - Building CW, ground floor, Room 3

### VeRoLog: Routing In Practice 1

Stream: Vehicle Routing and Logistics Optimization  
 Chair: Sameh Haneyah

- 1 - **Departure Time Optimization in Real-life Vehicle Routing Problems**  
*Gerben Groenendijk, Leendert Kok*
- 2 - **Solving Integrated Vehicle Routing and Resource Assignment Problems from Practice**  
*Sameh Haneyah, Leendert Kok*
- 3 - **Practical Ways to Solve Real-life Extensions to Routing Problems**  
*Bryan Kuiper*
- 4 - **Properties of Good Solutions for the Vehicle Routing Problem**  
*Florian Arnold, Kenneth Sørensen*

## ■ TA-14

Tuesday, 8:30-10:00 - Building CW, 1st floor, Room 125

### Optimal decisions

Stream: Mixed-Integer Linear and Nonlinear Programming  
 Chair: Giuseppe Bruno

- 1 - **An optimization model for the check-in service**  
*Giuseppe Bruno, Antonio Diglio, Andrea Genovese, Carmela Piccolo*
- 2 - **Distance-based methods of group classification**  
*Mariya Naumova*
- 3 - **Intelligent Decision Support Systems in Supply Chain Management**  
*Sahar Validi*
- 4 - **Maximization Problems with Half-Product Objective Function**  
*Vitaly Strusevich, Hans Kellerer, Rebecca Sarto Basso*

## ■ TA-15

Tuesday, 8:30-10:00 - Building CW, 1st floor, Room 126

### Modeling Uncertainties in Gas Network Optimization

Stream: Optimization of Gas Networks  
 Chair: Sidhant Misra

- 1 - **The Passive Gas Network Nomination Problem: Handling of Physical Uncertainties**  
*Denis Abmann, Frauke Liers, Michael Stingl*

- 2 - **Monotonicity in Dissipative Networks and Applications to Robust Optimization**  
*Marc Vuffray, Sidhant Misra*

- 3 - **Optimization of integrated gas-electric systems under uncertainty**  
*Line Roald, Sidhant Misra*

## ■ TA-16

Tuesday, 8:30-10:00 - Building CW, 1st floor, Room 128

### Home healthcare

Stream: Healthcare Logistics  
 Chair: Tomas Eric Nordlander

- 1 - **A heuristic rolling horizon approach for home care routing and scheduling in a dynamic setting**  
*Daniela Lüers, Leena Suhl*
- 2 - **Homecare planning, a challenging optimization task.**  
*Tomas Eric Nordlander, Leonardo Lamorgese*
- 3 - **Integrated Home Health Care Optimization via Genetic Algorithm and Mathematical Programming**  
*Ly Nguyen, Roberto Montemanni*
- 4 - **Alternative transport modes for home health care staff - logistical challenges and the question of sustainability**  
*Patrick Hirsch, Christian Fikar, Klaus-Dieter Rest, Jana Voegl*

## ■ TA-17

Tuesday, 8:30-10:00 - Building CW, ground floor, Room 0210

### Assortment and Portfolio Management

Stream: Demand and Supply Management in Retail and Consumer Goods  
 Chair: Alexander Hübner

- 1 - **A dynamic clustering approach to data-driven assortment personalization**  
*Fernando Bernstein*
- 2 - **An integrated assortment- and shelf-space optimization model**  
*Kai Schaal, Alexander Hübner*
- 3 - **Retail category optimization: methodology and application**  
*Marina Karampatsa, Evangelos Grigoroudis, Nikolaos Matsatsinis*

**4 - Economies of scope in service production**

*Guenter Fandel, Jan Trockel*

■ **TA-18**

*Tuesday, 8:30-10:00 - Building CW, ground floor, Room 023*

**Sustainability 2**

Stream: Production and Operations Management

Chair: Mina Faragallah

**1 - Multi-manufacturer pricing and quality management strategies in the presence of brand differentiation and return policy**

*Balaji Roy*

**2 - Multicriteria Model to Evaluate the Green Logistics**

*Edilson Giffhorn, Maria do Socorro dos Santos Giffhorn*

**3 - Optimization of Integrated Batch Mixing & Continuous Flow in Glass Tube & Fluorescent Lamp Production Process**

*Mina Faragallah, Abdelghani Elimam*

■ **TA-19**

*Tuesday, 8:30-10:00 - Building CW, ground floor, Room 021*

**Network design**

Stream: Telecommunications and Network Optimization

Chair: Jean-Sébastien Tancrez

**1 - Optimizing Fiber To The Home cabling schemes**

*Vincent Angilella, Matthieu Chardy, Walid Ben-Ameur*

**2 - Benders Decomposition for the Multi-Layer Telecommunication Network Design Problem**

*Inci Yüksel-Ergün, Haldun Sural, Ömer Kirca*

**3 - Benders Decomposition and Column Generation for the Discrete Cost Multicommodity Network Design Problem**

*Imen Mejri, Safa Bhar Layeb, Farah Mansour Zeghal, Mohamed Haouari*

**4 - A Multi-Hub Express Shipment Service Network Design Model with Flexible Hub Assignments**

*Jose Miguel Quesada, Jean-Charles Lange, Jean-Sébastien Tancrez*

■ **TA-20**

*Tuesday, 8:30-10:00 - Building CW, ground floor, Room 022*

**Facility Location**

Stream: Location

Chair: Masashi Miyagawa

**1 - Optimizing hierarchical facility location and service zones with multiple distance constraints: Exploring the problem on one route**

*Mohsin Nasir Jat, Luc Muyldermans*

**2 - Ranking based heuristic algorithm for discrete competitive facility location problems**

*Julius Žilinskas, Algirdas Lančinskas, Pascual Fernandez, Blas Pelegrin*

**3 - A Facility Location Model Using DEA**

*Adel Hatamimarbini, Mehdi Toloo, Per Agrell*

■ **TA-21**

*Tuesday, 8:30-10:00 - Building CW, ground floor, Room 025*

**Planning of rapid transit systems**

Stream: Public Transportation

Chair: Eva Barrena

**1 - Determination of frequencies, vehicle capacities and passenger assignment in dense Railway Rapid Transit networks**

*David Canca, Eva Barrena, Alicia De Los Santos Pineda, Jose Luis Andrade*

**2 - Passenger Demand considerations in Rapid Transit Networks Timetabling**

*Eva Barrena, David Canca, Francisco A. Ortega Riejos*

**3 - A public transit network design model considering redistribution of services and depot location during disruptions**

*Luis Cadarso, Esteve Codina, Laureano Fernando Escudero, Ángel Marín*

■ **TA-22**

*Tuesday, 8:30-10:00 - Building CW, ground floor, Room 027*

**Large Scale Optimisation in Transportation and Production**

Stream: Combinatorial Optimization

Chair: Francois Soumis

**1 - Constraints Aggregation for Large-Scale Pairing Problems**

*Francois Soumis, Mohammed Saddoune, François Lessard*

**2 - Simultaneous Optimization of Personalized Integrated Recovery for Pilots and Copilots**

*Mohammed Saddoune, Francois Soumis, Atoosa Kasirzadeh*

**3 - Multi-model assembly line balancing with limited resources. A case in the textile industry**

*Jordi Pereira*

- 4 - Multi-criteria ambulance service scheduling problem - A case study of Hong Kong**  
King-Wah Anthony Pang

## ■ TA-23

Tuesday, 8:30-10:00 - Building CW, ground floor, Room 028

### Networks and Graphs

Stream: Graphs and Networks

Chair: *Frits Spijksma*

Chair: *Anna Nagurney*

- 1 - Heuristics for Analyzing Infeasibility in Flow Networks**  
*Imke Joormann*
- 2 - Observation and Analysis of the Braess Paradox in a Macroscopic Electrical Network**  
*Ladimer Nagurney, Anna Nagurney*
- 3 - Balanced Optimization with Vector Costs**  
*Frits Spijksma, Annette Ficker, Gerhard J. Woeginger*

## ■ TA-24

Tuesday, 8:30-10:00 - Building BM, 1st floor, Room 119

### Project Scheduling 1

Stream: Project Management and Scheduling

Chair: *Arik Sadeh*

- 1 - Use of the Mathematical Models in the EVM**  
*Tomas Subrt, Jan Bartoska, Petr Kucera*
- 2 - Optimal Overlapping Strategies for Projects with Interdependent Activities**  
*Gregory Gurevich, Baruch Keren, Zohar Laslo, Yossi Hadad*
- 3 - Measuring Projects' Success According to Their Characteristics**  
*Cristina Feniser, Arik Sadeh*

## ■ TA-25

Tuesday, 8:30-10:00 - Building BM, ground floor, Room 19

### Links between behavioural sciences and OR

Stream: Behavioural Operational Research

Chair: *Konstantinos Katsikopoulos*

- 1 - Behavioral Anomalies in Consumer Wait-or-Buy Decisions and Their Implications for Markdown Management**  
*Manel Baucells, Nikolay Osadchiy, Anton Ovchinnikov*
- 2 - Decision Analysis in the Nuclear Sector**  
*K. Nadia Papamichail, Simon French, Duncan Shaw*

- 3 - Statistical properties of decision environments**  
*Ozgur Simsek*

- 4 - Simple Models for Decision Analysis and Support? A Synthesis of the Results**  
*Konstantinos Katsikopoulos, Ian Durbach*

## ■ TA-26

Tuesday, 8:30-10:00 - Building BM, 1st floor, Room 109D

### Machine Learning for Analytics

Stream: Business Analytics and Intelligent Optimization

Chair: *Sebastian Maldonado*

- 1 - Credit Scoring with Support Vector Machine (SVM) considering Feature Selection via a Budget Constraint**  
*Juan Perez, Sebastian Maldonado, Cristian Bravo*
- 2 - Time series feature selection with SVR- an empirical evaluation for electric load forecasting**  
*Sebastian Maldonado, Sven F. Crone*
- 3 - Data driven sustainable mobility indicators**  
*Sheida Hadavi, Wouter Verbeke, Cathy Macharis*
- 4 - A model tree for mixed type data classification**  
*Chi-Hyuck Jun, Su-Dong Lee*

## ■ TA-27

Tuesday, 8:30-10:00 - Building BM, ground floor, Room 20

### Dynamic Programming 2

Stream: Dynamic Programming

Chair: *Lidija Zadnik Stirn*

- 1 - A hierarchical, multi-criteria and dynamic model of collaborative resource management**  
*Lidija Zadnik Stirn, Janez Krč, Vasja Leban, Petra Grosej, Špela Pezdevsek malovrh*
- 2 - A Semi-Markov Decision Model for routing aircrafts to two runways.**  
*Constantinos Karamatsoukis*
- 3 - Performance Analysis for Cold-rolling Inventory Model via Markov Decision Processes**  
*Jing Wu, Lixin Tang*
- 4 - Preference elicitation in dynamic social networks**  
*Przemyslaw Szufel, Marcin Czupryna, Bogumił Kamiński, Grzegorz Koloch*

## ■ TA-30

Tuesday, 8:30-10:00 - Building BM, 1st floor, Room 110

### Recent Advances in Dynamics of Variational Inequalities and Equilibrium Problems 1

Stream: Recent Advances in Dynamics of Variational Inequalities and Equilibrium Problems

Chair: *Patrizia Daniele*

- 1 - **A network model for organ transplants**  
*Patrizia Daniele, Valeria Caruso*
- 2 - **A Supply Chain Network Game Theory Model of Cybersecurity Investments with Nonlinear Budget Constraints**  
*Anna Nagurney, Patrizia Daniele, Shivani Shukla*
- 3 - **Service Provisioning Problem in Cloud and Multi-Cloud Systems**  
*Mauro Passacantando, Danilo Ardagna, Anna Savi*

## ■ TA-31

Tuesday, 8:30-10:00 - Building BM, 1st floor, Room 111

### Sports Analytics

Stream: OR in Sports

Chair: Lidia Angulo-Meza

- 1 - **Duckworth-Lewis Method and Optimization of the Projected Score Formula**  
*Rishikesh Parma, Viraj Phanse*
- 2 - **Wicket Clustering in Cricket**  
*Ajith Kumar, Uday Damodaran, Suresh Rajagopalan*
- 3 - **Distributing Financial Resources for Olympic Sports Using Parametric DEA and Variable Returns to Scale**  
*Lidia Angulo-Meza, João Carlos Soares de Mello, Renato Pescarini Valério, Juliana Quintanilha da Silveira*
- 4 - **Strategy Optimization in Sports - A Two-Scale Approach via Markov Decision Problems**  
*Susanne Hoffmeister, Jörg Rambau*

## ■ TA-33

Tuesday, 8:30-10:00 - Building BM, 1st floor, Room 113

### Emerging Applications of Data Mining and Computational Statistics 5

Stream: Computational Statistics

Chair: Pakize Taylan

Chair: Gerhard-Wilhelm Weber

Chair: Georgios Marinakos

- 1 - **Direct Marketing Analytics for Term Deposits Attraction**  
*Georgios Marinakos, Sophia Daskalaki*
- 2 - **Feature Extraction of Time-varying Process Data Based on Factor Analysis**  
*KyuChang Chang, Seung Hwan Park, Jun-Geol Baek*
- 3 - **Decision Tree Classification to Predict Effect of JPEG Compression on Images**  
*Jevgenij Tichonov, Olga Kurasova, Ernestas Filatovas*

## ■ TA-34

Tuesday, 8:30-10:00 - Building BM, 1st floor, Room 116

### Scheduling and Applications

Stream: Supply Chain Scheduling and Logistics

Chair: Malgorzata Sterna

- 1 - **Heuristics for Solving the Berth Allocation Problem**  
*Jakub Wawrzyniak, Maciej Drozdowski, Jakub Marszałkowski, Eric Sanlaville, Xavier Schepler*
- 2 - **Daily Pattern Formulation and Valid Inequalities for the Curriculum-based Course Timetabling Problem**  
*Niels-Christian Bagger, Guy Desaulniers, Jacques Desrosiers*
- 3 - **System Supporting Text Analysis**  
*Grzegorz Fenrich, Malgorzata Sterna*
- 4 - **Supply Process Optimization in Charitable Organizations**  
*Malgorzata Sterna, Mateusz Cichenski, Mateusz Jarus, Jaroslaw Szymczak*

## ■ TA-35

Tuesday, 8:30-10:00 - Building BM, ground floor, Room 17

### Supporting Wet Lab Experiment

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Andrzej Swierniak

- 1 - **Sensitivity Analysis in Biological Experiment Planning**  
*Malgorzata Kardyńska, Jaroslaw Smieja*
- 2 - **Method for Identification of Components of Secondary Metabolites Based on Mass Spectra**  
*Marcin Borowski*
- 3 - **Brain Magnetic Resonance Image Processing**  
*Krzysztof Psiuk-Maksymowicz, Damian Borys*
- 4 - **Machine Learning Methods as Tools in Drug Discovery Research: Application in Ligand-based Virtual Screening**  
*Agata Kurczyk*

## ■ TA-36

Tuesday, 8:30-10:00 - Building BM, ground floor, Room 18

### Scheduling in Healthcare 4

Stream: Scheduling in Healthcare

Chair: Sharon Hovav

- 1 - **MRI Block Scheduling at a Norwegian Hospital**  
*Anders N. Gullhav, Marielle Christiansen, Bjørn Nygreen, Mats M. Aarlott, Jon Erik Medhus*
- 2 - **Workforce Management for Integrated Healthcare Between Hospitals and Community: a Case Study on Chronic Kidney Disease**  
*Fang He*

- 3 - Stochastic Scheduling of Vaccine Deliveries in Large-scale Vaccination Supply Chains**  
*Sharon Hovav, Ilya Levner*

## ■ TA-38

Tuesday, 8:30-10:00 - Building BM, 1st floor, Room 109M

### Health Care Management 1

Stream: Health Care Management

Chair: Penka Petrova

- 1 - Applications of Operations Research and Intelligent Techniques in the Health Systems. A Bibliometric Analysis**  
*Marek Lubicz*
- 2 - The Relationship Between the Efficiency of Hip Fracture Surgeries and Patients Socio-Economic Index Using Two Stage Network DEA: the Case of Israel**  
*Zilla Sinuany-Stern, Simona Cohen Kadosh*
- 3 - Medical Care Within an OLG Economy with Realistic Demography**  
*Stefan Wrzaczek, Ivan Frankovic, Michael Kuhn*
- 4 - INN Prescribing or INN Substitution: A Hybrid Modelling Approach to Optimal Pharmaceutical Policy Decision Making**  
*Ross Kazakov, Penka Petrova*

## ■ TA-39

Tuesday, 8:30-10:00 - Building WE, 1st floor, Room 107

### Pricing and Revenue Management

Stream: Advances in Revenue Management

Chair: Luce Brotcorne

- 1 - Dynamic pricing in the vehicle ferry industry**  
*Christopher Bayliss*
- 2 - Revenue Management and Demand Side Management in the Energy Field**  
*Luce Brotcorne, Sezin Afsar, Patrice Marcotte, Gilles Savard*
- 3 - Dynamic Programming Algorithms for Optimal Upgrading**  
*David McCaffrey*

## ■ TA-40

Tuesday, 8:30-10:00 - Building WE, 1st floor, Room 108

### Mathematical Models in Macro- and Microeconomics 1

Stream: Mathematical Models in Macro- and Microeconomics

Chair: Vadim Strijov

Chair: Gerhard-Wilhelm Weber

- 1 - The Application of Time Series Models to a Data-driven Approach in the Newsvendor Problem**  
*Davood Pirayesh Neghab, Gabor Rudolf*

- 2 - The Added Value of Social Media in Sentiment Analysis**  
*Matthijs Meire, Dirk Van den Poel*

- 3 - The core regression for valuating real estate in Poland**  
*Rafał Zbyrowski*

## ■ TA-41

Tuesday, 8:30-10:00 - Building WE, 2nd floor, Room 209

### Finance and OR 2

Stream: Financial Mathematics and OR

Chair: Emel Savku

Chair: Gerhard-Wilhelm Weber

Chair: Mustafa Pinar

- 1 - Selling Sunscreen Products, Come Rain or Shine**  
*Xavier Brusset*
- 2 - Startup Company Valuation Using a Product Growth Model**  
*Pedro Pólvara*
- 3 - Optimal Investment in a Stochastic Factor Model under the Existence of Private Information**  
*Ioannis Baltas, Athanasios Yannacopoulos*

## ■ TA-42

Tuesday, 8:30-10:00 - Building WE, 1st floor, Room 120

### Dynamic models in game theory

Stream: Dynamic Models in Game Theory

Chair: Alessandra Buratto

- 1 - HIV vs. the Immune System: A Differential Game**  
*Alessandra Buratto, Rudy Cesaretto, Rita Zamarchi*
- 2 - Optimal Solution in a Cooperative Differential Game of Pollution Control**  
*Ekaterina Gromova*
- 3 - Slow and steady wins the race: approximating Nash equilibria in nonlinear quadratic tracking games**  
*Dmitri Blueschke, Viktoria Blueschke-Nikolaeva, Ivan Savin*
- 4 - A thorough analysis of dynamic oligopoly with sticky prices**  
*Agnieszka Wiszniewska-Matyszkiewicz, Marek Bodnar, Fryderyk Mirola*

## ■ TA-43

Tuesday, 8:30-10:00 - Building WE, ground floor, Room 18

### OR for Energy and Resource Efficiency

Stream: Optimization in Renewable Energy Systems

Chair: Katharina Stahlecker

- 1 - **Multi-criteria evaluation of transition pathways towards a sustainable energy system**  
*Katharina Stahlecker, Jutta Geldermann*
- 2 - **Use of MCDA in Constructing Strategic Action Portfolios**  
*Theodor Stewart*
- 3 - **Modelling renewables mitigation options in the Colombian power system**  
*Jose Lenin Morillo Carrillo, Mauricio Palma, Ricardo Delgado, Angela Ines Cadena*
- 4 - **Which is the optimal role that biomass and waste could play in a future energy system? - Linkage of biomass and waste supply models with energy models**  
*Amalia Pizarro*

## ■ TA-47

Tuesday, 8:30-10:00 - Building WE, 1st floor, Room 115

### Advances in Stochastic Modeling

Stream: Stochastic Modeling and Simulation in Engineering, Management and Science

Chair: *Raik Stolletz*

Chair: *Massimo Di Francesco*

- 1 - **Managing demand and supply uncertainty in Build-To-Order supply chains**  
*Ton de Kok, Jaap Arts*
- 2 - **Dependence among Single Stations in a Production Line and the Second Moment Result of the Theory of Constraints**  
*Kan Wu, Ning Zhao*
- 3 - **Nonparametric Knowledge Gradient Procedure**  
*Bogumił Kamiński*
- 4 - **Optimizing simulation parameters for stochastic empty container repositioning**  
*Massimo Di Francesco, Alexei Gaivoronski, Paola Zuddas*

## ■ TA-48

Tuesday, 8:30-10:00 - Building WE, 1st floor, Room 116

### Financial Modelling 1

Stream: Decision Making Modeling and Risk Assessment in the Financial Sector

Chair: *Sergio Ortobelli*

- 1 - **Macroscopic look at the Equity Markets**  
*Abdullah Alshelahi, Romesh Saigal*
- 2 - **Timing and hedging portfolio strategies with derivatives**  
*Sergio Ortobelli, Tomas Tichy, Filomena Petronio, Filomena Petronio*

- 3 - **High-frequency price discovery and price efficiency on interest rate futures**  
*Jing Nie*

## ■ TA-52

Tuesday, 8:30-10:00 - Building PA, Room C

### Multidisciplinary Applications of Global Optimization

Stream: Global Optimization

Chair: *Ahmet Sahiner*

Chair: *Hakan Altunay*

- 1 - **FuzzyLogic Modeling for Estimating Daily Global Solar Radiation in Turkey Comparison with (DMI) Data**  
*Idris Abdulhamed, Ahmet Sahiner, Murat Ozturk*
- 2 - **Fuzzy Logic Modeling for Prediction of the Nuclear Tracks**  
*Shehab Ibrahim, Ahmet Sahiner, Ahmed Ibrahim*
- 3 - **A modified algorithm for solving derivative-free optimizations**  
*Yongxia Liu, Lixin Tang*
- 4 - **Continuous Energy Values of 3-Amino-4-Nitraminofurazan Molecule by Modern Optimization Techniques**  
*Sumeyya Koman, Fatih Uzun, Ahmet Sahiner*

## ■ TA-54

Tuesday, 8:30-10:00 - Building PA, Room B

### Large scale structured optimization 2

Stream: Convex Optimization

Chair: *Silvia Villa*

Chair: *Saverio Salzo*

- 1 - **Accelerated and preconditioned Douglas-Rachford algorithms for the solution of variational imaging problems**  
*Kristian Bredies, Hongpeng Sun*
- 2 - **Asymmetric forward-backward-adjoint splitting for solving monotone inclusions involving three operators**  
*Puya Latafat, Panagiotis Patrinos*
- 3 - **A variable metric stochastic aggregated gradient algorithm for convex optimization**  
*Andreas Themelis, Silvia Villa, Panagiotis Patrinos, Alberto Bemporad*

## ■ TA-56

Tuesday, 8:30-10:00 - Building CW, 1st floor, Room 122

### Academic-Practitioner Bazaar

Stream: Workshops and roundtable

Chair: *Galina Andreeva*

- 1 - **Academic-Practitioner Bazaar**  
*Galina Andreeva*

## Tuesday, 10:30-12:00

### ■ TB-01

Tuesday, 10:30-12:00 - Building CW, AULA MAGNA

#### Keynote Gerrit Timmer

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Ruth Kaufman

- 1 - **Making an Impact with OR; Lessons Learned from 35 Years of Experience in Applying OR**  
*Gerrit Timmer*

### ■ TB-02

Tuesday, 10:30-12:00 - Building CW, 1st floor, Room 7

#### Rough Sets in Decision I

Stream: Rough Sets in Decision

Chair: Jerzy Grzymala-Busse

- 1 - **Toward interactive feature selection - rough set perspective**  
*Dominik Ślęzak*
- 2 - **Applying the principle of dominance to the multi-criteria search for a relevant web content**  
*Ayrton Benedito Gaia do Couto, Luiz F. Autran M. Gomes*
- 3 - **Rough sets in social indicators research**  
*Francisco Gutierrez Sanin*

### ■ TB-03

Tuesday, 10:30-12:00 - Building CW, 1st floor, Room 13

#### Preference Learning 2

Stream: Preference Learning

Chair: Willem Waegeman

- 1 - **Paired comparisons and least squares on graphs: a statistical perspective**  
*Ori Davidov*
- 2 - **Online learning of isotonic functions**  
*Wojciech Kotłowski*
- 3 - **Recipe construction with preference learning methods**  
*Willem Waegeman*

### ■ TB-04

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 6

#### Some results on optimization, simulation and multicriteria decision making

Stream: Recent Developments on Optimization and Some Results on Game Theory

Chair: Gülser Köksal

- 1 - **Dynamic capabilities in new product development and its effects on firm performance**  
*Mohammad Darvizeh, Jian-Bo Yang, Steve Eldridge*
- 2 - **Multi-winner scoring election methods: Condorcet consistency and paradoxes**  
*Mostapha Diss*
- 3 - **Confidence interval estimation of Weibull parameters and percentiles in small samples via Bayesian inference**  
*Burak Birgoren, Meryem YalÇinkaya*
- 4 - **A guideline for choosing parameters of multivariate loss functions**  
*Gülser Köksal, Gökçe Özkan*

### ■ TB-05

Tuesday, 10:30-12:00 - Building CW, 1st floor, Room 8

#### Practical Applications of Multiobjective Optimization

Stream: Multiobjective Optimization

Chair: Karthik Sindhya

Chair: Ana Belen Ruiz

- 1 - **High Performance Multi-objective Voyage Planning**  
*Kateryna Mishchenko, Mats Molander*
- 2 - **Multiobjective Optimization in Assessment of Transmission Network Compensation Strategy**  
*Karthik Sindhya, Tuomas Rauhala, Tinkle Chugh, Yaochu Jin, Kaisa Miettinen, Jussi Hakanen*
- 3 - **Selection Beyond Fitness: Accounting for Differential Costs of Estimating Fitness**  
*Richard Allmendinger, Julia Handl, Joshua Knowles*
- 4 - **A Multi-Objective Simulation-Based Optimization Algorithm to Determine Ordering Parameters in Divergent Supply Chains**  
*Mualla Gonca Avci, Hasan Selim*

### ■ TB-06

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 2

#### Complex preference learning in MCDA 1

Stream: Multiple Criteria Decision Aiding

Chair: José Rui Figueira

- 1 - **ELECTRE TRI-nB: A new multiple criteria ordinal classification method**  
*José Rui Figueira, Eduardo Fernandez, Jorge Navarro, Bernard Roy*
- 2 - **Multicriteria selection based on lexicographical filter**  
*Yves De Smet, Jean-Philippe Hubinont, José Rui Figueira*

- 3 - Interactive Multiobjective Optimization guided by Dominance-based Rough Set Approach for portfolio facility location problems**  
*Maria Barbati, Salvatore Greco*

## ■ TB-07

Tuesday, 10:30-12:00 - Building CW, 1st floor, Room 123

### EURO Doctoral Dissertation Award

Stream: EURO Awards and Journals

Chair: *Ahti Salo*

- 1 - Planning and Operations in Fully Renewable Electric Energy Systems**  
*Ruth Dominguez, Antonio J. Conejo*
- 2 - Theoretical and Practical Contributions on Scatter Search, Variable Neighbourhood Search and Matheuristics for 0-1 Mixed Integer Programs**  
*Raca Todosijevic*
- 3 - Reactive Robustness and Integrated Approaches for Railway Optimization Problems**  
*Joergen Haahr*

## ■ TB-08

Tuesday, 10:30-12:00 - Building CW, 1st floor, Room 9

### IBM Research Applications 1

Stream: IBM Research Applications

Chair: *Marco Laumanns*

Chair: *Susara van den Heever*

Chair: *Martin Mevissen*

Chair: *Xavier Nodet*

- 1 - IBM Optimization Mine to Ship**  
*Fabio Tiozzo, Kameshwaran Sampath*
- 2 - Demand and Supply Analytics in a Crowdsourcing Platform of Software Development**  
*Ta-Hsin Li*
- 3 - Mixed Integer Polynomial Optimisation in Power Systems**  
*Martin Mevissen, Bissan Ghaddar, Jakub Marecek, Jonas Christoffer Villumsen*
- 4 - Integrating Passenger Assignment and Timetabling for Capacitated Public Transit Networks**  
*Marco Laumanns, Jacint Szabo, Maya Voegeli*

## ■ TB-09

Tuesday, 10:30-12:00 - Building CW, 1st floor, Room 12

### MINLP Software

Stream: Mathematical Programming Software

Chair: *Timo Berthold*

- 1 - Advances in the Xpress MINLP solver**

*Zsolt Csizmadia*

- 2 - Using Functional Programming to recognize Named Structure in an Optimization Problem: Application to Pooling**

*Ruth Misener, Francesco Cecon*

- 3 - A Branch-and-Price Algorithm for the Recursive Circle Packing Problem**

*Benjamin Müller, Ambros Gleixner, Stephen Maher, Joao Pedro Pedroso*

## ■ TB-10

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 1

### AHP Applications 2

Stream: Analytic Hierarchy Process / Analytic Network Process

Chair: *Alessio Ishizaka*

- 1 - Evaluation of ecodestinatons using Analytic Hierarchy Process**  
*Erdem Aksakal*
- 2 - AHP analysis of the repurchase influence priority on six motive factors in seven steps of an e-customer behavior process**  
*Xiangping Ji, Si Yuan Mao, Yuxin Xie, Hong Seung Ko*
- 3 - Sorting municipalities in Umbria according to the risk of wolf attacks with AHP Sort II**  
*Alessio Ishizaka, Francesco Miccoli*

## ■ TB-11

Tuesday, 10:30-12:00 - Building CW, 1st floor, Room 127

### Discrete and Global Optimization 4

Stream: Discrete and Global Optimization

Chair: *Meral Azizoglu*

Chair: *Derya Dinler*

- 1 - An Integer L-shaped Benders decomposition for a two-stage Stochastic Facility Location Problem**  
*Emine Gundogdu*
- 2 - A Blood Distribution System: An Application to Turkish Red Crescent**  
*Atil Kurt, Meral Azizoglu, Ferda Can Cetinkaya*
- 3 - Robust Semi-supervised Clustering with Polyhedral and Circular Uncertainty**  
*Derya Dinler, Mustafa Kemal Tural*
- 4 - A New Scheduling Problem for Hybrid Cellular Manufacturing Systems in Dual Resource Constrained Environments**  
*Omer Faruk Yilmaz, M. Bülent Durmusoglu*

## ■ TB-12

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 029

### VeRoLog: Routing In Practice 2

Stream: Vehicle Routing and Logistics Optimization

Chair: *Philip Kilby*

**1 - Linear Complexity Algorithms for Compact Routes in the VRP**

*Philip Kilby, Dan Popescu*

**2 - Crowdsipping in PDPTW - Effects of Different Compensation Schemes**

*Lars Dahle, Marielle Christiansen, Henrik Andersson*

**3 - Is Electric Commercial Vehicle a Cost-effective Alternative to Diesel Truck in Urban Delivery?**

*Jane Lin, Wei Zhou*

**4 - The Vehicle Routing Problem with inconsistency constraints**

*Maaïke Hoogeboom, Wout Dullaert, David Lai*

■ **TB-13**

*Tuesday, 10:30-12:00 - Building CW, ground floor, Room 3*

**VeRoLog: Exact methods for VRP variants**

Stream: Vehicle Routing and Logistics Optimization

Chair: Paolo Gianessi

**1 - Column Generation Based Algorithms for a VRP with Time Windows and Variable Departure Times**

*Stefano Michelini, Yasemin Arda, Hande Kucukaydin*

**2 - An Exact Solution Approach for the Multi-Commodity Two-Echelon Vehicle Routing Problem with Time Windows**

*Fardin Dashty Saridarq, Nico Dellaert, Tom Van Woensel, Teodor Gabriel Crainic*

**3 - New findings regarding the most used formulations of vehicle routing problems**

*Pedro Munari*

**4 - A Branch & Cut algorithm for the Multi-trip Vehicle Routing Problem with Time Windows**

*Paolo Gianessi, Diego Cattaruzza*

■ **TB-14**

*Tuesday, 10:30-12:00 - Building CW, 1st floor, Room 125*

**MILP Applications 2**

Stream: Mixed-Integer Linear and Nonlinear Programming

Chair: Jörg Ries

Chair: Daniel Guimarans

**1 - Scheduling ground operations for improved aircraft turnaround performance: A Turkish low-cost airline case study**

*Yagmur Simge Gok, Ammar Al-Bazi, Cemalettin Ozturk, Daniel Guimarans*

**2 - Urban-Planning MIP Model With Connectivity Constraints**

*Alena Melnikava, Philippe Michelon, Cyrille Genre-Grandpierre, Serigne Gueye*

**3 - Mat-heuristic procedure based on Lagrangean relaxation for the Link Constrained Steiner Tree Problem**

*Luigi Di Puglia Pugliese, Manlio Gaudioso, Francesca Guerriero, Giovanna Miglionico*

**4 - Environmental impact of integrated model for warehouse and inventory planning**

*Jörg Ries, Konstantin Biel*

■ **TB-15**

*Tuesday, 10:30-12:00 - Building CW, 1st floor, Room 126*

**Mixed-Integer-Nonlinear Programming for Gas Networks**

Stream: Optimization of Gas Networks

Chair: Lars Schewe

**1 - A Penalty Alternating Direction Method for Nonconvex MINLPs in Gas Transport**

*Martin Schmidt, Bjoern Geissler, Antonio Morsi, Lars Schewe*

**2 - Using a Longest Edge Bisection to Solve Mixed-Integer Nonlinear Programs by Mixed-Integer Linear Program Relaxations**

*Robert Burlacu, Lars Schewe*

**3 - Tight Convex Relaxations for Gas Expansion Planning**

*Ralf Lenz, Felipe Serrano, Robert Schwarz*

**4 - Approximate Convex Decomposition in Gas Network Optimization**

*Benjamin Hiller, Tom Walther*

■ **TB-16**

*Tuesday, 10:30-12:00 - Building CW, 1st floor, Room 128*

**Kidney exchange programs**

Stream: Healthcare Logistics

Chair: Joao Pedro Pedroso

Chair: Ana Viana

**1 - Position-Indexed Formulations for Kidney Exchange**

*James Trimble, John Dickerson, David Manlove, Benjamin Plaut, Tuomas Sandholm*

**2 - Small Representations of Big Kidney Exchange Graphs**

*John Dickerson, Aleksandr Kazachkov, Ariel Procaccia, Tuomas Sandholm*

**3 - Long Term Management of Multi-Country Kidney Exchange Programs**

*Ana Viana, Joao Pedro Pedroso*

- 4 - Nash equilibria in the kidney exchange game**  
*Margarida Carvalho, Andrea Lodi, Joao Pedro Pedrosa, Ana Viana*

## ■ TB-17

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 0210

### Retail Inventory Management 1

Stream: Demand and Supply Management in Retail and Consumer Goods

Chair: Richa Jain

Chair: *Pedro Amorim*

- 1 - Optimal continuous review policy for online retailing considering customer order time windows**  
*Gonçalo Figueira, Pedro Amorim*
- 2 - Customer impatience and optimal service level**  
*Agust Thorbjornsson, Pall Jensson, Thorlakur Karlsson, Armann Ingolfsson, Eyjolfur Asgeirsson*
- 3 - Buyer-backed purchase-order financing for supplier facing yield uncertainty**  
*Richa Jain, Matthew Reindorp, Arun Chockalingam*

## ■ TB-18

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 023

### Flexibility

Stream: Production and Operations Management

Chair: Ton de Kok

- 1 - Customer Order Management in Group Companies under Smart Cloud Manufacturing**  
*Ting Zhang*
- 2 - Setting optimal planned leadtimes in a configure to order manufacturing system**  
*Sjors Jansen, Zumbul Atan, Ton de Kok*
- 3 - Empirical Bayes Approach to Designing Screening Procedures with Inspection Error**  
*Young Chun*
- 4 - Design of Optimal Volume Flexible Systems with Implementation Latency**  
*Abhijit Deshmukh, KiHyung Kim*

## ■ TB-19

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 021

### Location and tree problems

Stream: Telecommunications and Network Optimization

Chair: Dimitri Papadimitriou

- 1 - An Exact Algorithm for the Optimal Mapping of Cloud Virtual Machines**  
*Guanglei Wang, Walid Ben-Ameur, Adam Ouorou*

- 2 - Leveraging Web Analytics for Automatically Generating Mobile Navigation Design Models**  
*Fabrizio Rossi, Andrea Salini, Ivano Malavolta*

- 3 - A dual-ascent-based branch-and-bound framework for the prize-collecting Steiner tree and related problems**  
*Martin Luipersbeck, Markus Leitner, Ivana Ljubic, Markus Sinnl*

- 4 - Combined routing - multi-level facility location problem**  
*Dimitri Papadimitriou*

## ■ TB-20

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 022

### How OR found its way into universities 1

Stream: How OR found its way into Universities

Chair: Jakob Krarup

- 1 - From control rooms to common rooms: how OR found its way into UK Universities**  
*Graham Rand*
- 2 - OR in Poland - historical remarks**  
*Jan Weglarz*
- 3 - Development of OR at South African Universities**  
*Theodor Stewart*

## ■ TB-21

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 025

### Vehicle (re)scheduling

Stream: Public Transportation

Chair: Leo Kroon

- 1 - A Multi-Depot Vehicle Routing Problem with Travel Costs and Customer Costs for Tamping Scheduling**  
*Franziska Heinicke*
- 2 - Computational Method to Assess the Service Process Capacity of a Shunting Yard**  
*Bob Huisman*
- 3 - The Simultaneous Vehicle Scheduling and Passenger Service Problem with Flexible Dwell Times**  
*Joao Fonseca, Evelien van der Hurk, Allan Larsen, Roberto Roberti, Stefan Ropke*
- 4 - Disruption management and maintenance routing**  
*Leo Kroon, Marie Schmidt, Joris Wagenaar*

## ■ TB-22

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 027

### Applications in Combinatorial Optimization 2

Stream: Combinatorial Optimization

Chair: José Fernando Oliveira

- 1 - A strategic capacity planning MILP model with multiple-generation products' renewal including demand and price cannibalization**  
*Gorkem Yilmaz, Amaia Lusa, Ernest Benedito*

- 2 - Optimization of sustainable logistic chains: saleable products reached from wastes**  
*Ana Amaro, Rémy António, Ana Barbosa-Povoa*

- 3 - Optimization of waste collection systems: Development and application of a decision model**  
*Chiara Magrini, Daniele Vigo*

- 4 - Optimal Scheduling of Evaporation Lines with Time-varying Capacities and Decaying Performance**  
*Carlos Gómez Palacín, José Luis Pitarch Pérez, Mendez Carlos, Cesar de Prada*

## ■ TB-23

Tuesday, 10:30-12:00 - Building CW, ground floor, Room 028

### Graph Algorithms and Graph Modelling

Stream: Graphs and Networks

Chair: *Raphael Delhome*

Chair: *Amad Mourad*

- 1 - Efficient approach for the maximum clique problem based on machine learning**  
*Alexey Nikolaev*
- 2 - Finding a Feasible Solution to Restricted, Large-Scale Transportation Problems**  
*Jörn Schrieber, Dominic Schuhmacher, Anita Schöbel*
- 3 - Calibration of Time-Dependent Contraction Hierarchies based on Sensitivity Analysis**  
*Raphael Delhome, Romain Billot, Nour-Eddin El Faouzi*
- 4 - Skip Graph for Improving Lookup in P2P Architectures**  
*Amad Mourad, Abdelmalek Boudries, Djamil Aïssani, Zineb Maouche, Farida Guenounou*

## ■ TB-24

Tuesday, 10:30-12:00 - Building BM, 1st floor, Room 119

### Scheduling and Applications

Stream: Project Management and Scheduling

Chair: *Florian Jaehn*

- 1 - New exact and approximation algorithms for the twin robots scheduling problem**  
*Andreas Wiehl*
- 2 - A Fair Placement of Distribution Tours Among Sub-contractors**  
*Christian Billing, Thomas Wensing*
- 3 - Scheduling Parallel Injection Machines with Setups**  
*Marcin Kulus, Marek Goslawski, Joanna Józefowska*

- 4 - Scheduling Crossover Cranes at a Container Block During Seaside Peak Times**

*Anne Ehleiter, Florian Jaehn*

## ■ TB-25

Tuesday, 10:30-12:00 - Building BM, ground floor, Room 19

### Emotions and strategic thinking

Stream: Behavioural Operational Research

Chair: *Raimo P. Hämmäläinen*

- 1 - Modelling a Strategic Thinking Capability**  
*Leon Young*
- 2 - Inquiry and Advocacy in Human Interactions - A Psychophysiological Study**  
*Ilkka Leppänen, Raimo P. Hämmäläinen, Esa Saarinen, Mikko Viinikainen*
- 3 - Context Matters: Effects of Emotional Attachment and Information Overload**  
*Pekka Malo, Pekka Korhonen, Tommi Pajala, Outi Somervuori, Niklas Ravaja, Jyrki Wallenius*
- 4 - PoSiTeams 2.0 - Positive Systems Intelligent Teams, an Agent-Based Simulator for Studying Group Behavior**  
*Raimo P. Hämmäläinen, Teemu Tiinanen, Juha Törmänen, Esa Saarinen*

## ■ TB-26

Tuesday, 10:30-12:00 - Building BM, 1st floor, Room 109D

### Stochastic data modelling

Stream: Business Analytics and Intelligent Optimization

Chair: *Vadim Strijov*

Chair: *Arsentii Kuzmin*

- 1 - Thematic Classification for EURO/IFORS Conference Using Expert Model**  
*Arsentii Kuzmin, Alexander Aduenko, Vadim Strijov*
- 2 - Large-scale time series forecasting**  
*Vadim Strijov, Anastasia Motrenko, Mikhail Kuznetsov*
- 3 - A transportation distance based stability results for linear Markov decision processes**  
*Adriana Kiszka, David Wozabal*

## ■ TB-27

Tuesday, 10:30-12:00 - Building BM, ground floor, Room 20

### Data Science in Optimisation

Stream: Data Science in Optimisation

Chair: *Andrew J. Parkes*

- 1 - An ensemble scheduling optimization model and solution algorithm for molten iron transport system considering uncertainty and real-time response**  
*Yang Yang, Lixin Tang*

- 2 - **Machine Learning of Local Search Heuristics in SAT**  
*Andrew J. Parkes, Andrew Burnett*
- 3 - **Supply-function equilibrium for transmission-constrained electricity markets**  
*Keith Ruddell*
- 4 - **Dimensionality Reduction on Mixed-Type Datasets Including Non-Numeric Attributes**  
*Chung-Chian Hsu, Yu-Ting Lu, Jhen-Wei Wu*

## ■ TB-29

Tuesday, 10:30-12:00 - Building BM, ground floor, Room 7

### Soft OR and Problem Structuring Methods 1

Stream: Soft OR and Problem Structuring Methods

Chair: *Doris Behrens*

Chair: *Jennifer Morgan*

- 1 - **Behavioural implications of goal setting in standardised back-office tasks: An experimental investigation**  
*Ann-Kathrin Hirzel, Michael Leyer*
- 2 - **Strategic Options for Financial Sustainability in Brazilian metrological laboratories**  
*Mischel Carmen N. Belderrain, Rafael Ichihara, Alberto Paucar-Caceres*
- 3 - **Regional development strategy: use of the DEMATEL method.**  
*Magdalena Wagner*
- 4 - **Which Drivers Should Transport Your Cargo? Empirical Evidence from Long-haul Transport**  
*Jelle de Vries, Debjit Roy, René de Koster*

## ■ TB-30

Tuesday, 10:30-12:00 - Building BM, 1st floor, Room 110

### Recent Advances in Dynamics of Variational Inequalities and Equilibrium Problems 2

Stream: Recent Advances in Dynamics of Variational Inequalities and Equilibrium Problems

Chair: *Patrizia Daniele*

- 1 - **Equilibria for semi-infinite programming**  
*Giancarlo Bigi, Simone Sagratella*
- 2 - **On minimax theorems for lower semicontinuous functions in Hilbert spaces**  
*Monika Syga, Ewa Bednarczuk*
- 3 - **Freight Service Provision for Disaster Relief: A Competitive Network Model with Computations**  
*Anna Nagurney*

## ■ TB-31

Tuesday, 10:30-12:00 - Building BM, 1st floor, Room 111

### Multiple Criteria in Humanitarian Logistics and Development

Stream: Humanitarian Operations

Chair: *Begona Vitoriano*

- 1 - **A multicriteria optimization approach to integrally deploy humanitarian logistic operations during floods**  
*Christopher Mejía-Argueta, Juan Gaytán, Rafael Caballero, Julian Molina, Begona Vitoriano*

- 2 - **Multicriteria decision-making models for last mile distribution of humanitarian aid**  
*Begona Vitoriano, M. Teresa Ortuno, Gregorio Tirado, José María Ferrer, F. Javier Martin-Campo*

- 3 - **Sizing and cost estimation of long-term maintenance systems to provide sustainable energy for rural development**  
*M. Teresa Ortuno, Begona Vitoriano, F. Javier Martin-Campo, Javier León, Luis Miguel Carrasco, Luis Navarte*

- 4 - **Improving the accessibility after a disaster: A double ant colony system**  
*Antonio Jiménez-Martín, Víctor Sacristán, Alfonso Mateos*

## ■ TB-33

Tuesday, 10:30-12:00 - Building BM, 1st floor, Room 113

### Emerging Applications of Data Mining and Computational Statistics 6

Stream: Computational Statistics

Chair: *Pakize Taylan*

Chair: *Gerhard-Wilhelm Weber*

Chair: *Dong Hwan Kim*

- 1 - **Identifying Quasi Equally Informative Subsets in Multi-objective Feature Selection Problems for Classification**  
*Gulsah Karakaya, Stefano Galelli, Selin Damla Ahipasaoglu, Riccardo Taormina*

- 2 - **Machine Learning Approaches towards Knowledge Extraction and Exploitation of Fleet Data**  
*Subanatarajan Subbiah, Alexis-Sarda Espinosa, Sascha Rosbach, Simone Turrin*

- 3 - **Kernel LDA-based Rotation Forest for Improvement of Classification performance**  
*Dong Hwan Kim, Seung Hwan Park, Jun-Geol Baek*

- 4 - **Performance of Big Data Business Analytics**  
*Marijana Zekic-Susac, Adela Has*

## ■ TB-34

Tuesday, 10:30-12:00 - Building BM, 1st floor, Room 116

### Rail Operations and Operations of Container Terminals

Stream: Supply Chain Scheduling and Logistics

Chair: *Alena Otto*

Chair: *Jenny Nossack*

**1 - Scheduling Planned Maintenance Activities: A Meta-heuristic Approach**

*Sundaravalli Narayanaswami*

**2 - Static Timetable Re-Scheduling for Work Maintenance Operations**

*Samuel Deleplanque*

**3 - Shunting Operations at Flat Yards: Retrieving Freight Railcars from Storage Tracks**

*Kilian Seifried, Florian Jaehn, Alena Otto*

**4 - Container Dispatching and Conflict-Free Yard Crane Routing in an Automated Container Terminal**

*Jenny Nossack, Dirk Briskorn, Erwin Pesch*

■ **TB-35**

*Tuesday, 10:30-12:00 - Building BM, ground floor, Room 17*

**3D Structure Prediction and Evaluation**

Stream: Computational Biology, Bioinformatics and Medicine

Chair: *Piotr Lukasiak*

**1 - Predicting microRNA Structure, Dynamics, and Function**

*Francois Major*

**2 - RNAComposer and 3D Structure Prediction with Module Substitutions**

*Marta Szachniuk, Maciej Antczak, Mariusz Popenda, Tomasz Żok, Joanna Sarzynska*

**3 - Computational Strategy for Consensus-based Ranking of 3D Models of Biomolecules**

*Piotr Lukasiak, Tomasz Ratajczak, Maciej Antczak, Thomas Villmann*

■ **TB-36**

*Tuesday, 10:30-12:00 - Building BM, ground floor, Room 18*

**Information and Intelligent Systems 1**

Stream: Information and Intelligent Systems

Chair: *Roman Senkerik*

Chair: *Gerhard-Wilhelm Weber*

**1 - EIV Regression with Bounded Error Distributions and Generalized Linear-Fractional Programming**

*Michal Cerny, Milan Hladik*

**2 - Developing an Air Traffic Control Difficulty Index Using Aircraft Trajectory Information**

*Sakae Nagaoka, Mark Brown*

**3 - Green Virtual Network Functions Placement Under Uncertainty Constraints**

*Antonio Marotta, Andreas Kassler*

**4 - Symmetry Breaking in Mixed Integer Programming Formulations for Blocking Two-level Orthogonal Experimental Designs**

*Nha Vo-Thanh, Peter Goos, Raf Jans, Eric Schoen*

■ **TB-38**

*Tuesday, 10:30-12:00 - Building BM, 1st floor, Room 109M*

**Health Care Management 2**

Stream: Health Care Management

Chair: *Mohamed Cissé*

**1 - Finding Good Solution Subspaces in Nurse Scheduling**

*Atsuko Ikegami, Masaya Hasebe, Koji Nonobe*

**2 - Exploring Bed Management Behaviour Through Un-supervised Neural Networks**

*Michele Sonnessa, Marina Resta, Elena Tanfani, Angela Testi*

**3 - Resource Allocation and Interday Appointment Scheduling in Primary Care**

*Matthias Schacht, Brigitte Werners, Lara Wiesche*

**4 - A Hybrid Genetic Algorithm for Home Health Care Routing Problem**

*Mohamed Cissé*

■ **TB-39**

*Tuesday, 10:30-12:00 - Building WE, 1st floor, Room 107*

**Applications in Decision Making & Decision Analysis**

Stream: Decision Support Systems

Chair: *Boris Delibasic*

Chair: *Isabelle Linden*

**1 - Incorporating value judgements in measuring the regional competitiveness of Peru**

*Charles Vincent*

**2 - Design of an Information System for Analyzing the Performance of Continuous Production Systems**

*Volkan Sönmez, Murat Caner Testik*

**3 - Decision Tables in the Qualitative Multi-Criteria Method DEX: Assessment of Completeness, Consistency, Monotonicity, Linearity and Symmetricity**

*Marko Bohanec*

■ **TB-40**

*Tuesday, 10:30-12:00 - Building WE, 1st floor, Room 108*

**Mathematical Models in Macro- and Microeconomics 2**

Stream: Mathematical Models in Macro- and Microeconomics

Chair: *Gerhard-Wilhelm Weber*

Chair: *Ying-Chin Ho*

Chair: *Duan Li*

**1 - A Supportive Pricing Model for Small Suppliers with Purchase Order Financing**

*Andy Wu*

**2 - Short Selling and Liquidity**

*Bo Liu*

**3 - A Study on the Operational Problems at the Inbound Side of a Distributor Cross Docking Workplace**

*Ying-Chin Ho, Chih-Feng Chou*

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■ **TB-41**

*Tuesday, 10:30-12:00 - Building WE, 2nd floor, Room 209*

**Finance and OR 3**

Stream: Financial Mathematics and OR

Chair: *Nuray Celebi*

Chair: *Gerhard-Wilhelm Weber*

Chair: *Ali Hamidoglu*

**1 - Financial Condition Index: Could it be a Better Policy Instrument for Identifying Financial Risks for an Economy?**

*Sayan Banerjee*

**2 - Forth Order Stochastic Dominance Efficiency Test and an Empirical Evaluation**

*Nasim Dehghan Hardoroudi, Markku Kallio*

**3 - Some Tests for Stochastic Dominance Efficiency**

*Markku Kallio, Nasim Dehghan Hardoroudi*

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■ **TB-42**

*Tuesday, 10:30-12:00 - Building WE, 1st floor, Room 120*

**Energy in the context of the Post Paris Climate policy**

Stream: Long Term Planning in Energy, Environment and Climate

Chair: *Sandrine Selosse*

**1 - Biofuel Potential in Mexico: Land Use, Economic and Environmental Effects**

*Hector Nunez*

**2 - Towards a 1.5 degree compatible energy system for France**

*Ariane Millot, Edi Assoumou, François Briens, Rémy Doudard, Thomas Le Gallic, Nadia Maïzi*

**3 - The Post-Paris climate policy and the decarbonisation of the energy system**

*Sandrine Selosse*

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■ **TB-43**

*Tuesday, 10:30-12:00 - Building WE, ground floor, Room 18*

**Optimization in Renewable Energy Systems 2**

Stream: Optimization in Renewable Energy Systems

Chair: *Andres Ramos*

**1 - Analysis of Operation Reserves in a Hydrothermal Electric System with High Wind Power Share under Demand and Wind Power Uncertainties**

*Andres Ramos, Germán Morales-Espana, Michel Rivier, Javier García-González, Jesus M. Latorre*

**2 - Robust Unit Commitment with Dispatchable Wind: An LP Reformulation of the Second Stage**

*Germán Morales-Espana, Álvaro Lorca, Laura Ramirez-Elizondo, Mathijs de Weerd*

**3 - A binary-real coded electromagnetism-like algorithm for wind farm layout optimization**

*Alkin Yurtkuran*

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■ **TB-47**

*Tuesday, 10:30-12:00 - Building WE, 1st floor, Room 115*

**Numerical and Simulation Methods in Finance**

Stream: Numerical and Simulation Methods in Finance

Chair: *Paulo Rotela Junior*

Chair: *Begoña Gutiérrez-Nieto*

Chair: *Mustafa Pinar*

**1 - A Non-Linear Programming Approach to Extract the Physical Distribution of Asset Price from Intraday Option Prices**

*Yang Zhang, Julian Williams, Fabio Massacci*

**2 - Application of Mathematical Programming Methods for Public Debt Management**

*Leszek Klukowski*

**3 - A Comparison of Algorithms for Profit Scoring: an Application to P2P Lending**

*Begoña Gutiérrez-Nieto, Carlos Serrano*

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■ **TB-48**

*Tuesday, 10:30-12:00 - Building WE, 1st floor, Room 116*

**Financial Modelling 2**

Stream: Decision Making Modeling and Risk Assessment in the Financial Sector

Chair: *Bertrand Tavin*

**1 - Asset liability management with capital injections and withdrawals**

*Claudio Fontana*

**2 - Preparing for Basel IV in credit risk: Incorporating Probation Period within a survival model for Loss Given Default**

*Richard Wood*

**3 - Measuring exposure to dependence risk with random Bernstein copula scenarios.**

*Bertrand Tavin*

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■ **TB-52**

*Tuesday, 10:30-12:00 - Building PA, Room C*

**Vector and Set-Valued Optimization I**

Stream: Vector and Set-Valued Optimization

Chair: *Lidia Huerga*

**1 - On the existence of directional derivatives of cone-convex mappings**

*Ewa Bednarczuk, Krzysztof Leśniewski*

**2 - Generalized Asymptotic Functions and Applications in Multiobjective Optimization**

*Felipe Lara*

**3 - Some Useful Set-Valued Maps in Set Optimization**

*Ruben Lopez, Elvira Hernández*

**4 - Limit Behaviour and Nonlinear Scalarization of Approximate Efficient Solutions in Vector Optimization**

*Lidia Huerga, César Gutiérrez, Bienvenido Jiménez, Vicente Novo*

**■ TB-53**

*Tuesday, 10:30-12:00 - Building PA, Room A*

**Methodological Advancements in Metaheuristics**

Stream: Metaheuristics

Chair: *Alberto Santini*

**1 - Design of Metaheuristics for Matheuristics: The Special Case of Column Generation**

*Marc Sevaux, Fabián Castaño*

**2 - Impact of Solution Methodology Parameters on a Flexible Integrated Supply Chain Model**

*Elham Behmanesh, Jürgen Pannek*

**3 - Assisting the Developer: Characterization of Neighborhood Behaviors**

*Patrick De Causmaecker, Nguyen Thi Thanh Dang*

**4 - A Comparison of Acceptance Criteria for the Adaptive Large Neighbourhood Search Metaheuristic**

*Alberto Santini, Stefan Ropke, Lars Magnus Hvattum*

**■ TB-54**

*Tuesday, 10:30-12:00 - Building PA, Room B*

**Recent advances in first order methods**

Stream: Convex Optimization

Chair: *Yura Malitsky*

**1 - Massive Douglas-Rachford splitting**

*Dirk Lorenz*

**2 - Adaptive Smoothing Algorithms for Nonsmooth Composite Convex Minimization**

*Quoc Tran-Dinh*

**3 - Computational regularization in learning and inverse problems**

*Silvia Villa*

**Tuesday, 12:30-14:00**

**■ TC-01**

*Tuesday, 12:30-14:00 - Building CW, AULA MAGNA*

**Keynote Emma Hart**

Stream: Plenary, Keynote and Tutorial Sessions

Chair: *David Pisinger*

**1 - Lifelong Learning for Optimisation**

*Emma Hart*

**■ TC-02**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 7*

**Rough Sets in Decision II**

Stream: Rough Sets in Decision

Chair: *Dominik Ślęzak*

Chair: *Jerzy Błaszczyński*

**1 - Mining incomplete data - A rough set approach**

*Jerzy Grzymala-Busse*

**2 - Controlling decisions in incomplete information systems**

*Piero Pagliani*

**3 - VC-DRSArank - rough-set-based learning method for multicriteria ranking**

*Marcin Szelag, Roman Slowinski, Salvatore Greco*

**■ TC-03**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 13*

**Preference Learning 3**

Stream: Preference Learning

Chair: *Antti Airola*

**1 - Preference-Based Learning in Games**

*Johannes Fürnkranz*

**2 - On performing ROC Analysis with Leave-Pair-Out Cross-Validation**

*Tapio Pahikkala, Antti Airola*

**3 - Leave-pair-out cross-validation for learning to rank**

*Antti Airola, Tapio Pahikkala*

**■ TC-04**

*Tuesday, 12:30-14:00 - Building CW, ground floor, Room 6*

**Recent results on optimization and simulation**

Stream: Recent Developments on Optimization and Some Results on Game Theory

Chair: *Takashi Tsubota*

**1 - Computing CIS Partitions for Additive Hedonic Coalition Formation Games**

*Shao-Chin Sung*

**2 - Multi-attribute auctions on interval data**

*Kurt Nielsen*

**3 - Group Activity Selection from More General Preferences**

*Takashi Tsubota, Shao-Chin Sung*

**■ TC-05**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 8*

**Theoretical Considerations in Multiobjective Optimization**

Stream: Multiobjective Optimization

Chair: Kerstin Daechert

**1 - Output-sensitive Complexity of Multiobjective Combinatorial Optimization**

*Fritz Böckler, Matthias Ehrgott, Christopher Morris, Petra Mutzel*

**2 - A Modified Scalarization for Characterizing Properly Efficient Solutions in Multiobjective Optimization**

*Majid Soleimani-damaneh, Kazhal Khaledian*

**3 - An Exact Algorithm to find All Non-dominated Points of Multi-objective Mixed Integer Linear Programs**

*Metin Turkay, Seyyed Amir Babak Rasmi*

**4 - Efficient Computation of the Search Region in Multi-objective Optimization**

*Kerstin Daechert, Kathrin Klamroth, Renaud Lacour, Daniel Vanderpooten*

**■ TC-06**

*Tuesday, 12:30-14:00 - Building CW, ground floor, Room 2*

**Complex preference learning in MCDA 2**

Stream: Multiple Criteria Decision Aiding

Chair: Milosz Kadzinski

**1 - Post factum analysis for robust multiple criteria ranking and sorting**

*Milosz Kadzinski, Krzysztof Ciomek, Paweł Rychły, Roman Slowinski*

**2 - Heuristics for prioritizing pair-wise elicitation questions with additive multi-attribute value models**

*Krzysztof Ciomek, Milosz Kadzinski, Tommi Tervonen*

**3 - Bipolar robustness control methodology in disaggregation MCDA approaches: Application to European e-government evaluation**

*Eleftherios Siskos, John Psarras*

**4 - Disaggregation approach for understanding heterogeneity in consumers' preferences in online markets**

*Mohammad Ghaderi, Nuria Agell, Francisco Ruiz*

**■ TC-07**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 123*

**Spatial Risk Analysis**

Stream: Spatial Risk Analysis

Chair: Nikolaos Argyris

Chair: Valentina Ferretti

Chair: Simon French

Chair: Gilberto Montibeller

**1 - Multi-Criteria Spatial Risk Analysis**

*Gilberto Montibeller, Valentina Ferretti*

**2 - Spatial Risk Analysis in Emergency Management**

*Simon French, Nikolaos Argyris*

**3 - Adversarial risk analysis for urban security**

*David Rios, Jesus Rios, Cesar Gil*

**4 - Presenting Geographical Uncertainty in Radiological Emergencies: findings from three workshops**

*Nikolaos Argyris, Simon French*

**■ TC-08**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 9*

**IBM Research Applications 2**

Stream: IBM Research Applications

Chair: Marco Laumanns

Chair: Susara van den Heever

Chair: Martin Mevissen

Chair: Xavier Nodet

**1 - Temporal Budget Allocation for Real-time Bidding of Display Advertisements**

*Pavankumar Murali*

**2 - SOCP Relaxations for Optimal Power Flow**

*Bissan Ghaddar, Xiaolong Kuang, Joe Naoum-Sawaya, Luis Zuluaga*

**3 - Machine Learning and Optimisation Techniques in Managing Operating Theatres**

*Hamideh Anjomshoa, Olivia Smith, Lianhua Chi*

**■ TC-09**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 12*

**LP and MIP Software**

Stream: Mathematical Programming Software

Chair: Tobias Achterberg

**1 - Recent improvements in the CPLEX LP solver**

*Bo Jensen, Roland Wunderling*

**2 - On the efficiency of preconditioners in BlockIP, an interior point package for block-angular problems**

*Jordi Castro, Stefano Nasini*

**3 - New advances in the SAS/OR Optimization Suite**

*Imre Polik*

■ **TC-10**

*Tuesday, 12:30-14:00 - Building CW, ground floor, Room 1*

**AHP and Beyond 1**

Stream: Analytic Hierarchy Process / Analytic Network Process

Chair: Konrad Kułakowski

- 1 - Computing interval weights for incomplete pairwise comparison matrices of large dimension - a weak consistency based approach**  
*Jana Krejčí, Vera Jandova, Jan Stoklasa, Michele Fedrizzi*
- 2 - On the linguistic level of Saaty's pairwise comparison matrices**  
*Jan Stoklasa, Talásek Tomáš*
- 3 - Inconsistency indices for pairwise comparison matrices: a functional unifying approach**  
*Michele Fedrizzi, Matteo Brunelli*
- 4 - On the conjoint estimation of inconsistency and intransitivity of pairwise comparison matrices**  
*Matteo Brunelli*

■ **TC-11**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 127*

**Discrete and Global Optimization 5**

Stream: Discrete and Global Optimization

Chair: Gerhard-Wilhelm Weber

Chair: *Szymon Wasik*

Chair: *Jacek Gondzio*

- 1 - A Procedure for Listing FJ Points of a Quadratic Reverse Convex Programming Problem**  
*Syuuji Yamada*
- 2 - A MINLP to Parameters Inference in Chemical Reactions Networks**  
*M. Asuncion Jimenez-Cordero, Rafael Blanquero, Emilio Carrizosa, José Luis Ferrín, Jerónimo Rodríguez, Boglárka G.-Tóth, José Francisco Rodríguez*
- 3 - Assembly Line Worker Assignment and Balancing Problem (ALWABP) with Task Splitting and Operator Skills**  
*Fatih Cengil, Gorkem Yilmaz, Erinc Albey*
- 4 - An Assignment Problem Relaxation for Single Machine Job Scheduling with Preemption to Minimize Total Weighted Tardiness**  
*Michael Tso, Boris Goldengorin, John Keane*

■ **TC-12**

*Tuesday, 12:30-14:00 - Building CW, ground floor, Room 029*

**VeRoLog: Periodic VRPs**

Stream: Vehicle Routing and Logistics Optimization

Chair: Jose Ribeiro

**1 - An adaptive large neighbourhood search heuristic for an inventory routing problem for liquefied natural gas distribution**

*Yousef Ghiami, Emrah Demir, Tom Van Woensel, Marielle Christiansen, Gilbert Laporte*

**2 - A Lower Bound Algorithm for the Vehicle Routing Problem with two Types of Visits**

*Arya Sevgen, Ozgur Ozpeynirci, Ahmet Camcı*

**3 - A model and a program for selection of agents and logistics of work teams**

*Jose Ribeiro, Caio Siquitelli, Alexandre Leoneti, André Lucirton Costa*

■ **TC-13**

*Tuesday, 12:30-14:00 - Building CW, ground floor, Room 3*

**VeRoLog: Stochastic VRPs 1**

Stream: Vehicle Routing and Logistics Optimization

Chair: Michel Gendreau

- 1 - Exact solution approaches for the Vehicle Routing Problem with Stochastic Demands and preventive restocking recourse policies**  
*Michel Gendreau, Majid Khoshghalb, Ola Jabali, Walter Rei*
- 2 - Heterogeneous Fleet Stochastic Vehicle Routing Problem with Time Windows**  
*Gamze Tuna, Charkaz Aghayeva, Melis Alpaslan*
- 3 - Stochastic single vehicle routing problem with ordered customers**  
*Epaminondas Kyriakidis, Theodosios Dimitrakos, Constantinos Karamatsoukis*
- 4 - The waste collection vehicle routing problem with time windows and uncertain demands: Model and solution approaches**  
*Thomas Yeung, Quentin Tonneau, Nathalie Bostel, Pierre Dejax*

■ **TC-14**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 125*

**Mixed Integer Nonlinear Programming**

Stream: Mixed-Integer Linear and Nonlinear Programming

Chair: Ozlem Defterli

Chair: Omar El Housni

**1 - Numerical Solutions to Global Mixed Integer Nonlinear Optimization Problems**

*João Lauro Faco, Ricardo Silva, Mauricio Resende*

**2 - A MINLP model for the Hydro-Scheduling Problem. The Case of a Head-dependent Cascaded Reservoir System**

*Javier Diaz, Luis Moreno*

**3 - Piecewise Affine Policies for Two-stage Robust Optimization under Demand Uncertainty**

*Omar El Housni, Aharon Ben-Tal, Vineet Goyal*

■ **TC-15**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 126*

**Optimal Control of Gas Network Dynamics**

Stream: Optimization of Gas Networks

Chair: Falk Hante

**1 - Improving efficiency of optimization in gas networks using the space-mapping approach**

*Mapundi Banda*

**2 - Optimal Switching of a Semilinear Model for Gas Networks**

*Fabian Rueffler, Falk Hante*

**3 - Optimal Boundary Control of Hyperbolic Conservation Laws with Switching Controls**

*Sebastian Pfaff, Stefan Ulbrich*

**4 - Decomposition methods for mixed-integer optimal control**

*Mathias Sirvent, Martin Gugat, Günter Leugering, Alexander Martin, Martin Schmidt, David Wintergerst*

■ **TC-16**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 128*

**Patient and Resource Logistics in Healthcare**

Stream: Healthcare Logistics

Chair: *Siegfried Voessner*

Chair: Nikolaus Furian

**1 - Optimization Methods for Patient Transit Dispatching**

*Nikolaus Furian*

**2 - A vehicle routing planning system: case of study of a pharmaceutical Chilean company.**

*Pablo González-Brevis, Matias Vaccarezza*

**3 - Detailed scheduling of radiotherapy treatments with recurring and optional activities on alternative resources**

*Petra Vogl, Roland Braune, Karl Doerner*

■ **TC-17**

*Tuesday, 12:30-14:00 - Building CW, ground floor, Room 0210*

**Retail Inventory Management 2**

Stream: Demand and Supply Management in Retail and Consumer Goods

Chair: *Zumbul Atan*

Chair: Ruud Teunter

**1 - The Repair Kit Problem with positive lead times and ordering costs**

*Ruud Teunter*

**2 - The influence of quality inspections on the optimal safety stock level**

*Gudrun Kiesmuller, Danja Sonntag*

**3 - An inventory control model for modal split transport: A tailored basesurge approach**

*Chuanwen Dong, Sandra Transchel, Kai Hoberg*

■ **TC-18**

*Tuesday, 12:30-14:00 - Building CW, ground floor, Room 023*

**Shop-Floor Management**

Stream: Production and Operations Management

Chair: Krzysztof Fleszar

**1 - Allocating the optimum number of similar machines to operators**

*Baruch Keren, Yossi Hadad, Lea Friedman*

**2 - Finding all optimal solutions for the job shop scheduling problem**

*Jelke van Hoorn*

**3 - Component Lot-Sizing in an Assemble-to-Order System with Zero Setup Costs and with a Capacity Constraint**

*Mehdi Bijari*

**4 - A new MILP model for the Accessibility Windows Assembly Line Balancing Problem**

*Krzysztof Fleszar*

■ **TC-19**

*Tuesday, 12:30-14:00 - Building CW, ground floor, Room 021*

**Graph Searching 1**

Stream: Graph Searching

Chair: Nancy Clarke

**1 - Cops and Robber with Decoys**

*Nancy Clarke*

**2 - How much can be rescued from a graph on fire?**

*Przemysław Gordinowicz*

**3 - Undirected graph exploration with (log log n) pebbles**

*Yann Disser, Jan Hackfeld, Max Klimm*

- 4 - **Bovine life history intersection graphs and their use in studying disease resiliency**  
*Jessica Enright*

## ■ TC-20

Tuesday, 12:30-14:00 - Building CW, ground floor, Room 022

### How OR found its way into universities 2

Stream: How OR found its way into Universities

Chair: *Graham Rand*

- 1 - **Operations Research plus Management Schools equals Analytics**  
*Cathal Brugha*
- 2 - **History of OR in Iceland's universities**  
*Pall Jensson*
- 3 - **How OR found its way into Danish universities**  
*Jakob Krarup*

## ■ TC-21

Tuesday, 12:30-14:00 - Building CW, ground floor, Room 025

### Sustainable multimodal urban mobility

Stream: Public Transportation

Chair: *Chistos Zaroliagis*

Chair: *Damianos Gavalas*

Chair: *Grammati Pantziou*

- 1 - **Multimodal Tourist Tour Planning**  
*Damianos Gavalas, Vlasios Kasapakis, Charalampos Konstantopoulos, Grammati Pantziou, Nikolaos Vathis, Chistos Zaroliagis*
- 2 - **An Incentivized Relocation Scheme for Balancing Vehicle Sharing Systems**  
*Grammati Pantziou, Alexandros Angelopoulos, Damianos Gavalas, Charalampos Konstantopoulos, Damianos Kyriadis*
- 3 - **How Far You Can Drive: Fast Exact Computation of Isochrones in Road Networks**  
*Valentin Buchhold, Moritz Baum, Julian Dibbelt, Dorothea Wagner*
- 4 - **Efficient Traffic Information Updating through Parallelization**  
*George Michalopoulos, Spyros Kontogiannis, Chistos Zaroliagis*

## ■ TC-22

Tuesday, 12:30-14:00 - Building CW, ground floor, Room 027

### Scheduling Models and New Applications 1

Stream: Combinatorial Optimization

Chair: *Eugene Levner*

Chair: *Frank Werner*

- 1 - **Integrated scheduling of maintenance and transportation operations in military supply chains**  
*Eugene Levner, Frank Werner*

- 2 - **Recent Advances for Parallel Machine Scheduling Problems with a Single Server**  
*Frank Werner, Keramat Hasani, Svetlana Kravchenko*

- 3 - **Scheduling of rescue operations under imperfect inspections**  
*Michael Bendersky, Boris Kriheli*

- 4 - **Multiobjective optimization for the car relocation problem in one-way carsharing system**  
*Laurent Moalic, Rabih Zakaria, Alexandre Caminada, Mohammad Dib*

## ■ TC-23

Tuesday, 12:30-14:00 - Building CW, ground floor, Room 028

### Green Urban Logistics

Stream: Green Logistics

Chair: *Ulrich Breunig*

Chair: *Nabil Absi*

Chair: *Pamela Nolz*

- 1 - **A simple LNS-based heuristic for Two-Echelon Routing Problems**  
*Ulrich Breunig, Verena Schmid, Richard Hartl, Thibaut Vidal*
- 2 - **Recharging management of electric vehicles for parcel delivery and collection under consistency requirements**  
*Stefan Schwarzbach, Pamela Nolz, Ulrike Ritzinger, Bin Hu*
- 3 - **Proactive route guidance to avoid congestion**  
*M. Grazia Speranza, Enrico Angelelli, Idil Arsik, Valentina Morandi, Martin Savelsbergh*

## ■ TC-24

Tuesday, 12:30-14:00 - Building BM, 1st floor, Room 119

### Scheduling and Coloring

Stream: Project Management and Scheduling

Chair: *Marek Kubale*

- 1 - **Scheduling Applications of the Graph Ranking Problem**  
*Dariusz Dereniowski*
- 2 - **No-Wait & No-Idle Open Shop with Bioperational Tasks**  
*Krzysztof Pastuszak, Michał Małafiejski*
- 3 - **Bipartite Hypergraphs Edge-Coloring and Clos Networks**  
*Paweł Obszarski*

- 
- 4 - Scheduling of Unit-Length Jobs with Bipartite Incompatibility Graphs on Four Uniform Machines**  
*Hanna Furmańczyk, Marek Kubale*
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■ **TC-25**

Tuesday, 12:30-14:00 - Building BM, ground floor, Room 19

**Studying the micro-processes of OR interventions**

Stream: Behavioural Operational Research

Chair: *Leroy White*

Chair: *Ashley Carreras*

- 1 - Exploring Model-supported Coordination Processes in PSMIs with Micro-level Video Data**  
*Katharina Burger*
  - 2 - Exploring micro-practices observed during strategy development workshops**  
*Frances O'Brien, Maureen Meadows*
  - 3 - Throwing Out the Baby with the Bathwater: The Undesirable Effects of National Research Assessment Exercises on Research**  
*John Mingers, Leroy White*
  - 4 - Managing the Relationship between Clients and Consultants to Enable Progression in Interventions**  
*Ashley Carreras, L. Alberto Franco*
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■ **TC-26**

Tuesday, 12:30-14:00 - Building BM, 1st floor, Room 109D

**Advances in Credit Risk Modelling 1**

Stream: Business Analytics and Intelligent Optimization

Chair: *Jonathan Crook*

- 1 - Modelling Loss Given Default with measures of risk-taking and financial knowledge**  
*Galina Andreeva, Angela De Moraes, Jonathan Crook*
  - 2 - A mortgage scoring model with spatial contagion**  
*Raffaella Calabrese, Kelley Pace, Meagan McCollum*
  - 3 - Accounting for heterogeneity and macroeconomic variables in the estimation of transition intensities for credit cards**  
*Jonathan Crook, Viani Djeundje, Mindy Leow*
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■ **TC-27**

Tuesday, 12:30-14:00 - Building BM, ground floor, Room 20

**Case Studies in OR**

Stream: Case Studies in OR

Chair: *Joaquim Gromicho*

- 1 - Optimizing Heliostat Positions of Solar Lower Power Plants**  
*Andreas Reinholz*

- 2 - Statistical Data Analyses on Recent Elections in Japan**  
*Tatsuo Oyama*

- 3 - Improving Coordination Between Order Generation and Routing in Vendor Managed Routing**  
*Joaquim Gromicho, Loes Knoben, Jacob Kooijman, Leendert Kok, Marc Uetz*
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■ **TC-29**

Tuesday, 12:30-14:00 - Building BM, ground floor, Room 7

**Soft OR and Problem Structuring Methods in Management Science**

Stream: Soft OR and Problem Structuring Methods

Chair: *Doris Behrens*

Chair: *Jennifer Morgan*

- 1 - The Development of Management Sciences / Operational Research Themes and Concepts: Surveying the Trends in the Last Four Decades**  
*Alberto Paucar-Caceres, Mischel Carmen N. Belderrain, Toni Burrowes-Cromwell*
  - 2 - Soft Operational Research to Redesign the Working Environment in a Brazilian Company**  
*Leila Abuabara, Mischel Carmen N. Belderrain, Alberto Paucar-Caceres*
  - 3 - VSM and the Quest for Resilience**  
*Stephen Harwood, Maurizio Tomasella*
- 

■ **TC-30**

Tuesday, 12:30-14:00 - Building BM, 1st floor, Room 110

**Healthcare Services Research and Policy 1**

Stream: Operational Research for Health and Social Care

Chair: *Burcin Bozkaya*

- 1 - Planning of Midwives**  
*Charlotte Vilhelmsen, Jesper Larsen*
  - 2 - Modelling Outpatient Follow-up Behaviour**  
*Jennifer Morgan*
  - 3 - A Multi-Objective Districting Approach for Designing the General Practitioners' (GP) Scheme**  
*Burcin Bozkaya, Seda Yanik, Jörg Kalcsics, Stefan Nickel*
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■ **TC-31**

Tuesday, 12:30-14:00 - Building BM, 1st floor, Room 111

**Decision-making in Humanitarian Operations**

Stream: Humanitarian Operations

Chair: *Tina Wakolbinger*

**1 - Estimation of deprivation cost functions with stated preference methods**

*Xihui Wang, Luk Van Wassenhove*

**2 - Impact of coordination strategies on disaster management performance**

*Gerald Reiner, Christian Wankmüller*

**3 - Funds allocation in NPOs: The role of administrative cost ratios**

*Tina Wakolbinger, Christian Burkart, Fuminori Toyasaki*

**4 - Airborne Recovery of the Emergency Communication Network in Disaster Response**

*Burak Sever, Recep Berk Ozgur, Sezgin Kaplan*

■ **TC-33**

*Tuesday, 12:30-14:00 - Building BM, 1st floor, Room 113*

**Emerging Applications of Data Mining and Computational Statistics 7**

Stream: Computational Statistics

Chair: Glauco da Silva

**1 - Manufacturing Data-based Adaptive Segmentation for Storage Efficiency**

*Seung Hwan Park, Jun-Geol Baek*

**2 - Multifractals and Forecasting in Stock Markets**

*Natália Diniz, Antônio Carlos Silva Filho, Fabiano Guasti Lima*

**3 - Modelling Customer Lifetime Value in the Ferry Industry**

*Mee Chi So, Christopher Bayliss, Christine Currie, Antonio Martinez Sykora, Julia Bennell*

**4 - Evaluating Attributes Selection Techniques in the Classifiers Construction Process**

*Glauco da Silva, Marta Barros, Helder Gomes Costa, Altina Oliveira, Marcos Santos*

■ **TC-34**

*Tuesday, 12:30-14:00 - Building BM, 1st floor, Room 116*

**Logistics of Technical Systems**

Stream: Supply Chain Scheduling and Logistics

Chair: Ulf Lorenz

**1 - Quantified Integer Programs in Road Networks**

*Michael Hartisch*

**2 - Gearbox Design via Mixed-Integer Programming**

*Thorsten Ederer*

**3 - Primal Solutions and Dual Bounds via Dynamic Programming and Lagrangian Relaxation: An Application Example in the Context of Engineering**

*Lena Charlotte Altherr*

**4 - Heat Distribution and Source Scheduling for Energy Efficient Buildings**

*Philipp Pöttgen, Thorsten Ederer, Ulf Lorenz, Peter Pelz*

■ **TC-35**

*Tuesday, 12:30-14:00 - Building BM, ground floor, Room 17*

**Genes and Genomes**

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Aleksandra Swiercz

Chair: Jacek Blazewicz

**1 - Binarization of Single Cell Gene Expression Data Does Not Lead to Information Loss**

*Tomasz Ignac, Alexander Skupin*

**2 - Stochastic Gene Switching Role in Determining the Pharmacodynamics of Certain Drugs**

*Krzysztof Puszynski*

**3 - A New Approach to NGS Map Reads to the Reference Genome**

*Pawel Wojciechowski, Michal Kierzynka, Wojciech Frohberg, Piotr Zurkowski, Jacek Blazewicz*

**4 - GRASSHOPPER - de novo DNA Assembly with Accurate OLC Strategy Achievable in Reasonable Time Even for Large Genomes**

*Wojciech Frohberg, Michal Kierzynka, Pawel Wojciechowski, Aleksandra Swiercz, Marta Kasprzak, Piotr Zurkowski, Jacek Blazewicz*

■ **TC-36**

*Tuesday, 12:30-14:00 - Building BM, ground floor, Room 18*

**Information and Intelligent Systems 2**

Stream: Information and Intelligent Systems

Chair: Gerhard-Wilhelm Weber

Chair: Vahid Eghbal Akhlaghi

**1 - An Accelerated Hyperbolic Smoothing for Solving the Multisource Fermat Weber Problem**

*Adilson Elias Xavier, Vinicius Layter Xavier*

**2 - Designing a Massive Dataset Framework for the Grammatical Evolution System**

*Miguel Nicolau*

**3 - A Semi-supervised Method for Sentiment Diffusion in Social Networks**

*Enza Messina, Elisabetta Fersini*

**4 - Social Media Mining for Open and Distance Education System**

*Zehra Kamisli Ozturk, Zeliha Ergul, Zeynep İdil Erzurum Cicek*

■ **TC-38**

*Tuesday, 12:30-14:00 - Building BM, 1st floor, Room 109M*

**GUEST-OR: Linking Lean Business and OR**

Stream: Workshops and roundtable

Chair: Guido Perboli

- 1 - **GUEST-OR: Linking Lean Business and OR**  
*Guido Perboli*

## ■ TC-39

Tuesday, 12:30-14:00 - Building WE, 1st floor, Room 107

### Decision Support Systems

Stream: Decision Support Systems

Chair: *Isabelle Linden*

Chair: *Boris Delibasic*

- 1 - **Modeling Design Issues of DSS**  
*Gil Greenstein*
- 2 - **Effects of the internal and external factors on decision consistency**  
*Anett Rácz, Tibor István Rácz*
- 3 - **Educational marketing decision system based on multicriteria analysis: The e-Marketing Online platform**  
*Nikolaos Matsatsinis, Evangelos Grigoroudis*
- 4 - **Detecting ETL Bottleneck Points Using Process Mining**  
*Vasco Santos, Orlando Belo*

## ■ TC-40

Tuesday, 12:30-14:00 - Building WE, 1st floor, Room 108

### Applications of Game Theory in OM

Stream: Game Theory and Operations Management

Chair: *Gokce Esenduran*

- 1 - **Energy Efficiency Contracting in Supply Chains under Asymmetric Bargaining Power**  
*Sam Aflaki*
- 2 - **Assortment Selection When Customers Have Limited Attention**  
*Frank Huettner, Tamer Boyaci, Yalcin Akcay*
- 3 - **Competition in Carbon-Offset Markets**  
*Gokce Esenduran*
- 4 - **Supply chain of virtual products: making marketing decisions under bi-criteria**  
*Tatyana Chernonog, Tal Avinadav, Tal Ben-Zvi*

## ■ TC-41

Tuesday, 12:30-14:00 - Building WE, 2nd floor, Room 209

### ESG and Corporate Responsibility in Asset Valuation

Stream: Financial Mathematics and OR

Chair: *Gordon Dash*

Chair: *Nina Kajiji*

- 1 - **Backtesting and Estimation Error: Value-at-Risk Overviolation Rate**  
*Georges Tsafack*

- 2 - **Optimizing Hierarchical Goal ESG Portfolios with ICA Common Factor Indexes**  
*Gordon Dash, Nina Kajiji*

- 3 - **Estimating the Production of Behavioral Spillover Effects in the Municipal Bond Market**  
*Nina Kajiji, Domenic Vonella*

## ■ TC-42

Tuesday, 12:30-14:00 - Building WE, 1st floor, Room 120

### Decarbonizing electric systems (Part I: System supply and grid)

Stream: Long Term Planning in Energy, Environment and Climate

Chair: *Edi Assoumou*

- 1 - **Robust Optimisation for a Smart Grid**  
*Aurélien Havel, Sophie Demassej*
- 2 - **CHP and electric heater in a highly renewable electricity system**  
*Gerda Schubert, Benjamin Pfluger*
- 3 - **Long term transition and balancing for the French power mix**  
*Edi Assoumou, Jérôme Gutierrez, Nadia Maïzi*

## ■ TC-43

Tuesday, 12:30-14:00 - Building WE, ground floor, Room 18

### DEA and Performance Measurement 1

Stream: DEA and Performance Measurement

Chair: *Emmanuel Thanassoulis*

- 1 - **Data Envelopment Analysis, scale construction and Choquet integral**  
*Salvatore Greco, Salvatore Corrente, Ali Emrouznejad, Alessio Ishizaka*
- 2 - **A Lexicographic Radial Projection in Data Envelopment Analysis**  
*Pekka Korhonen, Akram Dehnohalaji, Nasim Nasrabadi*
- 3 - **Modelling Different Degrees of Centralization in the Context of Incentivising Operation Units: A DEA-based Approach**  
*Mohsen Afsharian, Heinz Ahn, Emmanuel Thanassoulis*
- 4 - **A DEA-based Incentives System for Centrally Managed Multi-Unit Organisations**  
*Emmanuel Thanassoulis, Mohsen Afsharian, Heinz Ahn*

## ■ TC-47

Tuesday, 12:30-14:00 - Building WE, 1st floor, Room 115

### New Results in Robust Optimization

Stream: Robust Optimization

Chair: *Marc Goerigk*

**1 - Approximation of Ellipsoids Using Bounded Uncertainty Sets**

*André Chassein*

**2 - Robust Counterparts of Ambiguous Stochastic Constraints Under Mean and Dispersion Information**

*Krzysztof Postek, Aharon Ben-Tal, Dick den Hertog, Bertrand Melenberg*

**3 - The Robust Recoverable Spanning Tree Problem with Interval Costs**

*Mikita Hradovich, Adam Kasperski, Pawel Zielinski*

**4 - First Ideas on Inverse Robust Optimization Problems**

*Marc Goerigk, André Chassein*

■ **TC-48**

*Tuesday, 12:30-14:00 - Building WE, 1st floor, Room 116*

**Energy Management**

Stream: Energy/Environment and Climate

Chair: Philip Berntsen

**1 - Quantitative Analysis of Market Opportunity Utilization in Electric Power Companies**

*Miki Tsutsui, Kaoru Tone*

**2 - A generic multi-commodity energy market design model**

*Eugeniusz Toczyłowski*

**3 - Double Auction Used for Fair Coordinated Charging of Electric Vehicles**

*Izabela Zoltowska*

**4 - Modeling to reveal the vast range of future Swiss electricity scenarios under deep uncertainty.**

*Philip Berntsen, Evelina Trutnevte*

■ **TC-51**

*Tuesday, 12:30-14:00 - Building PA, Room D*

**Algorithmic Nonsmooth Optimization 1**

Stream: Nonsmooth Optimization

Chair: Andreas Griewank

Chair: *Andrea Walther*

**1 - Optimality Conditions for Nonsmooth Optimization Problem**

*Andrea Walther, Andreas Griewank*

**2 - On the minimization of discontinuous functions by a smoothing method**

*Ernesto G. Birgin, Natasa Krejic, José Mario Martínez*

**3 - Numerical Experiments on Dynamically Choosing Cutting Models and Scalings in Bundle Methods**

*Christoph Helmberg*

**4 - Successive Piecewise Tangent or Secant Linearization - Newton-like Methods for Solving Piecewise Smooth Equation Systems**

*Tom Streubel, Andreas Griewank*

■ **TC-52**

*Tuesday, 12:30-14:00 - Building PA, Room C*

**Vector and Set-Valued Optimization II**

Stream: Vector and Set-Valued Optimization

Chair: Marcin Studniarski

**1 - Vector Critical Points and Efficiency in Nondifferentiable Constrained Vector Optimization Problems**

*Tadeusz Antczak*

**2 - Higher-Order Optimality Conditions in Set-Valued Optimization with Respect to General Preference Mappings**

*Anna Michalak, Marcin Studniarski*

**3 - A New Global Scalarization Method for Multiobjective Optimization with an Arbitrary Ordering Cone**

*Marcin Studniarski, El-Desouky Rahmo*

■ **TC-53**

*Tuesday, 12:30-14:00 - Building PA, Room A*

**Path and Routing Problems**

Stream: Metaheuristics

Chair: Daniel Tuytens

**1 - Advanced Variable Neighborhood Search on Capacitated Vehicle Routing Problem**

*Behzad Sepehrian Bahary Nejad*

**2 - Annealing Metaheuristic Approaches to the 3D Printer Head Problem (3DPHP)**

*Seán McGarraghy, Terry Harrison, Adrian Doyle, Peter Hannon*

**3 - Exact and Heuristic Methods for Time-Dependent TSP with Multiple Time Windows**

*Jarosław Hurkała*

**4 - Exploring GRASP-based Metaheuristics to solve the Traveling Salesman Problem.**

*Daniel Tuytens, Mohand Mezmaç, Gautier Vaillant, Nouredine Melab*

■ **TC-54**

*Tuesday, 12:30-14:00 - Building PA, Room B*

**Nonlinear optimization and applications**

Stream: Convex Optimization

Chair: Ya-xiang Yuan

**1 - A Gradient Reflection Method for Orthogonal Constrained Optimization Problems**

*Xin Liu*

**2 - On a fractional matrix problem**

*Cong Sun*

**3 - A Parallel Line Search Subspace Correction Method for Composite Convex Optimization**

*Ya-xiang Yuan, Qian Dong, Xin Liu, Zaiwen Wen*

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**■ TC-56**

*Tuesday, 12:30-14:00 - Building CW, 1st floor, Room 122*

**Optimization of Execution of Large Scale Simulation Experiments in the Cloud**

Stream: Workshops and roundtable

Chair: *Przemyslaw Szufel*

**1 - Optimization of Execution of Large Scale Simulation Experiments in the Cloud**

*Przemyslaw Szufel, Bogumił Kamiński*

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**■ TC-58**

*Tuesday, 12:30-14:00 - Building CW, Room 024*

**Mentoring Session 2**

Stream: Mentoring Sessions

**1 - Mentoring Session 2**

*Galina Andreeva*

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**Tuesday, 14:30-16:00**

**■ TD-01**

*Tuesday, 14:30-16:00 - Building CW, AULA MAGNA*

**Keynote Pablo Moscato**

Stream: Plenary, Keynote and Tutorial Sessions

Chair: *Ivana Ljubic*

**1 - Information-Based Medicine and Combinatorial Optimization: Opportunities and Challenges**

*Pablo Moscato*

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**■ TD-02**

*Tuesday, 14:30-16:00 - Building CW, 1st floor, Room 7*

**Rough Sets in Decision III**

Stream: Rough Sets in Decision

Chair: *Marcin Szlag*

**1 - A kernel trick approach to rule-based classifiers**

*Yoshifumi Kusunoki*

**2 - Proposal of statistical rule induction method from a decision table**

*Yuichi Kato, Tetsuro Saeki*

**3 - Dynamic programming approach for construction of association rule systems**

*Beata Zielosko, Mikhail Moshkov, Fawaz Alsolami, Talha Amin, Igor Chikalov*

**4 - Ensemble rule decision models for ordinal and non-ordinal classification problems**

*Jerzy Blaszczynski, Roman Slowinski*

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**■ TD-03**

*Tuesday, 14:30-16:00 - Building CW, 1st floor, Room 13*

**Preference Learning 4**

Stream: Preference Learning

Chair: *Marco Cinelli*

**1 - Estimating Preference Parameters from Rankings vs. Evaluations: Systematic Differences**

*Rudolf Vetschera*

**2 - Using aggregation operators to infer semantic preferences**

*Miriam Martinez-Garcia, Aida Valls, Antonio Moreno*

**3 - HPC-ranking big performance tableaux from multiple incommensurable criteria with missing data**

*Raymond Bisdorff*

**4 - Co-Constructive Development of a Sustainability Assessment Model**

Marco Cinelli, Milosz Kadzinski, Krzysztof Ciomek, Stuart Coles, Mallikarjua Nadagouda, Rajender Varma, Kerry Kirwan

**■ TD-04**

Tuesday, 14:30-16:00 - Building CW, ground floor, Room 6

**Sustainable Urban Transport: Transition towards Zero Emissions**

Stream: Environmental Sustainability in Supply Chains

Chair: Hans-Otto Guenther

Chair: Matthias Kannegiesser

**1 - Single vehicle availability control of electric vehicles in station based car sharing systems with spontaneous booking**

Natalia Agata Stepien, Kerstin Schmidt, Thomas Volling, Thomas Spengler

**2 - System Analysis of Wireless Charging Electric Vehicle for Urban Transport**

Jinhyeok Park, Young Jae Jang

**3 - Pathway to Zero Emissions: The Time-to-Sustainability Approach to Optimize the Transition Towards Sustainable Urban Transport Systems**

Matthias Kannegiesser, Hans-Otto Guenther

**■ TD-05**

Tuesday, 14:30-16:00 - Building CW, 1st floor, Room 8

**Multiobjective Optimization Methods**

Stream: Multiobjective Optimization

Chair: Maciej Nowak

**1 - Solution Approaches to Multiobjective Quadratic Assignment Problems**

Merve Uluel, Zehra Kamisli Ozturk

**2 - Optimization Model with Piecewise Linear Nonconvex Objective Function**

Robert Hlavatý, Helena Brozova

**3 - Interactive Approach in Multicriteria Dynamic Decision Processes**

Maciej Nowak, Tadeusz Trzaskalik

**■ TD-06**

Tuesday, 14:30-16:00 - Building CW, ground floor, Room 2

**Support software for the MCDA process**

Stream: Multiple Criteria Decision Aiding

Chair: Patrick Meyer

Chair: Vincent Mousseau

**1 - diviz : designing, processing and sharing Multicriteria Decision Aiding algorithms**

Patrick Meyer, Sebastien Bigaret

**2 - Modeling of the Multicriteria Decision Aiding process: methodology and practice**

Tatiana Mironova, Patrick Meyer, Jacques Simonin

**3 - ChemDecide 2016: A MCDA software for the Specialty Chemical and Pharmaceutical Industries**

Richard Hodgett

**4 - A free software tool for the fuzzy AHP method**

Pavel Holeček, Jana Talasova

**■ TD-07**

Tuesday, 14:30-16:00 - Building CW, 1st floor, Room 123

**Academic-practitioners Roundtable**

Stream: Workshops and roundtable

Chair: Galina Andreeva

**1 - Making an Impact Roundtable: Academics and Practitioners Working Better Together**

Ruth Kaufman, Hans Geog Bock, David Lane, Gerrit Timmer, Michael Trick

**■ TD-08**

Tuesday, 14:30-16:00 - Building CW, 1st floor, Room 9

**Teaching OR/MS 1**

Stream: Teaching OR/MS

Chair: José Fernando Oliveira

**1 - Teaching multi-objective optimization using iMOLPe - an interactive MOLP explorer**

Carlos Henggeler Antunes, Maria João Alves, Joao Clímaco

**2 - Introducing optimization modeling using an energy supply game**

Jeroen Belien

**3 - Teaching Sustainable Supply Chain Concepts in a Master of Science Program**

Stefan Treitl, Patricia Rogetzer, Werner Jammerneegg

**4 - Operational Research applied to the resolution of logistical problems**

Maria Alejandra Castellini

**5 - An Optimization-based Encapsulation Approach for Mathematics Courses in Engineering Graduation Programs**

Joao Miranda

**■ TD-09**

Tuesday, 14:30-16:00 - Building CW, 1st floor, Room 12

**Applications in Portfolio Selection**

Stream: Emerging Applications in Portfolio Selection and Management Science

Chair: Włodzimierz Ogryczak

**1 - Linear Programming Models based on Reward-Risk Ratio with Multiple CVaR Measure for the Enhanced Index Tracking Problem**

*Włodzimierz Ogryczak, Gianfranco Guastaroba, Renata Mansini, M. Grazia Speranza*

**2 - A hybrid approach combining iterated greedy heuristics and quadratic programming to track the 1/N portfolio**

*Oliver Strub, Norbert Trautmann*

**3 - Bank ownership, risk taking, and bank performance: A stochastic metafrontier approach**

*Chi-Chuan Lee*

■ **TD-10**

*Tuesday, 14:30-16:00 - Building CW, ground floor, Room 1*

**AHP and Beyond 2**

Stream: Analytic Hierarchy Process / Analytic Network Process

Chair: Matteo Brunelli

**1 - A Decision Support Tool for Optimal Personnel-Branch Assignment**

*Nurdiñ Şenay, Okan Arslan, Özkan Özcan*

**2 - Random spanning trees to elicit preferences from pairwise comparison judgements for multiple criteria decision aiding**

*Sajid Siraj, Salvatore Greco, Michele Lundy*

**3 - Sales forecasting based on the Heuristic Rating Estimation method**

*Konrad Kułakowski, Jacek Szybowski, Katarzyna Peter-Bombik*

**4 - Deriving Priorities From Inconsistent PCM using the Network Algorithms**

*Marcin Anholcer, Janos Fulop*

■ **TD-12**

*Tuesday, 14:30-16:00 - Building CW, ground floor, Room 029*

**Combinatorial Optimization for Routing and Scheduling**

Stream: Combinatorial Optimization

Chair: Richard Eglese

**1 - An integer linear programming model for flexible assignment of airport gates**

*Jiyin Liu, Shuo Liu, Wen-Hua Chen*

**2 - Relaxation type algorithms for the continuous p-centre problem**

*Said Salhi, Becky Callaghan, Jack Brimberg, Gábor Nagy*

**3 - Heuristic approach for a one-commodity pickup-and-delivery problem with split demands**

*Juan José Salazar González, Hipólito Hernández Pérez, Beatriz Santos Hernández*

**4 - Combinatorial Optimization Models for Green Vehicle Routing**

*Richard Eglese*

■ **TD-13**

*Tuesday, 14:30-16:00 - Building CW, ground floor, Room 3*

**VeRoLog: Stochastic VRPs 2**

Stream: Vehicle Routing and Logistics Optimization

Chair: Melis Alpaslan

**1 - A literature review on the vehicle routing problem for relief logistics in disasters**

*Kiatkulchai Jitt-Aer*

**2 - The Heterogeneous Fleet Split Delivery Stochastic Vehicle Routing Problem**

*Melis Alpaslan, Charkaz Aghayeva, Gamze Tuna*

**3 - Service scheduling to minimise the risk of missing appointments**

*Chenlu Ji*

**4 - The Planning of Walking School Bus Routing and Scheduling**

*Jenn-Rong Lin, Wei-Ming Wu*

■ **TD-14**

*Tuesday, 14:30-16:00 - Building CW, 1st floor, Room 125*

**Maritime transportation and logistics**

Stream: Maritime Transportation

Chair: Marielle Christiansen

**1 - Generalized vehicle routing formulation for mass rescue operations in ocean waters**

*Rui Deus, Luís Gouveia*

**2 - Maritime traffic disruptions in liner ship fleet deployment models: an application to the Suez and Panama canals**

*Manuel Herrera Rodriguez, Per Agrell, Casiano Manrique-de-Lara-Peñate*

**3 - Dealing with uncertainty in a maritime inventory routing problem**

*Filipe Rodrigues, Agostinho Agra, Marielle Christiansen, Lars Magnus Hvattum*

**4 - Considering uncertainty in the berth allocation problem**

*Xavier Schepler, Dominique Feillet, Nabil Absi, Eric Sanlaville*

■ **TD-15**

*Tuesday, 14:30-16:00 - Building CW, 1st floor, Room 126*

**Simulation of Gas Networks**

Stream: Optimization of Gas Networks

Chair: Caren Tischendorf

- 1 - **Perturbation analysis of hyperbolic PDAEs**  
*Christoph Huck*
- 2 - **Structure preserving model order reduction for a semidiscretized gas transport network**  
*Bjoern Liljegren-Sailer*
- 3 - **Analysing and solving gas network applications with compressor stations**  
*Tanja Clees, Kläre Cassirer, Bernhard Klaassen, Igor Nikitin, Lialia Nikitina*
- 4 - **Linear implicit theta methods for flow network DAEs**  
*Caren Tischendorf, Tom Streubel*

## ■ TD-16

Tuesday, 14:30-16:00 - Building CW, 1st floor, Room 128

### Healthcare scheduling and rostering

Stream: Healthcare Logistics

Chair: *Karl Doerner*

Chair: *Petra Vogl*

- 1 - **Adaptive Large Neighborhood Search for the Nurse Rostering Problem**  
*Alexander Kiefer, Richard Hartl*
- 2 - **First Approaches for a Patient Scheduling Problem in Radiotherapy**  
*Johannes Maschler, Martin Riedler, Günther Raidl*
- 3 - **Optimisation and privacy concerns in e-health**  
*Georg Weichhart, Alexander Hämmerle*

## ■ TD-17

Tuesday, 14:30-16:00 - Building CW, ground floor, Room 0210

### Retail Logistics Planning 1

Stream: Demand and Supply Management in Retail and Consumer Goods

Chair: *Rob Broekmeulen*

- 1 - **Improving the efficiency of cross-docking operations in supply chain management: a case study**  
*Maria Pereira, Rui Oliveira*
- 2 - **Coordination of a retail supply chain distribution flow due to a stock market volatility**  
*Tea Vizinger, Janez Žerovnik, Tomaz Kramberger*
- 3 - **The heterogeneous vehicle routing problem with intermediate storage facilities: a case study from the construction industry**  
*David Lai, Wout Dullaert, Sander de Leuw*

## ■ TD-18

Tuesday, 14:30-16:00 - Building CW, ground floor, Room 023

### Facility and Process Design

Stream: Production and Operations Management

Chair: *Hanife Taylan*

- 1 - **Optimal Production Strategy in a Production Firm with Committed Lead Time**  
*Taher Ahmadi, Zambul Atan, Ton de Kok, Ivo Adan*
- 2 - **Modified Holt Winters Forecasting Method**  
*Hanife Taylan, Güçkan Yapar*
- 3 - **Incorporating Collaborative Freight Transport Operations in an Urban Context: First Insights from the Agricultural Products Sector in the Metropolitan Area of Milan**  
*Theodora Trachana, Giuseppe Galli, Vasileios Zeimpekis, Enrico Pastori, Eleni Zampou*

## ■ TD-19

Tuesday, 14:30-16:00 - Building CW, ground floor, Room 021

### Graph Searching 2

Stream: Graph Searching

Chair: *Dariusz Dereniowski*

- 1 - **Distributed decision and verification by mobile agents**  
*Evangelos Bampas, David Ilcinkas*
- 2 - **An Algorithm for Deploying Robotic Agents Inside a Non-convex Polygon**  
*Mahdi Moeini, Daniel Schermer, Oliver Wendt*
- 3 - **Network community structure detection and the Berge-Zhukovskii equilibrium**  
*Rodica Ioana Lung, Noémi Gaskó, Mihai Suci*

## ■ TD-20

Tuesday, 14:30-16:00 - Building CW, ground floor, Room 022

### Cutting and Packing 1

Stream: Cutting and Packing

Chair: *Gerhard Wäscher*

- 1 - **A novel MIP formulation and a BRKGA based approach and for a two-dimensional cutting problem with defects**  
*José Fernando Gonçalves, Gerhard Wäscher*
- 2 - **Two-Dimensional Bin Packing Problem with Partial Conflicts**  
*Salma Mezghani, Boukthir Haddar, Habib Chabchoub*
- 3 - **Raster Penetration Map Applied to Irregular Packing Problems**  
*A. Miguel Gomes*

## ■ TD-21

Tuesday, 14:30-16:00 - Building CW, ground floor, Room 025

### Data analysis and efficiency

Stream: Public Transportation

Chair: *Pravesh Biyani*

- 1 - **Delay data analysis for railway scheduling**  
*Josephine Reuer, Natalia Kliewer*
- 2 - **Measuring production efficiency and service effectiveness of multi-mode metro-transit: A network DEA model**  
*Chao-Chung Kang*
- 3 - **Efficient Update of the Traffic Graph**  
*Pravesh Biyani, Sakshi Taneja*
- 4 - **Modelling traffic jams caused by slow vehicles on secondary roads**  
*Tom Maertens, Willem Melange, Sabine Wittevrongel, Joris Walraevens*

## ■ TD-22

Tuesday, 14:30-16:00 - Building CW, ground floor, Room 027

### Scheduling Models and New Applications 2

Stream: Combinatorial Optimization

Chair: *Eugene Levner*

Chair: *Frank Werner*

- 1 - **Multi-Objective Fuzzy Approach to the Newsvendor Problem**  
*Servet Hasgul, Ahmet Sabri Ogotlu*
- 2 - **Agent-based Integrated Production Scheduling and Employee Timetabling in Robotic Assembly Lines**  
*David Alcaide Lopez de Pablo, Eugene Levner, Vladimir Kats*
- 3 - **Mixed programming problems of optimally allocating and scheduling the openings of transport hubs and access roads to them in a geographic region**  
*Gennady Fedin, Alexander Belenky, Alain Kornhauser*

## ■ TD-23

Tuesday, 14:30-16:00 - Building CW, ground floor, Room 028

### Electric Car Sharing

Stream: Green Logistics

Chair: *Mario Ruthmair*

- 1 - **An Event-based Simulation for Optimizing One-way Car-sharing Systems**  
*Martin Repoux, Burak Boyaci, Nikolas Geroliminis*
- 2 - **Optimizing One-way Electric Carsharing Operations Using Real-time Information**  
*Burak Boyaci, Konstantinos G. Zografos*
- 3 - **Location and Routing Decisions in an Ad-hoc Electric Car Sharing System**  
*Hatice Calik, Bernard Fortz*

## ■ TD-24

Tuesday, 14:30-16:00 - Building BM, 1st floor, Room 119

### Production and Logistics Applications of Optimization Techniques

Stream: Project Management and Scheduling

Chair: *Mikhail Y. Kovalyov*

Chair: *Boris V. Sokolov*

- 1 - **Single Machine Minmax Cost Problem under Precedence Constraints and Uncertainty**  
*Yakov Shafransky, Nadia Brauner, Gerd Finke*

- 2 - **A Special Case of the Asymmetric Travelling Salesman Problem Arising in the Process of Consolidation of Containers in the Rail-Rail and Port Terminals**  
*Erwin Pesch, Maksim Barketau*

- 3 - **Vessel Body Assembly Planning as a Three-Stage Flow-Shop Scheduling Problem**  
*Mikhail Y. Kovalyov, Alexander G. Grivachevsky, Vadim D. Grivachevsky, Boris V. Sokolov, Anatoly I. Sukhomlinov*

## ■ TD-25

Tuesday, 14:30-16:00 - Building BM, ground floor, Room 19

### Behavioural issues in multicriteria decision making

Stream: Behavioural Operational Research

Chair: *Jyrki Wallenius*

Chair: *Pekka Korhonen*

- 1 - **Voting Advice Model**  
*Jyrki Wallenius, Tommi Pajala, Pekka Korhonen, Pekka Malo, Ankur Sinha, Akram Dehnokhalaji*
- 2 - **Judgments of importance revisited: What do they mean?**  
*Tommi Pajala, Pekka Korhonen, Jyrki Wallenius*
- 3 - **Some thoughts of choosing criteria for decision problems**  
*Abolfazl Keshvari, Pekka Korhonen, Jyrki Wallenius*
- 4 - **Logit, CES, and Rational Inattention**  
*Andrei Matveenko*

## ■ TD-26

Tuesday, 14:30-16:00 - Building BM, 1st floor, Room 109D

### Advances in Credit Risk Modelling 2

Stream: Business Analytics and Intelligent Optimization

Chair: *Jonathan Crook*

- 1 - **Prepayment and Default of Consumer Loans in Online Lending**  
*Zhiyong Li*
- 2 - **Modelling the P2P lender's investment decision**  
*Christophe Mues, Lyn Thomas, Mee Chi So, Zhiyong Li*

**3 - Analysis of the impact of behavioural and sector-specific variables in credit risk measurement for the agribusiness**

*Cristian Bravo, Raffaella Calabrese, Daniela Lazo*

**■ TD-27**

*Tuesday, 14:30-16:00 - Building BM, ground floor, Room 20*

**Challenges in Industry**

Stream: Case Studies in OR

Chair: *Olli Bräysy*

Chair: *Tiziano Parriani*

**1 - Flexible and cost-efficient vacation scheduling with a constraint programming model**

*Teemu Kinnunen, Antti Punkka*

**2 - Tactical wood sourcing at a large forestry company: optimization approach and project description**

*Eero Lehtonen, Anssi Käki, Kimmo Mikkonen*

**3 - Waste Flow Optimization with an Application in the Italian Context**

*Tiziano Parriani, Claudio Gambella, Angelo Gordini, Adriano Guarnieri, Matteo Pozzi, Fabio Lombardi, Lorenzo Ravaglia, Fabrizio Salieri, Daniele Vigo*

**■ TD-29**

*Tuesday, 14:30-16:00 - Building BM, ground floor, Room 7*

**Soft OR and Problem Structuring Methods 2**

Stream: Soft OR and Problem Structuring Methods

Chair: *Doris Behrens*

Chair: *Jennifer Morgan*

**1 - Building a Systems Dynamics Model of Unscheduled Care**

*Doris Behrens, Jennifer Morgan, John Frankish*

**2 - Systems' Vulnerability Mapping: A Method for Structuring Knowledge in Tail Dependence Elicitation**

*Christoph Werner*

**3 - Application of the Multimethodological Model "Planejamento Estratégico Situacional -Soft" in a City Hall in Brazil**

*Paloma Santos, Mischel Carmen N. Belderrain, Alberto Paucar-Caceres*

**■ TD-30**

*Tuesday, 14:30-16:00 - Building BM, 1st floor, Room 110*

**Healthcare Services Research and Policy 2**

Stream: Operational Research for Health and Social Care

Chair: *Hassan Baalbaki*

**1 - Human Mortality and Fertility Modeling with a Fuzzy Approach Based on Singular Value Decomposition Technique**

*Duygun Fatih Demirel, Melek Basak*

**2 - Management of Patient response time in an Ophthalmology clinic**

*Narasimhan Ravichandran, Harshal Lowalekar*

**3 - Randomization and Optimization Procedures for Clinical Trials**

*Hassan Baalbaki*

**■ TD-31**

*Tuesday, 14:30-16:00 - Building BM, 1st floor, Room 111*

**Fleet and Asset Management in the Humanitarian Sector**

Stream: Humanitarian Operations

Chair: *Luk Van Wassenhove*

Chair: *Nathan Kunz*

**1 - Vehicle leasing in the humanitarian sector: The impact of planning and execution on satisfaction**

*Luk Van Wassenhove, Nathan Kunz*

**2 - Fleet management for humanitarian development programs under budget uncertainty**

*Milad Keshvari Fard, Felix Papier, Mahyar Eftekhari*

**3 - Fleet size prediction in humanitarian operations**

*Othman Boufaied, Luk Van Wassenhove, Nathan Kunz*

**4 - A bi-objective robust optimisation model for relief distribution under social concerns**

*Douglas Alem, Alistair Clark, Alfredo Moreno*

**■ TD-33**

*Tuesday, 14:30-16:00 - Building BM, 1st floor, Room 113*

**Theoretical Scheduling**

Stream: Scheduling, Sequencing, and Applications

Chair: *Frits Spieksma*

**1 - Online and semi-online scheduling of two job types on a set of multipurpose machines**

*Dvir Shabtay, Shlomo Karhi Karhi*

**2 - Synchronous flow shop problems with additional resources and setup times**

*Stefan Waldherr, Sigrid Knust*

**3 - On the complexity of scheduling locks in sequence**

*Ward Passchyn, Frits Spieksma*

**■ TD-34**

*Tuesday, 14:30-16:00 - Building BM, 1st floor, Room 116*

**Novel Problem Formulations and Solution Approaches for Resource-Constrained Project Scheduling**

Stream: Supply Chain Scheduling and Logistics

Chair: *Esther Mohr*

- 1 - **The Proactive and Reactive Resource-Constrained Project Scheduling Problem**  
*Morteza Davari, Erik Demeulemeester*
- 2 - **Resource-Constrained Project Scheduling with Over-time**  
*Andre Schnabel, Carolin Kellenbrink*
- 3 - **A Project Scheduling Problem with Nonrenewable Resources**  
*Cansu Altintas, Meral Azizoglu*

## ■ TD-35

Tuesday, 14:30-16:00 - Building BM, ground floor, Room 17

### Mathematical Models for Biology

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Giovanni Felici

- 1 - **Mathematical Modeling of Atherogenesis with Particular Emphasis on Aging, Inflammation and Statins Treatment**  
*Piotr Formanowicz, Dorota Formanowicz, Bartłomiej Perek, Jacek Krawczyk*
- 2 - **Optimum Blend of Fractal Methods Applied on Dermoscopic Images for the Diagnosis of Melanoma**  
*Burak Cavdaroglu*
- 3 - **A Combinatorial Model for Protein Descriptors' Structural Alignment**  
*Maciej Antczak, Marta Kasprzak, Piotr Lukasiak, Jacek Blazewicz*
- 4 - **Optimum Solution of the Closest String Problem via Rank Distance**  
*Mara Servilio, Giovanni Felici, Claudio Arbib, Paolo Ventura*

## ■ TD-36

Tuesday, 14:30-16:00 - Building BM, ground floor, Room 18

### Information and Intelligent Systems 3

Stream: Information and Intelligent Systems

Chair: Ipek Deveci Kocakoç

- 1 - **Localization of Prostate in T2W MRI scans**  
*Justinas Jucevičius, Povilas Treigys, Jolita Bernatavičienė, Ruta Briedienė, Ieva Naruseviciute*
- 2 - **Comparison of Naive Bayes and Random Forest Classifiers on Product-Review Data**  
*Tomas Pranckevicius, V. Marcinkevicius*
- 3 - **An Empirical Comparison of Some Artificial Neural Networks Techniques for Forecasting Short-Term Electricity Demand: A case of Turkey**  
*Ipek Deveci Kocakoç, Serkan Aras*

## ■ TD-38

Tuesday, 14:30-16:00 - Building BM, 1st floor, Room 109M

### Scheduling with Resource Constraints I

Stream: Scheduling with Resource Constraints

Chair: Amelie Eilken

- 1 - **Integration of Vehicle Maintenance Scheduling and Single Dead-End Track Parking**  
*Murat Elhüseyni, Ali Tamer Unal*
- 2 - **Optimization Algorithms for a Car Re-Sequencing Problem in Automotive Paint Shops**  
*Sungwon Hong, Jinil Han, Kyungsik Lee*
- 3 - **Solving Methods for Several Max-Plus Linear Equations Based on Mixed-Integer Programming**  
*Hiroyuki Goto, Yoichi Shimakawa*
- 4 - **Scheduling of Automated Yard Cranes at Container Terminals**  
*Amelie Eilken*

## ■ TD-39

Tuesday, 14:30-16:00 - Building WE, 1st floor, Room 107

### Big Data Analytics & Decision Making

Stream: Decision Support Systems

Chair: Isabelle Linden

Chair: Boris Delibasic

- 1 - **Ski injury risk segmentation based on massive skier transportation data**  
*Boris Delibasic, Milija Suknović*
- 2 - **Does text analytics fit text analytics needs?**  
*Isabelle Linden, Anne Wallemacq*
- 3 - **Early Rapid Prognostic System for Sepsis**  
*Shuaiyu Yao, Jian-Bo Yang, Dong-Ling Xu*

## ■ TD-40

Tuesday, 14:30-16:00 - Building WE, 1st floor, Room 108

### Supply Chain Games

Stream: Game Theory and Operations Management

Chair: Yael Perlman

- 1 - **Cooperative line balancing games in parallel M/M/1 lines and loss systems**  
*Shoshana Anily, Moshe Haviv*
- 2 - **Duopoly pricing game with exogenous focal point**  
*Sylwester Bejger*
- 3 - **Sourcing Decisions for a Retailer Under Supply Disruption and Competition**  
*Milan Kumar, Preetam Basu, Balram Avittathur*

**4 - Mergers and acquisitions between risk averse parties**

*Yael Perlman, Tatyana Chernonog, Tal Avinadav*

■ **TD-41**

*Tuesday, 14:30-16:00 - Building WE, 2nd floor, Room 209*

**OR in Forestry**

Stream: OR in Agriculture, Forestry and Fisheries

Chair: Concepcion Maroto

**1 - AHP to prioritise sustainable forestry indicators adapted to ecosystem services under Mediterranean conditions**

*Pablo Valls-Donderis, María C. Vallés, Francisco Galiana*

**2 - Automatic programming system for forestry harvesting teams based in optimization and column generation**

*Tomás Pacheco Riedel, Pablo González-Brevis*

**3 - Wildfire fuel management: optimisation of prescribed burning.**

*Dmytro Matsypura, Oleg Prokopyev*

■ **TD-42**

*Tuesday, 14:30-16:00 - Building WE, 1st floor, Room 120*

**Decarbonizing electric systems (Part II: Demand and behavior)**

Stream: Long Term Planning in Energy, Environment and Climate

Chair: Edi Assoumou

**1 - A Bottom-up and Partial Decomposition Model for Long-term Forecasting**

*Fernando Luiz Cyrino Oliveira, Bruno Bastos, Gheisa Esteves, Reinaldo Souza, Rodrigo Calili, Paula Maçaira, Felipe Silva, Wesley Fagundes, Danilo Carmo, Vanessa Oliveira, Plutarcho Lourenco*

**2 - A semivectorial bilevel programming approach to model the interaction between electricity retailers and consumers**

*Maria João Alves, Carlos Henggeler Antunes, Pedro Carrasqueira*

**3 - Optimal design of tariff structures with discontinuities**

*Kai Helge Becker, Alex Bahnisch*

■ **TD-43**

*Tuesday, 14:30-16:00 - Building WE, ground floor, Room 18*

**DEA and Performance Measurement 2**

Stream: DEA and Performance Measurement

Chair: Chris Tofallis

**1 - Robust Performance evaluation of Belgian R&D firms with missing data**

*Pegah Khoshnevis, Peter Teirlinck, Adel Hatamimarbini*

**2 - Selecting the Most Efficient Set of Projects using DEA**

*Mahnaz Mirbolouki*

**3 - Performance measurement with DEA, Process Mining and Business process simulation**

*Michael Leyer, Silke Hüttel*

**4 - A formula for efficiency based on DEA scores**

*Chris Tofallis*

■ **TD-47**

*Tuesday, 14:30-16:00 - Building WE, 1st floor, Room 115*

**Robust Optimization in Transportation and Energy**

Stream: Robust Optimization

Chair: Chungmok Lee

**1 - Benders-and-Price Approach for Electric Vehicle Charging Location Problem under Uncertainty**

*Chungmok Lee*

**2 - Design of customer center network for warranty services**

*Minjae Park, Chungmok Lee*

**3 - Modeling systems of municipal waste management in municipalities of Lower Silesian Voivodship**

*Dagmara Pisiewicz*

■ **TD-48**

*Tuesday, 14:30-16:00 - Building WE, 1st floor, Room 116*

**OR and Water Management**

Stream: Energy/Environment and Climate

Chair: Gerhard-Wilhelm Weber

Chair: Gamze Nalçacı

**1 - Optimization of Leakage in Water Distribution Networks Using Pressure Reducing Valve**

*Ezgi Köker, A. Burcu Altan-Sakarya*

**2 - Convex Relaxation for Water Distribution Systems**

*Gratien Bonvin, Sophie Demassej*

**3 - Soft Classification of Satellite Data for Snow Mapping by using Multivariate Adaptive Regression Splines**

*Semih Kuter, Zuhail Akyurek, Gerhard-Wilhelm Weber*

- 4 - **Probabilistic forecasts for short-term wind power generation using Singular Spectrum Analysis and Conditional Density Kernel**  
*Reinaldo Souza, Soraida Aguilar, José Pessanha, Fernando Luiz Cyrino Oliveira, Luiz Fernando Lorey*
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## ■ TD-51

Tuesday, 14:30-16:00 - Building PA, Room D

### Algorithmic Nonsmooth Optimization 2

Stream: Nonsmooth Optimization

Chair: Andreas Griewank

Chair: *Andrea Walther*

- 1 - **Calculating Convex and Nonconvex Subdifferentials by the Quasidifferential and Set Operations**  
*Robert Baier*
  - 2 - **Extended supporting hyperplane algorithm for nonsmooth MINLP**  
*Ville-Pekka Eronen, Jan Kronqvist, Napsu Karmita, Tapio Westerlund, Marko M. Mäkelä*
  - 3 - **The MFS method: a subdivision scheme for obtaining all the global optimal solutions of continuous optimization problems**  
*Albert Ferrer, Juan José Mesas, Luis Sainz*
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## ■ TD-52

Tuesday, 14:30-16:00 - Building PA, Room C

### Vector and Set-Valued Optimization III

Stream: Vector and Set-Valued Optimization

Chair: Marius Durea

- 1 - **Minimal Time Function with Respect to a Set of Directions**  
*Marian Dumitru Pantiruc*
  - 2 - **A New Type of Directional Regularity for Multifunctions with Applications to Optimization**  
*Radu Strugariu*
  - 3 - **Optimality Conditions for Sharp and Robust Efficiencies in Vector Optimization with Variable Ordering Structure**  
*Elena-Andreea Florea*
  - 4 - **Penalization Techniques and Optimality Conditions in Vector Optimization**  
*Marius Durea*
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## ■ TD-53

Tuesday, 14:30-16:00 - Building PA, Room A

### Packing, Cutting and Zoning with Metaheuristics

Stream: Metaheuristics

Chair: Andreas Reinholz

- 1 - **An Iterated Local Search Algorithm for the Generalized Quadratic Multiple Knapsack Problem**  
*Mustafa Avci, Seyda Topaloglu*
  - 2 - **The Plant Propagation Algorithm for Discrete Optimization: The Case of the Knapsack Problem**  
*Birsen Irem Selamoglu, Abdellah Salhi*
  - 3 - **Multiobjective Tabu Search for the Zoning Problem**  
*Beatriz Bernabe, Rogelio González Velázquez, José Martín Estrada, Mario Bustillo, Gerardo Martinez*
  - 4 - **Applications of the Biased Random Key Genetic Algorithm to the Field Technician Scheduling Problem**  
*Debora Ronconi, Ricardo Damm*
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## ■ TD-54

Tuesday, 14:30-16:00 - Building PA, Room B

### Numerical methods in optimal control and optimization

Stream: Convex Optimization

Chair: Luis Briceño-Arias

- 1 - **On the convergence of discrete optimal controls**  
*Francisco José Silva Alvarez*
  - 2 - **Construction of Proximal Distances over Symmetric Cones**  
*Julio López, Erik Alex Papa Quiroz*
  - 3 - **Projected Chambolle-Pock splitting for solving monotone inclusions**  
*Luis Briceño-Arias*
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## Tuesday, 17:30-18:30

### ■ TE-57

*Tuesday, 17:30-18:30 - Poznan Internat. Fair, Earth Hall*

### Central Plenary Robert Aumann

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Roman Slowinski

Chair: Daniele Vigo

#### 1 - Why Optimize? An Evolutionary Perspective

*Robert J. Aumann*

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## Wednesday, 8:30-10:00

### ■ WA-01

Wednesday, 8:30-10:00 - Building CW, AULA MAGNA

#### Keynote Marc Pirlot

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Salvatore Greco

- 1 - **Preference Elicitation and Learning in a Multiple Criteria Decision Analysis Perspective: Specificities and Fertilization Through Inter-disciplinary Dialogue**  
*Marc Pirlot*

### ■ WA-02

Wednesday, 8:30-10:00 - Building CW, 1st floor, Room 7

#### Algorithms and Applications

Stream: Algorithms and Computational Optimization

Chair: Ali Hamidoglu

- 1 - **Maximizing total job value on a single machine with job selection**  
*Eun-Seok Kim*
- 2 - **An Evolutionary Framework for Implementing Dual Local Search with Application in Routing**  
*Mona Hamid, Jamal Ouenniche*
- 3 - **A simulation optimization approach for emergency department layout design problem**  
*Taho Yang, Teng Kuan Wang*

### ■ WA-03

Wednesday, 8:30-10:00 - Building CW, 1st floor, Room 13

#### Preference Learning 5

Stream: Preference Learning

Chair: Robert Busa-Fekete

- 1 - **Preferences and Counterfactuals: Learning from logged implicit feedback**  
*Adith Swaminathan, Thorsten Joachims*
- 2 - **Controlling the distance to a Kemeny consensus without computing it**  
*Anna Korba*
- 3 - **Online Rank Elicitation on Weighted Tournaments**  
*Robert Busa-Fekete, Adil Paul, Eyke Hüllermeier*

### ■ WA-04

Wednesday, 8:30-10:00 - Building CW, ground floor, Room 6

#### Green Sourcing and Inventory Management

Stream: Environmental Sustainability in Supply Chains

Chair: Lena Silbermayr

- 1 - **Inventory pooling with environmental constraints using copulas**

*Lena Silbermayr, Werner Jammerneegg, Peter Kischka*

- 2 - **Sustainable dual sourcing of strategic raw materials by integrating recycled materials**

*Patricia Rogetzer, Lena Silbermayr, Werner Jammerneegg*

- 3 - **Reasons for the incorporation of standards: A literature review concerning theories of the firm**

*Felix Tuczek, Tina Wakolbinger*

### ■ WA-05

Wednesday, 8:30-10:00 - Building CW, 1st floor, Room 8

#### Applications of Multiobjective Optimization

Stream: Multiobjective Optimization

Chair: Karthik Sindhya

- 1 - **Selecting Cost-Efficient Safety Actions in High-Risk Installations by Combining Portfolio Decision Analysis with Bayesian Belief Networks**

*Alessandro Mancuso, Michele Compare, Ahti Salo, Enrico Zio*

- 2 - **Multiobjective Environmentally Sustainable Network Design using Pareto Optimization**

*Yi Wang, Wai Yuen Szeto*

- 3 - **Concurrent Real-Time Optimization of Detecting Unexpected Tasks in Embedded Systems Design Process**

*Adam Górski, Maciej Ogorzałek*

- 4 - **Effects of the product value in intermodal freight transportation planning: A tri-objective Pareto front analysis integrating in-transit inventory**

*Andreas Rudi, Patrick Breun, Frank Schultmann*

### ■ WA-06

Wednesday, 8:30-10:00 - Building CW, ground floor, Room 2

#### MCDAs and Environmental Management 2

Stream: Multiple Criteria Decision Aiding

Chair: Antonio Boggia

Chair: Luisa Paolotti

Chair: Lucia Rocchi

- 1 - **Resilience assessment in urban systems: a proposal for the Metropolitan Area of Naples (Italy)**

*Silvia Iodice, Pasquale De Toro*

- 2 - **Integration of Geo-Design and Multi-Criteria Decision Aiding for Cultural Landscape Evaluation**  
*Raffaele Attardi, Maria Cerreta, Maria Luigia Manzi*

## ■ WA-08

Wednesday, 8:30-10:00 - Building CW, 1st floor, Room 9

### Customer Based Services and Knowledge in Organizations

Stream: Customer Based Services and Knowledge in Organizations

Chair: *A. D. Amar*

- 1 - **A Fuzzy Optimization Method to Select Marketing Strategies for New Products Based on Similar Cases**  
*Yao Zhang*
- 2 - **The Economics of Innovation**  
*A. D. Amar, Kamali Archukan*

## ■ WA-09

Wednesday, 8:30-10:00 - Building CW, 1st floor, Room 12

### Applications in Management Science

Stream: Emerging Applications in Portfolio Selection and Management Science

Chair: *Armin Fügenschuh*

- 1 - **Multicriteria Evaluation of Pipe Organ Construction Projects**  
*Tadeusz Trzaskalik, Malgorzata Trzaskalik-Wyrwa, Ireneusz Wyrwa*
- 2 - **A Comparison of Parametric Modeling Approaches for Multi-response Design Parameter Optimization Problems**  
*Gülten Gökayaz, Gülser Köksal*
- 3 - **A Goal Programming Approach to Analyze Sustainable Development Goals of India**  
*Armin Fügenschuh, Irfan Ali, Mohammad Asim Nomani, Aquil Ahmed*

## ■ WA-10

Wednesday, 8:30-10:00 - Building CW, ground floor, Room 1

### AHP/ANP in urban planning and management of energy transition

Stream: Analytic Hierarchy Process / Analytic Network Process

Chair: *Patrizia Lombardi*

Chair: *Valentina Ferretti*

- 1 - **Selection of Social Housing initiatives through Analytical Hierarchy Process and Choquet integral combined within Non Additive Robust Ordinal Regression**  
*Francesca Abastante, Salvatore Corrente, Salvatore Greco, Alessio Ishizaka, Isabella Lami*

- 2 - **Multicriteria Analysis toward sustainable spatial planning. The case of the Smart Susa Valley project**  
*Dafne Regis, Marta Bottero, Angioletta Voghera*

- 3 - **Consensus based siting of wind power (ConSite Wind)**  
*Frank Hanssen, Roel May*

- 4 - **The Analytic Network process for the resilient scenarios in Trentino, Italy**  
*Ombretta Caldarice, Grazia Brunetta, Patrizia Lombardi*

## ■ WA-11

Wednesday, 8:30-10:00 - Building CW, 1st floor, Room 127

### Imprecise probability

Stream: Probabilistic Models

Chair: *Barbara Vantaggi*

- 1 - **Probabilistic merging and revision via efficient L1-distance minimization**  
*Andrea Capotorti*
- 2 - **On the median in imprecise ordinal problems**  
*Sebastien Destercke*
- 3 - **LQ optimal control for partially specified input noise**  
*Alexander Erreygers, Gert de Cooman, Jasper De Bock, Arthur Van Camp*
- 4 - **Credal Likelihood: an Imprecise Probability Approach to Model Unobserved Heterogeneity**  
*Thomas Augustin*

## ■ WA-12

Wednesday, 8:30-10:00 - Building CW, ground floor, Room 029

### New Trends in Combinatorial Optimization

Stream: Combinatorial Optimization

Chair: *Mutsunori Yagiura*

Chair: *Hiroataka Ono*

Chair: *Yuichi Takano*

- 1 - **Minimax Regret 1-Median Problem in Dynamic Path Networks**  
*Yuya Higashikawa, Siu-Wing Cheng, Naoki Katoh, Shun Saburi*
- 2 - **Consistent Neighborhood Search for Bin Packing**  
*Michel Vasquez, Mirsad Buljbasic*
- 3 - **The dependency of optimal road repair schedules on routing strategies**  
*Shungo Koichi*

**4 - Feature Subset Selection for Logistic Regression via Mixed Integer Optimization**

*Yuichi Takano, Toshiki Sato, Ryuhei Miyashiro, Akiko Yoshise*

**■ WA-13**

*Wednesday, 8:30-10:00 - Building CW, ground floor, Room 3*

**VeRoLog: Inventory routing**

Stream: Vehicle Routing and Logistics Optimization

Chair: Olivier Peton

**1 - Inventory routing problem in rolling horizon planning approach**

*Jacek Kaleta*

**2 - Optimization of biomethane collection**

*Olivier Peton*

**3 - The Joint Replenishment Problem with Approximated Routing Costs**

*Annelieke Baller, Said Dabia, Wout Dullaert*

**■ WA-14**

*Wednesday, 8:30-10:00 - Building CW, 1st floor, Room 125*

**Optimization in Liner Shipping**

Stream: Maritime Transportation

Chair: Dario Pacino

**1 - An algorithm for optimizing the container vessel stowage slot planning**

*Ramon Alvarez-Valdes, Dario Pacino, Francisco Parreño*

**2 - Will liner ships make fewer port calls per route?**

*Judith Mulder, Rommert Dekker*

**3 - A Matheuristic for Block Stowage Planning with Crane Intensity**

*Dario Pacino, Roberto Roberti*

**■ WA-15**

*Wednesday, 8:30-10:00 - Building CW, 1st floor, Room 126*

**Multi-objective supply chains**

Stream: Supply Chain Management

Chair: Cagri Sel

**1 - Fuzzy multi-objective supplier selection considering risk and a strategic plan**

*Magdalena Ronge, Dobrila Petrovic*

**2 - Stochastic optimization of the collaborative manufacturing and service chains: the catering industry**

*Cagri Sel, Mehmet Pinarbaşı, Mehmet Soysal, Mustafa Cimen*

**3 - Performance evaluation of a merge supply network with multiple unreliable random suppliers and a distribution centre via matrix analytic methods**

*Michael Vidalis, Alexandros Diamantidis, Michael Geranios, Stelios Koukourmialos*

**■ WA-16**

*Wednesday, 8:30-10:00 - Building CW, 1st floor, Room 128*

**Ambulance Fleet Management 1**

Stream: Healthcare Logistics

Chair: Amir Rastpour

**1 - Locating Emergency Vehicles with an Approximate Queueing Model and a Meta-heuristic Solution Approach**

*M. Altan Akdogan, Z. Pelin Bayindir, Cem Iyigün*

**2 - The Importance of Forecasting in Ambulance Deployment Models: Sensitivity Analysis**

*Hubert Setzler, Hari Rajagopalan, Cem Saydam, Sanjaya Mayadunne*

**3 - From Theoretical Models to Practical Use in the Ambulance Dispatch Center**

*Martin van Buuren*

**■ WA-17**

*Wednesday, 8:30-10:00 - Building CW, ground floor, Room 0210*

**Retail Marketing**

Stream: Demand and Supply Management in Retail and Consumer Goods

Chair: Winfried Steiner

**1 - Market value of fair trade labels**

*Daniel Guhl, Friederike Paetz*

**2 - Maximizing expected category profits of retailers: The roles of nonlinearity and heterogeneity in price effects**

*Winfried Steiner, Anett Weber, Stefan Lang*

**3 - Discovering Profitable Pricing Rules In The Retail Industry**

*Luis Aburto*

**■ WA-18**

*Wednesday, 8:30-10:00 - Building CW, ground floor, Room 023*

**Computing and OR - Emerging Applications 1**

Stream: Computing

Chair: *Yavuz Yilmaz*

Chair: Gerhard-Wilhelm Weber

Chair: *Omer Melih Gul*

**1 - A Surrogate Based Multiple Discipline Feasible Bi-Level Integrated System by Using Neural Network**

*Somayeh Khosravi, Alireza Fakharzadeh*

**2 - Achieving Asymptotically Optimal Throughput in Centralized Mobile Robot Networks without Dispatching Feedback**  
*Omer Melih Gul, Aydan M. Erkmén*

**3 - Optimization Under Privacy Preservation: Possibilities and Trade-offs**  
*Rowan Hoogervorst, Yingqian Zhang, Sicco Verwer, Zekeriya Erkin*

## ■ WA-19

Wednesday, 8:30-10:00 - Building CW, ground floor, Room 021

### Graphs and Networks

Stream: Graph Searching

Chair: Nancy Clarke

- 1 - **Some special case of de Bruijn objects**  
*Rafał Witkowski*
- 2 - **On the cubical dimension of certain binary trees**  
*Kamal Kabyl, Abdelhafid Berrachedi*
- 3 - **Counting Independent Sets on Polygonal Array Graphs**  
*Guillermo De Ita, Raymundo Marcia-Romero, Pedro Bello-López*

## ■ WA-20

Wednesday, 8:30-10:00 - Building CW, ground floor, Room 022

### Cutting and Packing 2

Stream: Cutting and Packing

Chair: David Pisinger

- 1 - **Integrating load-balancing into multi-dimensional packing problems**  
*Alessio Trivella, David Pisinger*
- 2 - **Balance and weight limit constraints for the Container Loading Problem on road transport**  
*António Ramos, Elsa Silva*
- 3 - **Realistic problem instances for Container Loading Problems**  
*Elsa Silva, António Ramos*

## ■ WA-21

Wednesday, 8:30-10:00 - Building CW, ground floor, Room 025

### System design

Stream: Public Transportation

Chair: Leo Kroon

- 1 - **Mixed integer programming approaches for synchronizing night urban bus services**  
*Cristian Cortes, Cristiam Gil, Antonio Gschwender, César Núñez, Pablo A. Rey*

**2 - Multimodal City-Courier Network Topological Design**  
*Tsung-Sheng Chang, Shuo-yen Wang*

**3 - Network design problem for electrical bus**  
*Yousef Maknoon, Shadi Sharif Azadeh, Michel Bierlaire*

**4 - Time-oriented model as a support for solving the Park and Ride problem**  
*Jan Wojciech Owsinski, Krzysztof Sep, B. Prokop*

## ■ WA-22

Wednesday, 8:30-10:00 - Building CW, ground floor, Room 027

### New Developments in Heuristic Search for Combinatorial Optimization Problems

Stream: Combinatorial Optimization

Chair: Manuel Laguna

- 1 - **Statistical analysis of randomization in adaptive large neighborhood search**  
*Lars Magnus Hvattum, Ahmad Hemmati*
- 2 - **A multi-pheromone Ant Colony System algorithm for aid distribution**  
*Gregorio Tirado, José María Ferrer, M. T. Ortuno*
- 3 - **Models and Solution Methods for the Uncapacitated r-Allocation p-Hub Center Problem**  
*Manuel Laguna, Angel Corberan, Rafael Marti, Juanjo Peiró*

## ■ WA-23

Wednesday, 8:30-10:00 - Building CW, ground floor, Room 028

### Electric Vehicle Routing

Stream: Green Logistics

Chair: Mario Ruthmair

- 1 - **Stochastic Macroscopic Energy Consumption Model for Electric Vehicle Routing**  
*Bartłomiej Ohde, Grzegorz Slaski, Michal Maciejewski*
- 2 - **Cyclic Giant Tour Decoding for the Electric Vehicle Routing Problem with Time Windows**  
*Christopher Bacher, Günther Raidl*
- 3 - **Developing an Infrastructure Concept for Electric Vehicle Charging Stations Based on Real-world Data**  
*Alexander Döge, Ferdinand Kiermaier*
- 4 - **Models for Electric Vehicle Routing Problems with Load-dependent Energy Consumption**  
*Mario Ruthmair, Luís Gouveia, Daniel Rebelo dos Santos*

## ■ WA-24

Wednesday, 8:30-10:00 - Building BM, 1st floor, Room 119

### Project Scheduling 2

Stream: Project Management and Scheduling

Chair: Piotr Jedrzejowicz

Chair: Dariusz Barbucha

**1 - SGS-Based Cooperative Approximation Algorithm for Solving RCPSP**

*Ewa Ratajczak-Ropel, Piotr Jedrzejowicz*

**2 - Cooperative Search Approach to the Dynamic Vehicle Routing Problems**

*Dariusz Barbucha*

**3 - Tools to Visualize Patterns and Structure in Team Communication Data**

*Sara McComb, Deanna Kennedy*

■ **WA-25**

*Wednesday, 8:30-10:00 - Building BM, ground floor, Room 19*

**Behavioural issues in environmental decision support**

Stream: Behavioural Operational Research

Chair: Judit Lienert

**1 - How to make ambiguity an enabling factor in group decision: hints from drought risk management**

*Raffaele Giordano, Irene Pluchinotta*

**2 - Objectives hierarchy related biases in environmental MCDA applications - a meta-analysis**

*Mika Martunen, Valerie Belton, Judit Lienert*

**3 - Serious games in environmental MCDA: enhancing preference construction and citizen involvement**

*Alice H. Aubert, Judit Lienert*

**4 - Messy Environmental Decisions - A Summary of BOR Challenges and Research Ideas**

*Judit Lienert, Fridolin Haag*

■ **WA-26**

*Wednesday, 8:30-10:00 - Building BM, 1st floor, Room 109D*

**Analytics on network data**

Stream: Business Analytics and Intelligent Optimization

Chair: Dries Benoit

Chair: Wouter Verbeke

Chair: Kristof Coussement

**1 - Using social network knowledge to enhance customer churn prediction**

*Wai Kit Tsang, Dries Benoit*

**2 - Identifying influencers in a social network: the value of real referral data**

*Iris Roelens, Philippe Baecke, Dries Benoit*

**3 - The World Trade Web: Evolution of International Trade and Globalization from 2000 to 2013**

*Dimitri Robert, Olivier Van Tongerlo, Thomas Crispeels, Wouter Verbeke*

**4 - Bluetooth Tracking of Humans in an Indoor Environment: An Application to Shopping Mall Visits**

*Dieter Oosterlinck, Philippe Baecke, Dries Benoit*

■ **WA-27**

*Wednesday, 8:30-10:00 - Building BM, ground floor, Room 20*

**People and Nature**

Stream: Case Studies in OR

Chair: Bartosz Martynów

**1 - Foodborne Transmission Mechanisms for Norovirus**

*David Lane*

**2 - OR for the Public Good: Experience of a Pro Bono Project**

*Howard Turner*

**3 - Prioritization of Wildlife Projects in Turkey**

*Ozay Ozaydin*

■ **WA-29**

*Wednesday, 8:30-10:00 - Building BM, ground floor, Room 7*

**Personnel Timetabling**

Stream: Timetabling

Chair: Pieter Smet

**1 - Multi-skilled Workforce in Dual Resource Constrained Scheduling with Learning and Forgetting**

*Przemyslaw Korytkowski*

**2 - Cross-Trained Workforce Allocation with Temporal Demand Flexibility in Service Industries**

*Christopher Kirkbride*

**3 - A rich model for home care scheduling**

*Federico Mosquera, Pieter Smet, Greet Vanden Berghe*

**4 - When are personnel rostering problems easy?**

*Pieter Smet, Patrick De Causmaecker, Greet Vanden Berghe*

■ **WA-33**

*Wednesday, 8:30-10:00 - Building BM, 1st floor, Room 113*

**Planning and Scheduling Approaches for Complex Manufacturing and Service Systems 1**

Stream: Scheduling, Sequencing, and Applications

Chair: Lars Moench

**1 - Integrated Disassembly Planning and Scheduling in a Shop Floor Environment**

*Udo Buscher, Franz Ehm*

**2 - A Decomposition Heuristic to Reduce Costs and Increase On-Time Delivery Performance in Flow Line Scheduling for Aircraft Manufacturing**

*Lars Moench, Alexander Biele*

- 3 - Minimizing Makespan with Multiple Orders per Job in Flowshops with Item-Processing Machines**  
*John Fowler, Jeffrey Laub, Lars Moench*

## ■ WA-34

Wednesday, 8:30-10:00 - Building BM, 1st floor, Room 116

### Scheduling Theory and Applications

Stream: Scheduling Theory and Applications

Chair: Federico Della Croce

- 1 - Parallel-machine Scheduling of Precedence Constrained Jobs with Position-dependent Processing Times**  
*Bartłomiej Przybylski*
- 2 - A Branch and Bound Approach for Single Machine Scheduling in the Automotive Supply Chain**  
*Paul Göpfert, Stefan Bock*
- 3 - Preemptive job scheduling with learning effect**  
*Marcin Zurowski*
- 4 - LPT rule for scheduling on two parallel machines revisited**  
*Federico Della Croce*

## ■ WA-35

Wednesday, 8:30-10:00 - Building BM, ground floor, Room 17

### Searching for Patterns

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Paweł Wojciechowski

- 1 - Detection of DNA Replication Origins Based on Somatic Mutation Patterns**  
*Roman Jaksik, Marek Kimmel*
- 2 - Natural vs. Random Protein Sequences: Discovering Combinatorics Properties on Amino Acid Words**  
*Giovanni Felici, Daniele Santoni, Davide Vergni*
- 3 - StructAnalyzer - a Tool for Sequence vs Structure Similarity Analysis**  
*Jakub Wiedemann, Maciej Miłostan*

## ■ WA-36

Wednesday, 8:30-10:00 - Building BM, ground floor, Room 18

### Big Data: Techniques and Applications

Stream: Information and Intelligent Systems

Chair: Xinru Ma

Chair: Gerhard-Wilhelm Weber

- 1 - The Long-term Relationship in IPOs: Evidence from a Big Data**  
*Xinru Ma, Bo Liu*

- 2 - Heterogeneity of Innovative Activity**

*Alexey Myachin*

- 3 - A Systematic Comparison of the Fitness between Sentiment Classification Algorithms and Data Properties**

*Youngseok Choi, Habin Lee*

## ■ WA-38

Wednesday, 8:30-10:00 - Building BM, 1st floor, Room 109M

### Scheduling with Resource Constraints II

Stream: Scheduling with Resource Constraints

Chair: Simon Emde

- 1 - Scheduling of Jobs in the Continuous Casting Stage of Steel Production**  
*Asvin Goel, Oliver Herr*
- 2 - A Hybrid Metaheuristic Approach for Scheduling Steelmaking and Continuous Casting Production**  
*Eduardo Salazar*
- 3 - Scheduling the Replenishment of Picking Areas in Assembly Plants**  
*Simon Emde*

## ■ WA-40

Wednesday, 8:30-10:00 - Building WE, 1st floor, Room 108

### Computational and Analytic Methods in Finance

Stream: Computational Methods in Finance

Chair: Marcus Hildmann

Chair: Dejan Stokic

- 1 - Dynamic Pricing under Competition: A Data-Driven Approach**  
*Rainer Schlosser*
- 2 - Performance measures Adjusted for the Risk Situation (PARS)**  
*Roland Seydel, Christoph Peters*
- 3 - Analytic comparisons of Nash equilibrium, Stackelberg competition and cooperative solutions for games**  
*Fellipe Santos, Adriano Lisboa, Amanda Dusse, Douglas Vieira*

## ■ WA-41

Wednesday, 8:30-10:00 - Building WE, 2nd floor, Room 209

### OR in Agribusiness

Stream: OR in Agriculture, Forestry and Fisheries

Chair: Marcela Gonzalez-Araya

**1 - Supply chain management in food industry by integrating value function and outranking multicriteria methods**

*Concepcion Maroto, Marina Segura, Baldomero Segura*

**2 - An optimization model for planning apple harvest in several orchards with share resources**

*Marcela Gonzalez-Araya, Javier Gomez-Lagos, Masly Rivera-Moraga, Wladimir E. Soto-Silva*

**3 - Assessing eco-efficiency of specialized dairy farms using data envelopment analysis**

*Wenjuan Mu, Argyris Kanellopoulos, Corina van Middelaar, Jacqueline Bloemhof*

**4 - Stochastic contribution to the Fruit Supply Chain planning**

*LluisM Pla, Jordi Mateo, Wladimir Soto-Silva, Marcela Gonzalez-Araya, Francesc Solsona*

■ **WA-42**

*Wednesday, 8:30-10:00 - Building WE, 1st floor, Room 120*

**Energy Efficiency in Buildings**

Stream: Long Term Planning in Energy, Environment and Climate

Chair: Gilles Guerassimoff

**1 - Improving energy efficiency in the residential and tertiary sector by data analysis**

*Gilles Guerassimoff*

**2 - Energy Efficiency improvement by the way of identification with sensors use**

*Ghassene Jebali, Therese Peffer*

**3 - Load curve analysis at households scale for energy efficiency**

*Elise Pupier*

■ **WA-43**

*Wednesday, 8:30-10:00 - Building WE, ground floor, Room 18*

**DEA and Performance Measurement 3**

Stream: DEA and Performance Measurement

Chair: Alec Morton

**1 - Evaluation of efficiency and marginal rate of transformation of international tourist hotels by a meta-frontier DEA model**

*Ming-Miin Yu*

**2 - Comparison of Bayesian and Monte Carlo Estimators for Incidence of Inefficiency in Data Envelopment Analysis**

*Mehmet Güray Ünsal*

**3 - Full Weight Space Efficiency Analysis: A marriage between data envelopment analysis and Probability Theory**

*Yongjun Li, Yuanchang Zhu, Alec Morton*

**4 - Inventory Record Accuracy and Performance of Fashion Stores**

*Amir Shabani, Sander de Leuw, Wout Dullaert*

■ **WA-47**

*Wednesday, 8:30-10:00 - Building WE, 1st floor, Room 115*

**Robust Optimization in Supply Chain Management**

Stream: Robust Optimization

Chair: Byung Do Chung

**1 - Adaptive Inventory Control Under Demand and Lead Time Uncertainty: A Robust Optimization Approach**

*Andreas Thorsen*

**2 - Affinely Adjustable Robust Optimization for Supply Chain Planning under Uncertainty**

*Byung Do Chung*

**3 - Matheuristic algorithms for large-scale stochastic optimization under risk averse constraints**

*María Merino, Unai Aldasoro, Laureano Fernando Escudero, María Araceli Garín, Gloria Perez*

**4 - Comprehensively managing uncertainty in supply chains via robust optimization**

*Giuseppe Stecca, Giovanni Felici, Giacomo Liotta*

■ **WA-48**

*Wednesday, 8:30-10:00 - Building WE, 1st floor, Room 116*

**Sustainable Supply Chains**

Stream: Energy/Environment and Climate

Chair: Argyris Kanellopoulos

**1 - The Environmental Impact of Supply Chain Coordination**

*Dimitris Zissis, Georgios K.D. Saharidis, Emel Aktas*

**2 - Determining the carbon emissions from adding the load to a truck**

*Marcel Turkensteen*

**3 - Designing the biomass-based sugar supply chain using a whole-chain optimization model**

*Argyris Kanellopoulos, Jeroen Zwietering, Jochem Jonkman, G.D.H. (Frits) Claassen, Jacqueline Bloemhof*

**4 - A Stochastic Mixed Integer Program to Optimize Environmental Water Release Decisions**

*Simranjit Kaur, Avril Horne, Alysson M. Costa, Natashia Boland, Rory Nathan, Michael Stewardson, Joanna Szemis*

■ **WA-51**

*Wednesday, 8:30-10:00 - Building PA, Room D*

**Nonsmooth Optimization**

Stream: Nonsmooth Optimization

Chair: Gonca Inceoglu

Chair: Adil Bagirov

**1 - Weak subgradient algorithm in nonconvex optimization**

*Gulcin Dinc Yalcin, Refail Kasimbeyli*

**2 - An Incremental Algorithm for Clusterwise Regression**

*Gurkan Ozturk, Adil Bagirov, Emre Çimen, Arshad Mahmood*

**3 - Chance-Constrained Geometric Programming: Log-normal distribution**

*Vahid Roomi, Rashed Khanjani*

**4 - A Global Optimisation Algorithm to Maximum Margin Clustering**

*Sattar Seifollahi, Adil Bagirov, Ehsan Zare Borzeshi, Massimo Piccardi*

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■ **WA-52**

*Wednesday, 8:30-10:00 - Building PA, Room C*

**Vector and Set-Valued Optimization IV**

Stream: Vector and Set-Valued Optimization

Chair: Elena Molho

**1 - Henig Proper Efficiency for Vector Equilibrium Problems on Linear Spaces**

*Juan Luis Rodenas, César Gutiérrez, Vicente Novo*

**2 - Vector Quasi-Equilibrium Problems for the Sum of Two Multivalued Mappings**

*Livia-Mihaela Miholca, Gabor Kassay, The Vinh Nguyen*

**3 - Stability by Set Convergences: from Vector to Set Optimization**

*Enrico Miglierina*

**4 - Some Sensitivity Results in Convex Multiobjective Optimization**

*Elena Molho*

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■ **WA-53**

*Wednesday, 8:30-10:00 - Building PA, Room A*

**Line Balancing, Lot-Sizing and Planning with Metaheuristics**

Stream: Metaheuristics

Chair: Marc Sevaux

**1 - Assembly line balancing in the footwear industry**

*Parisa Sadeghi, Rui Rebelo, José Soeiro Ferreira*

**2 - Automated Design of Heuristic-Based Solution Approaches for Lot-Sizing Problems**

*Luis Filipe Araujo Pessoa, Bernd Hellgrath, Fernando Buarque de Lima Neto*

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**3 - Minimizing Non-Machining Times in Automatic Tool Changers**

*Fehmi Burcin Ozsoydan, Adil Baykasoğlu*

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■ **WA-54**

*Wednesday, 8:30-10:00 - Building PA, Room B*

**Splitting methods for convex programming**

Stream: Convex Optimization

Chair: Xiaoming Yuan

**1 - An Algorithmic Framework of Generalized Primal-Dual Hybrid Gradient Methods for Saddle Point Problems**

*Xiaoming Yuan*

**2 - Extended ADMM and BCD for Nonseparable Convex Minimization Models with Quadratic Coupling Terms: Convergence Analysis and Insights**

*Caihua Chen*

**3 - Inertial proximal ADMM**

*Junfeng Yang*

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## Wednesday, 10:30-12:00

### ■ WB-01

Wednesday, 10:30-12:00 - Building CW, AULA MAGNA

#### Keynote Stephen J. Wright

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Dolores Romero Morales

##### 1 - Optimization in Data Analysis

*Stephen Wright*

### ■ WB-02

Wednesday, 10:30-12:00 - Building CW, 1st floor, Room 7

#### Algorithms in Continuous Optimization

Stream: Algorithms and Computational Optimization

Chair: Derya Dinler

##### 1 - Nonlinear Chance Constrained Problems: Optimality Conditions, Regularization and Solvers

*Martin Branda, Lukas Adam*

##### 2 - Stopping Criteria for Stochastic Searches in Global Optimization

*Carlos Fernando Ospina Trujillo, Juan Carlos Riaño Rojas*

##### 3 - Multiple-criteria approach to data stream mining

*Janusz Granat*

### ■ WB-03

Wednesday, 10:30-12:00 - Building CW, 1st floor, Room 13

#### Preference Learning 6

Stream: Preference Learning

Chair: Krzysztof Dembczynski

##### 1 - Preference Elicitation for Recommender Systems

*Dietmar Jannach*

##### 2 - Understanding Transparent and Complicated Users in Content Based Recommendation

*Peter Vojtas*

##### 3 - Tuning learning to rank methods - NEKST semantic search engine use case

*Dariusz Czerski, Karol Grzegorzczak*

##### 4 - Predicting diverse rankings in extreme classification

*Krzysztof Dembczynski, Kalina Jasinska*

### ■ WB-04

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 6

#### Resource Efficiency in Supply Chains and Shared Logistics

Stream: Environmental Sustainability in Supply Chains

Chair: Gerald Reiner

Chair: *Emel Aktas*

##### 1 - Collaborative logistics models in urban areas: Current status and evidence from the Fast Moving Consumer Goods sector

*Eleni Zampou, Theodora Trachana, Pavlos Eirinakis, Vasileios Zeimpekis*

##### 2 - A simulation-optimization approach for intermodal transport planning under travel time uncertainty considering multiple objectives

*Martin Hrusovsky, Emrah Demir, Werner Jammerneegg, Tom Van Woensel*

##### 3 - Sustainable Distribution of Online Groceries in the Cities

*Emel Aktas, Michael Bourlakis, Dimitris Zissis*

### ■ WB-06

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 2

#### Urban and territorial planning in MCDA 2

Stream: Multiple Criteria Decision Aiding

Chair: Marta Bottero

Chair: *Isabella Lami*

##### 1 - How to improve decisions about new hospitals' location: the role of Multicriteria Spatial Decision Support System

*Alessandra Oppio*

##### 2 - Generating combinations of alternatives for urban regeneration: a Decision Analysis approach

*Alberto Colorni, Alessandra Oppio, Valentina Ferretti*

##### 3 - A Multi-Criteria Spatial Decision Support System (MC-SDSS) for valorization strategies in Regional Park of Partenio

*Giuliano Poli, Simona Panaro, Maria Cerreta*

##### 4 - Decision-support framework for the selection of the road alignment through mountain terrain

*Drazenko Glavic, Marina Milenković, Milos Mladenovic*

### ■ WB-08

Wednesday, 10:30-12:00 - Building CW, 1st floor, Room 9

#### OR and Real Implementation 1

Stream: OR and Real Implementation

Chair: Belarmino Adenso-Diaz

##### 1 - Efficient Preventative Maintenance Scheduling Policies for Windfarms

*Jesús Maria Pinar-Perez, Diego Ruiz-Hernandez, David Delgado-Gomez*

##### 2 - Cost And Waste Minimization In The Design Of Logistic Networks

*Belarmino Adenso-Diaz, Sebastián Lozano, Antonio Palacio*

##### 3 - Dominance network analysis

*Laura Calzada-Infante*

- 4 - Real-Time Field Service Engineer Scheduling Problem with Emergencies and Collaborations: a Simulation-Optimisation Approach**  
*Daniel Guimaranas, Hanna Grzybowska*

## ■ WB-09

Wednesday, 10:30-12:00 - Building CW, 1st floor, Room 12

### OR Methods in Consumer Behavior Research

Stream: OR Methods in Consumer Behavior Research  
 Chair: [Bırol Yüceoglu](#)

- 1 - **Prediction of Customer Loyalty for Online Retailers**  
*Bırol Yüceoglu, S. Ilker Birbil, Işıl Öztürk*
- 2 - **The validity analysis on major factors of customer satisfaction**  
*Sisi Cui, Peng Zhang, Wei Yu, Hong Seung Ko*
- 3 - **Term-structure analysis of hidden order in the limit order book: evidence from the E-Mini S&P 500**  
*Pongsutti Phuensane, Julian Williams*

## ■ WB-10

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 1

### ANP Applications 3

Stream: Analytic Hierarchy Process / Analytic Network Process  
 Chair: [Petr Fiala](#)

- 1 - **Dynamic multi-criteria project portfolio management**  
*Petr Fiala*
- 2 - **Selection of the Maritime Seaport Software for the Management of the Operations at an International Seaport**  
*Dogan Ozgen, Arzum Ozgen*
- 3 - **A Multi Criteria Evaluation of Online Shopping Websites for Turkish Consumers**  
*Kubra Yikilmaz, Y. Ilker Topcu*

## ■ WB-11

Wednesday, 10:30-12:00 - Building CW, 1st floor, Room 127

### Probabilistic Models

Stream: Probabilistic Models  
 Chair: [Giulianella Coletti](#)

- 1 - **Preference relations agreeing with conditional Choquet expected values with respect to conditional belief or plausibility functions**  
*Davide Petturiti, Giulianella Coletti, Barbara Vantaggi*

- 2 - Imprecise probability assessments and the Square of Opposition**  
*Giuseppe Sanfilippo, Niki Pfeifer*

- 3 - Non-additive integrability for vector-valued functions and atomicity**  
*Domenico Candeloro*

## ■ WB-12

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 029

### Advances in Discrete-Continuous Optimization and Control

Stream: Combinatorial Optimization  
 Chair: [Gerhard-Wilhelm Weber](#)

- 1 - **A Constraint Programming Approach to Flexible Manufacturing Cell Formation with Worker Assignment**  
*Filiz Şenyüzlüler, Seyda Topaloglu, Adil Baykasoğlu*
- 2 - **Data science, machine learning, ternary and other hard decision problems: how copositive optimization can help**  
*Immanuel Bomze, Paula Amaral*
- 3 - **Interior Point Methods and Column Generation**  
*Jacek Gondzio*

## ■ WB-13

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 3

### VeRoLog: Heuristics for VRP variants 1

Stream: Vehicle Routing and Logistics Optimization  
 Chair: [David Di Lorenzo](#)

- 1 - **A New Formulation for the Close Open Mixed VRP**  
*R. Aykut Arapoglu, Abdurrahman Yildiz*
- 2 - **Heuristic algorithm for arrival times with driver hours of service in truck transport**  
*Gideon Mbiydzennyuy*
- 3 - **A novel matheuristic approach based on sets of independent moves in CVRP problems**  
*David Di Lorenzo, Tommaso Bianconcini, Alessandro Lori, Fabio Schoen, Leonardo Taccari*

## ■ WB-14

Wednesday, 10:30-12:00 - Building CW, 1st floor, Room 125

### Optimization in Liner Shipping 2

Stream: Maritime Transportation  
 Chair: [David Pisinger](#)

- 1 - **Liner shipping network design - a new decomposition**  
*David Pisinger*
- 2 - **Disruption Policies in Liner Shipping**  
*Nursen Aydin, Afshin Mansouri, Habin Lee*

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- 3 - Using Fourier-Motzkin Elimination to Produce Efficient Cargomix Models for Revenue Management**  
*Mai Ajspur, Rune Jensen*
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## ■ WB-15

Wednesday, 10:30-12:00 - Building CW, 1st floor, Room 126

### Replenishment and Coordination

Stream: Supply Chain Management

Chair: *Matthias Lech*

- 1 - The replenishment problem in two-echelon distribution network on the example of pharmaceutical industry**  
*Michal Jakubiak*
  - 2 - Agricultural Cooperative Pricing of Premium Product**  
*Nur Cavdaroglu, Burak Kazaz, Scott Webster*
  - 3 - A software framework for establishing Supply Chain Coordination scenarios**  
*Matthias Lech*
  - 4 - Analysis of a Price Only Contract in a Reverse Supply Chain**  
*Majid Biazaran, İsmail Serdar Bakal*
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## ■ WB-16

Wednesday, 10:30-12:00 - Building CW, 1st floor, Room 128

### Ambulance Fleet Management 2

Stream: Healthcare Logistics

Chair: *Amir Rastpour*

- 1 - Using Simulation/Optimisation for Better Ambulance Re-Deployment**  
*Andrew J Mason, Oddo Zhang, Andy Philpott*
  - 2 - Dynamic Programming for Ambulance Fleet Management**  
*Amir Rastpour, Armann Ingolfsson, Greg Zaric, Mehmet Begen*
  - 3 - Ambulance Capacity Model with Dynamic Ambulance Management Aspects**  
*Geert-Jan Kommer, Martin van Buuren*
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## ■ WB-17

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 0210

### Retail Logistics Planning 2

Stream: Demand and Supply Management in Retail and Consumer Goods

Chair: *Dominik Kress*

- 1 - Efficient Handling of Peak Demand in Robotic Mobile Fulfillment Systems**  
*Marius Merschformann, Tim Lamballais Tessensohn, René de Koster, Leena Suhl*

- 2 - Balancing transportation and handling costs in the retail supply chain**  
*Rob Broekmeulen*

- 3 - Approaches for effective sizing of backroom storage facilities in retail food stores**  
*Pedro Amorim, Maria Pires, Ana Camanho*

- 4 - A basic partition problem to assign storage space in group-based storage systems**  
*Dominik Kress, Nils Boysen, Erwin Pesch*
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## ■ WB-18

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 023

### Computing and OR - Emerging Applications 2

Stream: Computing

Chair: *Gerhard-Wilhelm Weber*

Chair: *Arsham Atashi Khoei*

Chair: *Ali Hamidoglu*

- 1 - Problem-oriented computation services integration process simulation.**  
*Zoia Runovska, Vlad Kucher*
  - 2 - Integer Programming and Heuristic Approaches for the Dominating Tree Problem**  
*Selin Akifoglu, Mustafa Kemal Tural*
  - 3 - Low Carbon Weber Problems**  
*Arsham Atashi Khoei, Mustafa Kemal Tural, Haldun Sural*
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## ■ WB-19

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 021

### Stochastic Optimization in Logistics

Stream: Transportation and Logistics

Chair: *Luca Bertazzi*

Chair: *Francesca Maggioni*

Chair: *Rosario Paradiso*

- 1 - A Two-Stage Stochastic Location-Inventory Problem**  
*Mehdi Amiri-Aref, Walid Klibi, Mohamed Zied Babai*
  - 2 - A Solid Waste Management Problem with Stochastic Parameters in a Tactical Level of Planning**  
*Claudio Gambella, Francesca Maggioni, Daniele Vigo*
  - 3 - Investments in Shipping Capacity under Uncertainty: Maximizing the Rate of Return**  
*Giovanni Pantuso, Ove Mørch, Kjetil Fagerholt, Jørgen Glomvik Rakke*
  - 4 - Production and Inventory Routing Problem under uncertainty for agri-food products**  
*Rosario Paradiso, Demetrio Laganà, Roberto Musmanno, Antonio Violi*
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## ■ WB-20

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 022

### Cutting and Packing 3

Stream: Cutting and Packing

Chair: *Horacio Yanasse*

**1 - The cutting stock problem with a reduced number of different patterns**

*Horacio Yanasse, Calvin Costa*

**2 - Cutting stock problem with usable leftovers: implications for sustainability**

*Adriana Cherri, Karen Coelho, Edmea Cássia Baptista, Charbel Jabbour, Edilaine Soler*

**3 - The two dimensional multiperiod cutting stock problem**

*Kelly Cristina Poldi, Silvio de Araujo*

■ **WB-21**

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 025

**Methodology of Societal Complexity and Economy**

Stream: Methodology of Societal Complexity

Chair: *Dorien DeTombe*

Chair: *Cor van Dijkum*

**1 - Variable Structure Optimal Control Problem with Delay and Its Application in Compram Method**

*Akaki Arsenashvili*

**2 - A Heuristic Approach for Welfare-oriented Periodic Food Recovery and Distribution Problems**

*Hanna Grzybowska, Divya Jayakumar Nair, David Rey*

**3 - Group Decision Support by Hierarchical Clustering from the Viewpoint of Ignorance of a Decision Maker**

*Tomoe Entani*

■ **WB-22**

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 027

**Real-World Applications of Operations Research**

Stream: Combinatorial Optimization

Chair: *Fabio Furini*

Chair: *Enrico Malaguti*

**1 - MIP Formulations for a Rich Real-world Lot-sizing Problem with Setup Carryover**

*Xueying Shen, Filippo Focacci, Fabio Furini, Virginie Gabrel, Daniel Godard*

**2 - Relocation in electric car sharing systems**

*Enrico Malaguti, Filippo Masini, Daniele Vigo*

**3 - Real-World Knapsack Problem with Setup**

*Fabio Furini, Michele Monaci, Emiliano Traversi*

■ **WB-23**

Wednesday, 10:30-12:00 - Building CW, ground floor, Room 028

**Green Maritime Logistics**

Stream: Green Logistics

Chair: *Harilaos N. Psaraftis*

**1 - Speed optimization with route improvements**

*Line Reinhardt, David Pisinger*

**2 - The cost of green maritime liner shipping: a bi-objective optimization approach**

*Ali Cheaitou, Pierre Cariou*

**3 - Modal shifts and decision models under the new sulphur limits within Emission Control Areas**

*Thalis Zis, Harilaos N. Psaraftis*

**4 - A multiple ship pickup and delivery problem with speed optimization and alternative objectives**

*Harilaos N. Psaraftis, Min Wen, Dario Pacino, Christos Kontovas*

■ **WB-24**

Wednesday, 10:30-12:00 - Building BM, 1st floor, Room 119

**Energy-Aware Scheduling 1**

Stream: Project Management and Scheduling

Chair: *Jan Weglarz*

Chair: *Joanna Józefowska*

**1 - Integer and Constraint Programming Approaches for the Continuous Energy-Constrained Scheduling Problem**

*Christian Artigues, Margaux Nattaf, Pierre Lopez, Tamas Kis*

**2 - Scheduling Preemptable Jobs on Parallel Machines under Power and Energy Limits**

*Grzegorz Waligora, Rafal Rozycki, Jan Weglarz*

**3 - Heuristic for Energy-Efficient Network Task Scheduling in Virtual Data Centres**

*Marek Mika*

**4 - When to Apply a Power Consuming Machine to Minimize the Schedule Length**

*Rafal Rozycki, Grzegorz Waligora*

■ **WB-25**

Wednesday, 10:30-12:00 - Building BM, ground floor, Room 19

**Behavioural Operations Management**

Stream: Behavioural Operational Research

Chair: *Jelle de Vries*

**1 - An Inventory System with Quasi-hyperbolic Discounting Rate**

*Xiaobo Zhao, Yun Zhou, Jinxing Xie*

**2 - Forecasting Temporal Changes in Biases**

*Sundara Natarajan Panchanatham, Rahul R Marathe*

**3 - Trust-Aware Decision Support Mechanism for Supply Chains**

*Diego de Siqueira Braga, Bernd Hellingrath, Fernando Buarque de Lima Neto*

- 4 - **Individual differences in work rate variability: review and propositions**  
Kenneth Doerr

## ■ WB-26

Wednesday, 10:30-12:00 - Building BM, 1st floor, Room 109D

### Optimization for Business Analytics

Stream: Business Analytics and Intelligent Optimization

Chair: Richard Weber

- 1 - **Multivariate time series made sparse by Mixed Integer Nonlinear Programming**  
Emilio Carrizosa, Alba V Olivares-Nadal, Pepa Ramírez-Cobo
- 2 - **Visualizing data as objects by DC (difference of convex) optimization**  
Vanessa Guerrero, Emilio Carrizosa, Dolores Romero Morales
- 3 - **Dynamic Clustering for Crime Analytics**  
Richard Weber, Georg Peters

## ■ WB-27

Wednesday, 10:30-12:00 - Building BM, ground floor, Room 20

### OR for Development and Developing Countries 1

Stream: OR for Development and Developing Countries

Chair: Laura Lotero

Chair: Elise del Rosario

- 1 - **How can a new university change the productive matrix of a country**  
Andreas Griewank
- 2 - **Challenges and opportunities in the optimization of freight transportation in Antioquia and Coffee Region, Colombia**  
Laura Lotero, Javier Dario Fernández-Ledesma
- 3 - **An Optimal People Allocation Engine for Software Development Projects**  
Girish Palshikar, Rajiv Srivastava, Abhay Sodani, Viswanath Ganesan, A.p. Srinivas, Kishore Padmanabhan
- 4 - **Forecasting the Results of the 2014 Elections in South Africa**  
Hans W. Ittmann

## ■ WB-29

Wednesday, 10:30-12:00 - Building BM, ground floor, Room 7

### Educational Timetabling

Stream: Timetabling

Chair: Greet Vanden Berghe

- 1 - **The Pros and Cons of the Complex Goal Programming Model for University Timetabling**  
Veronika Skocdoplova

- 2 - **A Hybrid Shuffled Complex Evolution Algorithm for the Examination Timetabling Problem**  
Nuno Leite, Fernando Melício, Agostinho Rosa

- 3 - **A Mixed-Integer Linear Programming Model For In-vigilator Scheduling Problems**  
Sedat Belbag, Mustafa Cimen, Mehmet Soysal

## ■ WB-30

Wednesday, 10:30-12:00 - Building BM, 1st floor, Room 110

### Optimal Control Applications

Stream: Optimal Control Applications

Chair: Gernot Tragler

- 1 - **Discussion of stability properties and the approximation of bang-singular-bang optimal controls**  
Ursula Felgenhauer
- 2 - **robust adaptive control of a quadrotor**  
M Navabei, H. Mirzaei
- 3 - **Build agent based computational models for smart grids**  
Nhat Vinh Vo, Josef Haunschmied, Raimund Kovacevic
- 4 - **Dynamic Drug Policy: Optimally Varying the Mix of Treatment, Price-Raising Enforcement, and Primary Prevention Over Time**  
Gernot Tragler, Jonathan Caulkins

## ■ WB-31

Wednesday, 10:30-12:00 - Building BM, 1st floor, Room 111

### Location and Routing in Humanitarian Logistics

Stream: Humanitarian Operations

Chair: Sibel Salman

Chair: Melih Çelik

- 1 - **An optimal strategy for the Online Multi-agent k-Canadian Traveler Problem on edge-disjoint graphs**  
Sibel Salman, Davood Shiri
- 2 - **Multi-vehicle synchronized prize-collecting arc routing for connectivity problem**  
Vahid Akbarighadikolaie, Sibel Salman
- 3 - **Pre-disaster Unmanned Air Vehicle base location and routing for road damage assessment and repair**  
Melih Çelik, Seyyed Kian Farajkhah

- 4 - **Risk-Based facility location by using fault tree analysis in disaster management**  
*Ibrahim Akgün*

## ■ WB-33

Wednesday, 10:30-12:00 - Building BM, 1st floor, Room 113

### Planning and Scheduling Approaches for Complex Manufacturing and Service Systems 2

Stream: Scheduling, Sequencing, and Applications  
 Chair: Georg Weichhart

- 1 - **Risk Control of Job Shop Scheduling with Random Machine Breakdowns**  
*Shudong Sun*
- 2 - **An approach for consistency between global and local scheduling decisions in complex manufacturing**  
*Rezvan Sadeghi, Stéphane Dauzere-Peres, Claude Yugma*
- 3 - **Optimizing Cycle Times in Robot Based Manufacturing Lines**  
*Tobias Hofmann*
- 4 - **Distributed optimisation of schedules in production networks**  
*Alexander Hämmerle, Georg Weichhart*

## ■ WB-34

Wednesday, 10:30-12:00 - Building BM, 1st floor, Room 116

### Realistic Production Scheduling

Stream: Scheduling Theory and Applications  
 Chair: Ruben Ruiz

- 1 - **An Iterated Greedy algorithm for the unrelated parallel machine scheduling problem with additional resources**  
*Eva Vallada, Fulgencia Villa, Luis Fanjul*
- 2 - **Just-in-time criteria in job shop scheduling: MiniZinc formulation**  
*Zoran Rakicevic*
- 3 - **New effective models for the scheduling of unrelated parallel machines with sequence dependent setup times**  
*Ruben Ruiz, Federico Perea, Luis Fanjul*

## ■ WB-35

Wednesday, 10:30-12:00 - Building BM, ground floor, Room 17

### Models and Knowledge Discovery in Biology

Stream: Computational Biology, Bioinformatics and Medicine  
 Chair: Andrzej Polanski

- 1 - **Optimization Based Polyhedral Region Approach for Multi-Class Data Classification Problem**  
*Fatih Rahim, Metin Turkey*

- 2 - **Overlay of Multiple Information Layers for Disease-Oriented Knowledge Exploration and Hypothesis Generation**  
*Piotr Gawron, Marek Ostaszewski, Reinhard Schneider*

- 3 - **ModeLang - a New Approach to Biologists-Friendly Modelling**  
*Tomasz Prejzandanc, Szymon Wasik, Jacek Blazewicz*

- 4 - **Chemotherapy Science Algorithm (CSA) to Solve Knapsack Problem**  
*Mohammad Hassan Salmani, Kourosh Eshghi*

## ■ WB-36

Wednesday, 10:30-12:00 - Building BM, ground floor, Room 18

### Information and Intelligent Systems 4

Stream: Information and Intelligent Systems  
 Chair: Roman Senkerik  
 Chair: Pakize Taylan  
 Chair: Gerhard-Wilhelm Weber

- 1 - **On Temporal Density Extrapolation Using Kernels**  
*Georg Kreml, Marianne Stecklina*
- 2 - **Recent Advances in Modern Swarm and Evolutionary Algorithms**  
*Roman Senkerik*

## ■ WB-38

Wednesday, 10:30-12:00 - Building BM, 1st floor, Room 109M

### Scheduling with Resource Constraints III

Stream: Scheduling with Resource Constraints  
 Chair: Farzad Pargar

- 1 - **Single Machine Scheduling with Sequence-dependent Setup Times, Precedence Constraints and Dynamic Ready Times**  
*Yiyo Kuo, Yen-Hung Yeh*
- 2 - **Algorithmization of the Procedures in the Execution of Construction Processes**  
*Jarostaw Górecki*
- 3 - **Resource utilization techniques for reducing setup times/costs through scheduling**  
*Farzad Pargar, Jaakko Kujala, Osmo Kauppila*

## ■ WB-39

Wednesday, 10:30-12:00 - Building WE, 1st floor, Room 107

### Risk, Uncertainty, and Decision 2

Stream: Risk, Uncertainty, and Decision  
 Chair: Stefania Minardi

1 -  $\alpha$ -Maximin for Ambiguity with Probability Weighting: An Experimental Investigation  
Emmanuel Kemel

2 - Confidence in Beliefs and Decision Making  
Brian Hill

3 - Subjective Contingencies and Limited Bayesian Updating  
Stefania Minardi

## ■ WB-40

Wednesday, 10:30-12:00 - Building WE, 1st floor, Room 108

### Empirical Methods in Finance

Stream: Computational Methods in Finance

Chair: Marcus Hildmann

Chair: Dejan Stokic

1 - Firm value and its size: A model of cooperation and agency costs  
Julián Benavides

2 - A Termination Rule of the Automatic Balancing Mechanism in the Japanese Pension System  
Masanori Ozawa, Tadashi Uratani

3 - An Investigation on Relative Importance of Individual Characteristics of Auditors Performing Financial Audit Using DEMATEL Method  
Mehmet Özbirecikli, V. Alpagut Yavuz

## ■ WB-41

Wednesday, 10:30-12:00 - Building WE, 2nd floor, Room 209

### OR in Clinical Decision Support 1

Stream: OR in Clinical Decision Support

Chair: Szymon Wilk

1 - A Multi-criteria Decision Approach for Drugs for Rare Diseases Assessment  
Sarah Ben Amor, Abdallah Neily

2 - Multi-criteria Optimisation and Decision-making in Radiotherapy  
Sebastiaan Breedveld, Rens van Haveren, Linda Rossi, Steven van de Water, Tine Arts, Abdul Wahab Sharfo, Mischa Hoogeman, Włodzimierz Ogryczak, Ben Heijmen

3 - Using Clinical Data to Predict Surgical Overtime: An Artificial Neural Networks-based Method  
Jun-Der Leu

## ■ WB-42

Wednesday, 10:30-12:00 - Building WE, 1st floor, Room 120

### Program Planning and Robustness

Stream: Operational Research in Financial and Management Accounting

Chair: Markus Puetz

1 - Tax effects on short-term program planning with several production sites  
Markus Puetz, Matthias Amen

2 - Modelling time to default for SMEs operating on the Polish market  
Anna Matuszyk, Agnieszka K. Nowak

3 - Accounting Measures for Robustness  
Matthias Amen

## ■ WB-43

Wednesday, 10:30-12:00 - Building WE, ground floor, Room 18

### DEA and Performance Measurement 4

Stream: DEA and Performance Measurement

Chair: Sanjeet Singh

1 - Malmquist index shows post-crisis development in the agrarian sector in the Czech Republic  
Helena Brozova, Ivana Bohackova

2 - Efficiency of local government units in Northwestern Philippines as to the attainment of the millennium development goals  
Milagros Baldemor

3 - Evaluation of world's largest social welfare scheme: An assessment using non-parametric approach  
Sanjeet Singh

4 - Setting Up Data Staging Areas to ETL Systems  
Orlando Belo, António Ribeiro

## ■ WB-47

Wednesday, 10:30-12:00 - Building WE, 1st floor, Room 115

### Robust Discrete Optimization and Scheduling

Stream: Robust Optimization

Chair: Marco Laumanns

1 - The Min-max Regret Assembly Line Worker Assignment and Balancing Problem  
Mariona Vila Bonilla, Jordi Pereira

2 - Robust Storage Loading Problems with Stacking Constraints  
Thanh Le Xuan, Sigrid Knust

3 - Extensions of Gamma-Robustness to Discrete Structures for Robust Optimization  
Juan Carlos Espinoza Garcia, Laurent Alfordari

## ■ WB-48

Wednesday, 10:30-12:00 - Building WE, 1st floor, Room 116

### Renewable Energy

Stream: Energy/Environment and Climate

Chair: James Corbishley

**1 - On the optimal participation in electricity markets of wind power plants with battery energy storage systems**

*F.-Javier Heredia, Cristina Corchero, Marlyn Dayana Cuadrado Guevara*

**2 - Using Different Clustering Techniques in Artificial Neural Network for Wind Speed Estimation**

*Kadriye Ergün, Melike Sultan Karasu Asnaz*

**3 - Valuing demand responsiveness - using houses as batteries to store electricity**

*James Corbishley*

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■ **WB-53**

*Wednesday, 10:30-12:00 - Building PA, Room A*

**MIP Based Matheuristics**

Stream: Metaheuristics

Chair: M. Grazia Speranza

**1 - Traveling Salesman Problem with Mileage Bands**

*Maciek Nowak, Mike Hewitt*

**2 - A matheuristic for the stochastic service network design of bike sharing systems**

*Bruno Albert Neumann Saavedra, Teodor Crainic, Bernard Gendron, Dirk Christian Mattfeld, Michael Römer*

**3 - A Large Neighborhood Search based Matheuristic for the Tourist Cruises Itinerary Planning**

*Simona Mancini, Giuseppe Stecca*

**4 - A Genetic Algorithm for Flexible Job Shop Production Scheduling in a Cosmetic Industry**

*Genett Jimenez, Fabricio Niebles, Edgar Macias*

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■ **WB-54**

*Wednesday, 10:30-12:00 - Building PA, Room B*

**First order methods for convex optimization problems**

Stream: Convex Optimization

Chair: Martin Takac

**1 - Distributed Optimization with Arbitrary Local Solvers**

*Martin Takac, Chenxin Ma, Jakub Konecny, Martin Jaggi, Virginia Smith, Michael Jordan, Peter Richtarik*

**2 - Complexity of first order inexact Lagrangian and penalty methods for conic convex programming**

*Ion Necoara, Andrei Patrascu, François Glineur*

**3 - Primal-dual coordinate descent: application to joint quantile regression**

*Olivier Fercoq, Pascal Bianchi, Maxime Sangnier*

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■ **WB-56**

*Wednesday, 10:30-12:00 - Building CW, 1st floor, Room 122*

**Doing Theory and Practice: own reflection**

Stream: Workshops and roundtable

Chair: Joaquim Gromicho

**1 - Doing Theory and Practice: own reflection**

*Joaquim Gromicho*

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■ **WB-58**

*Wednesday, 10:30-12:00 - Building CW, Room 024*

**Mentoring Session 3**

Stream: Mentoring Sessions

**1 - Mentoring Session 3**

*Galina Andreeva*

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## Wednesday, 12:30-14:00

### ■ WC-01

Wednesday, 12:30-14:00 - Building CW, AULA MAGNA

#### Keynote Giovanni Rinaldi

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Gerhard-Wilhelm Weber

- 1 - **Maximum Weight Cuts in Graphs and Extensions**  
*Giovanni Rinaldi*

### ■ WC-02

Wednesday, 12:30-14:00 - Building CW, 1st floor, Room 7

#### Algorithms and Computational Design

Stream: Algorithms and Computational Optimization

Chair: Goran Lesaja

- 1 - **Break stage-based Scenario Cluster Lagrangean Decomposition for multistage mixed integer-linear stochastic problems with time stochastic dominance risk averse**  
*Aitziber Unzueta, Laureano Fernando Escudero, María Araceli Garín, María Merino*
- 2 - **Optimal Design of a Large Scale Distribution Network**  
*Jose Antonio Marmolejo, Roman Rodriguez Aguilar, Jonas Velasco*
- 3 - **An integer linear programming approach to find trend-robust run orders of experimental designs**  
*Jose Nunez Ares, Peter Goos*
- 4 - **Discrete Optimization of Sample Sizes in Survey Statistics**  
*Ulf Friedrich, Ralf Münnich, Sven de Vries, Matthias Wagner*

### ■ WC-03

Wednesday, 12:30-14:00 - Building CW, 1st floor, Room 13

#### Operations/Marketing Interface

Stream: Operations/Marketing Interface

Chair: Kathryn E. Stecke

- 1 - **The First Review Effect**  
*Jinhong Xie, Sungsik Park, Woochoel Shin*
- 2 - **An investigation of differentiated prescription decision on profitability**  
*Praowpan Tansitpong, W. Art Chaovalitwongse*
- 3 - **Pricing in competitive multi-channel retail under asymmetric costs: A Game theoretic analysis**  
*Shounak Basak, Balram Avittathur, Preetam Basu, Souymen Sikdar*

- 4 - **Digital Piracy and Quality Disclosure**  
*Zelong Yi*

### ■ WC-06

Wednesday, 12:30-14:00 - Building CW, ground floor, Room 2

#### Non-additive integration in MCDA

Stream: Multiple Criteria Decision Aiding

Chair: Marta Bottero

- 1 - **Choquet integral and extension of ELECTRE III for modelling criteria interactions in environmental decision-making processes**  
*Marta Bottero, Valentina Ferretti, José Rui Figueira, Salvatore Greco, Bernard Roy*
- 2 - **A Choquet integral for pralines comparison based on fat bloom quantification**  
*Valérie Brison, Marc Pirlot*
- 3 - **An analysis of criteria interaction phenomenon in multiple-attribute decision making**  
*Ilker Gölcük, Adil Baykasoğlu*

### ■ WC-08

Wednesday, 12:30-14:00 - Building CW, 1st floor, Room 9

#### OR and Real Implementation 2

Stream: OR and Real Implementation

Chair: Ben Lev

- 1 - **Planning of multi-product one-to-one pipelines by economic lot scheduling models**  
*Thomas Kirschstein*
- 2 - **Seamlessly Creating a Plan, Anywhere, Any Device, Together**  
*Chris Kuip*
- 3 - **Reliable allocation of sensor measurements in a diagnostic system solved as a variant of the generalized assignment problem**  
*Claudio Sterle, Antonio Sforza, Neto André Cabrita*
- 4 - **Clustering of maintenance of maritime assets under different operating modes**  
*Ben Vermeulen, Ayse Sena Eruguz, Tarkan Tan, Geert-Jan van Houtum*

### ■ WC-10

Wednesday, 12:30-14:00 - Building CW, ground floor, Room 1

#### AHP/ANP Integrated Evaluations

Stream: Analytic Hierarchy Process / Analytic Network Process

Chair: Jana Talasova

- 1 - **A Hybrid DEMATEL and ANP SWOT Analysis for A Local Case of University, Industry and Government Interactions**  
*V. Alpogut Yavuz*

**2 - Mathematical model for evaluating artistic work outcomes**

*Jana Talasova, Jan Stoklasa, Pavel Holeček*

**3 - Using ANP - TOPSIS methods for route selection of monorail in Ankara**

*Mustafa Hamurcu, Tamer Eren*

**■ WC-12**

*Wednesday, 12:30-14:00 - Building CW, ground floor, Room 029*

**Demand-based combinatorial optimization**

Stream: Combinatorial Optimization

Chair: Shadi Sharif Azadeh

**1 - A choice-based optimization approach in flexible mobility on demand**

*Shadi Sharif Azadeh, Michel Bierlaire*

**2 - Revenue management capacity control optimization with aggregated non-parametric choice behaviour**

*Thibault Barbier, Miguel Anjos, Fabien Cirinei, Gilles Savard*

**3 - A new mathematical formulation to integrate supply and demand within a choice-based optimization framework**

*Meritxell Pacheco Paneque, Shadi Sharif Azadeh, Michel Bierlaire*

**■ WC-13**

*Wednesday, 12:30-14:00 - Building CW, ground floor, Room 3*

**VeRoLog: Heuristics for VRP variants 2**

Stream: Vehicle Routing and Logistics Optimization

Chair: Jose Brandao

**1 - Team orienteering problem with time windows and partial scores**

*Vincent F. Yu, Hsiu-I Ting*

**2 - Incorporating Linear Optimization into Routing Problems**

*Murat Firat, Nico Dellaert, Wim Nuijten*

**3 - Iterated local search algorithm for the vehicle routing problem with backhauls and soft time windows**

*Jose Brandao*

**4 - Neighborhood search approaches for multi-trip vehicle routing problems**

*Véronique François, Yasemin Arda, Yves Crama, Gilbert Laporte*

**■ WC-14**

*Wednesday, 12:30-14:00 - Building CW, 1st floor, Room 125*

**Port operations**

Stream: Maritime Transportation

Chair: Paola Zuddas

**1 - A New Random-Key Genetic Algorithm for the Berth Allocation and Quay Crane Assignment Problem**

*Juan Correcher, Ramon Alvarez-Valdes, Jose Tamarit*

**2 - The Regional Port Competition with Different Terminal Competition Intensity**

*Mingzhu Yu, Chung-Yee Lee*

**3 - A Novel Integrated Scheduling Model of SP-AS/RS, ALV and Quay Cranes at Automated Container Terminal**

*Seyed Hamidreza Sadeghian*

**4 - An optimization model for the short-term manpower planning problem in transshipment container terminals**

*Paola Zuddas, Massimo Di Francesco, Nuria Diaz-Maroto Llorente, Simone Zanda*

**■ WC-15**

*Wednesday, 12:30-14:00 - Building CW, 1st floor, Room 126*

**Uncertainty and robustness**

Stream: Supply Chain Management

Chair: Christian Ruf

**1 - Optimal Supply Chain Strategy and Postponement Degree with 3D Printing**

*Daniel Ramon Lumbierres, Asier Muguruza, Robert Gimeno Feu, Ping Guo, Mary Hamilton, Kiron Shastry, Sunny Webb, Joaquim Minguella, F.-Javier Heredia*

**2 - Rolling Planning for the Sourcing Problem with Local Content Constraints**

*Christian Ruf*

**3 - Spare Parts Quantity Problem, Interval Loss Matrix and Uncertainty with Unknown Probabilities**

*Helena Gaspars-Wieloch*

**■ WC-16**

*Wednesday, 12:30-14:00 - Building CW, 1st floor, Room 128*

**Emergency Department Modeling and Optimization**

Stream: Healthcare Logistics

Chair: Shahrooz Shahparvari

**1 - Optimization of patient scheduling in emergency department**

*Marwa Harzi, Issam Nouaouri, Jean-François Condotta, Saoussen Krichen*

**2 - Optimization of Emergency Department under uncertainties**

*Issam Nouaouri, Dorsaf Daldoul, Hanan Bouchriha, Hamid Allaoui*

- 3 - Vehicle Routing and Scheduling for Bushfire Emergency Evacuation**  
*Shahrooz Shahparvari, Babak Abbasi, Prem Chhetri*

## ■ WC-18

Wednesday, 12:30-14:00 - Building CW, ground floor, Room 023

### Computing and OR - Emerging Applications 3

Stream: Computing  
 Chair: *Ioannis Tsiligkaridis*  
 Chair: *Omer Melih Gul*

- 1 - Data Mining Methods for Server Decision Processes in Wireless Mobile Computing**  
*Ioannis Tsiligkaridis*
- 2 - Enabling Cloud Service Consolidation with Minimal Interference**  
*Yue Jin, Jennifer Ryan*
- 3 - A risk-based decision making approach for maintenance strategy selection using fuzzy AHP: A case study for the petrochemical industry**  
*Mohammadreza Vasili*

## ■ WC-19

Wednesday, 12:30-14:00 - Building CW, ground floor, Room 021

### Simulation-Optimization in Logistics and Transportation

Stream: Transportation and Logistics  
 Chair: *Guido Perboli*

- 1 - Optimization for Networked Data in Environmental Urban Waste Collection: the ONDE-UWC project**  
*Guido Perboli, Edoardo Fadda, Luca Gobbato, Mariangela Rosano, Roberto Tadei*
- 2 - An integrated multi-agent/system dynamics model for the assessment of City Logistics project**  
*Giovanni Zenezini, Alberto De Marco*
- 3 - Container-Level Simulation of Quay-Side Crane Operations**  
*Karolina Glowacka, Yuen Ying Avis Lam*
- 4 - Multiple criteria evaluation of alternative international/global supply systems**  
*Barbara Galinska, Jacek Zak*

## ■ WC-20

Wednesday, 12:30-14:00 - Building CW, ground floor, Room 022

### Cutting and Packing 4

Stream: Cutting and Packing  
 Chair: *A. Miguel Gomes*

- 1 - Lower bounds for a bin-packing problem with linear usage costs**  
*Roland Braune*

- 2 - On the computational complexity of the Cover Printing Problem**  
*Arnaud Vandaele, Daniel Tuytens*

- 3 - A Mathematical programming approach for 1.5-Dimensional Cutting Stock Problem**  
*SueJeong Kwon, Jinil Han, Kyungsik Lee*

## ■ WC-21

Wednesday, 12:30-14:00 - Building CW, ground floor, Room 025

### Methodology of Societal Complexity and Sustainable Development

Stream: Methodology of Societal Complexity  
 Chair: *Dorien DeTombe*

- 1 - Optimizing Public Governance. Requirements for Handling Complex Societal Problems**  
*Antoinette Muntjewerff*
- 2 - COMPRAM Methodology of Societal Complexity Approaching and Analytical Enhancing the Human & Social Peace and Security Capabilities by 'Science-Religion Dialogue'**  
*Nicolae Bulz, Eliza-Cristina Bulz, Dorien DeTombe*
- 3 - The Refugee Problem in Europe: A Complex Societal Problem**  
*Dorien DeTombe*
- 4 - The Complexity of Human Communication: Order Out of Chaos**  
*Cor van Dijkum, Niek Lam*

## ■ WC-22

Wednesday, 12:30-14:00 - Building CW, ground floor, Room 027

### Advances in multilevel optimization

Stream: Combinatorial Optimization  
 Chair: *Michele Monaci*

- 1 - Intersection Cuts for Mixed-Integer Bilevel Linear Programs**  
*Ivana Ljubic, Matteo Fischetti, Michele Monaci, Markus Sinnl*
- 2 - An improved branch-and-cut algorithm for mixed-integer bilevel linear programs**  
*Michele Monaci, Matteo Fischetti, Ivana Ljubic, Markus Sinnl*
- 3 - Decomposition Approaches for Interdiction Problems**  
*Markus Sinnl, Matteo Fischetti, Ivana Ljubic, Michele Monaci*

**4 - Multilevel Approaches for the Robust Critical Node Problem**

Andrea Baggio, Andrea Lodi, Andrea Tramontani, Margarida Carvalho

■ **WC-23**

Wednesday, 12:30-14:00 - Building CW, ground floor, Room 028

**Green Routing**

Stream: Green Logistics

Chair: Jan Fabian Ehmke

**1 - Online electric taxi dispatching and charging as the assignment problem**

Michal Maciejewski, Joschka Bischoff

**2 - Green Same Day Package Delivery Service with Real-time Demand**

Jane Lin, Wei Zhou, Lili Du

**3 - The impact of mixed fleets on minimizing emissions in urban routing**

Jan Fabian Ehmke, Ann Campbell, Barrett Thomas

**4 - The selective travelling salesman problem with emission allocation rules**

Christian Bierwirth, Thomas Kirschstein

■ **WC-24**

Wednesday, 12:30-14:00 - Building BM, 1st floor, Room 119

**Energy-Aware Scheduling 2**

Stream: Project Management and Scheduling

Chair: Jan Weglarz

Chair: Joanna Józefowska

**1 - Minimizing Energy Costs in Data Centers with Variable Energy Prices and the Use of Renewable Energy Sources**

Ariel Oleksiak

**2 - Improving Energy Efficiency Trough Software Aided Liquid Cooling Management of a Supercomputer**

Radosław Januszewski

**3 - Data Center Workload and Resource Management Simulator Extensions for Energy Efficient Modelling and Experiments**

Krzysztof Kurowski

**4 - A New Algorithm for Discrete-Continuous Scheduling Problem with Makespan Criterion**

Mateusz Gorczyca

■ **WC-25**

Wednesday, 12:30-14:00 - Building BM, ground floor, Room 19

**Mining Biological Data**

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Marta Kasprzak

**1 - Processing, Integration and Mining of Biological Data**

Maciej Miłostan, Jakub Wiedemann

**2 - Tight Lower Bounds and a Hybrid Heuristic for a Problem of Selecting Features**

Amir Salehipour, Pablo Moscato

**3 - Applications of Coalescence Computations for Large Samples**

Andrzej Polanski

**4 - Clustering of Biological Datasets**

Marek Blazewicz, Giovanni Felici, Aleksandra Swiercz, Daniele Santoni, Marcin Jaroszewski, Agnieszka Zmienko, Marta Kasprzak

■ **WC-26**

Wednesday, 12:30-14:00 - Building BM, 1st floor, Room 109D

**Business Analytics**

Stream: Business Analytics and Intelligent Optimization

Chair: Dries Benoit

Chair: Wouter Verbeke

Chair: Kristof Coussement

**1 - Multi label learning for churn prediction in online research communities**

Steven Debaere, Kristof Coussement, Tom De Ruyck

**2 - A Survey on Cost-sensitive Learning for Large Binary Imbalanced Datasets Using Decision Trees and Ensembles**

George Petrides, Wouter Verbeke

**3 - Value-Centric Uplift Modelling for Customer Retention**

Floris Devriendt, Darie Moldovan, Thomas Verbraken, Wouter Verbeke

**4 - Customer lifetime value prediction in the banking industry: A comparison of approaches**

Sam Verboven, Wouter Verbeke

■ **WC-27**

Wednesday, 12:30-14:00 - Building BM, ground floor, Room 20

**OR for Development and Developing Countries 2**

Stream: OR for Development and Developing Countries

Chair: Elise del Rosario

Chair: Gerhard-Wilhelm Weber

Chair: Sadia Samar Ali

**1 - Programming Air Freight Subject to Conditions - Airstrips and Airplanes to Humanitarian Logistics in a Natural Disaster**

Fernando Crespo

- 2 - Feasibility of Product Innovation: Issues and Challenges for Indian Society**  
Sadia Samar Ali, Rajbir Kaur

## ■ WC-29

Wednesday, 12:30-14:00 - Building BM, ground floor, Room 7

### Assessment and Conference Scheduling

Stream: Timetabling

Chair: Frits Spieksma

- 1 - **A matheuristic for short-term planning of assessment centers**  
Tom Rihm, Norbert Trautmann
- 2 - **Conference Room Distribution Planning at EURO 2015 and EURO 2016**  
Thomas Stidsen, Daniele Vigo, David Pisinger
- 3 - **Conference Scheduling - A Personalized Approach**  
Bart Vangerven, Annette Ficker, Dries Goossens, Ward Passchyn, Frits Spieksma, Gerhard J. Woeginger

## ■ WC-30

Wednesday, 12:30-14:00 - Building BM, 1st floor, Room 110

### Control Theory in Economics

Stream: Optimal Control Applications

Chair: Bruno Viscolani

- 1 - **Manufacturing high-tech products subject to rapid obsolescence**  
Bruno Viscolani, Luca Grosset
- 2 - **On a non-standard payoff function in a differential game with random time horizon**  
Anastasiya Malakhova, Ekaterina Gromova, Dmitry Gromov
- 3 - **Non existence of optimal programs in continuous time**  
Silvia Faggian, Giuseppe Freni, Giorgio Fabbri

## ■ WC-31

Wednesday, 12:30-14:00 - Building BM, 1st floor, Room 111

### Coordination in Humanitarian Networks

Stream: Humanitarian Operations

Chair: Ala Pazirandeh

Chair: Diego Vega

- 1 - **Improving forecasting performance in the humanitarian context through time-series clustering**  
Erwin van der Laan, Jan van Dalen, Kim van West
- 2 - **Robust optimization for inventory routing problems in humanitarian relief chains**  
Mohammadmehdi Hakimifar, Najmesadat Nazemi, S. Ali Torabi

- 3 - Making sense of humanitarian operations**  
Diego Vega, Mauricio Rodriguez

## ■ WC-33

Wednesday, 12:30-14:00 - Building BM, 1st floor, Room 113

### Logistics Scheduling

Stream: Scheduling, Sequencing, and Applications

Chair: Nils Boysen

- 1 - **The Berth Allocation Problem as a Maximum Flow Problem**  
Flávia Barbosa, Priscila Rampazzo, Akebo Yamakami
- 2 - **Optimizing automated sorting in warehouses: The minimum order spread sequencing problem**  
Stefan Fedtke, Nils Boysen
- 3 - **Beyond the chaos: How to store items in the warehouse of an online retailer**  
Felix Weidinger, Nils Boysen
- 4 - **Optimal layouts of a parking lot**  
Konrad Stephan, Nils Boysen

## ■ WC-34

Wednesday, 12:30-14:00 - Building BM, 1st floor, Room 116

### Flow Shop Scheduling

Stream: Scheduling Theory and Applications

Chair: Patrick De Causmaecker

- 1 - **Comparison of CDS, Genetic Algorithm and GRASP for Permutation Flow Shop Scheduling Problem**  
Fatma Demircan Keskin, Ural Gokay Cicekli, Murat Kocamaz
- 2 - **Improved Bounded Dynamic Programming Algorithm for Solving the Flow Shop Problem**  
Ansis Ozolins
- 3 - **Assembly Flow Shop Scheduling**  
Uttarayan Bagchi

## ■ WC-35

Wednesday, 12:30-14:00 - Building BM, ground floor, Room 17

### Graphs and Networks in Bioinformatics

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Piotr Formanowicz

- 1 - **Evaluating Disease Control Interventions in Networks of Injection Drug Users: A Model-Based Analysis**  
Margaret L. Brandeau

- 2 - **Bilevel Clustering of Biomedical Knowledge Combining Ontology, Euclidean and Graph-based Distances**  
*Marek Ostaszewski, Emmanuel Kieffer, Piotr Gawron, Gregoire Danoy, Pascal Bouvry*
- 3 - **Algorithms for Construction of Graphs with Predefined Vertex Degrees**  
*Alexander Antkowiak, Piotr Formanowicz*
- 4 - **Methods for Comparison of Petri Nets**  
*Bartłomiej Szawulak, Piotr Formanowicz*

## ■ WC-38

Wednesday, 12:30-14:00 - Building BM, 1st floor, Room 109M

### Scheduling with Resource Constraints IV

Stream: Scheduling with Resource Constraints  
Chair: Jean-Charles Billaut

- 1 - **An Algorithm for a Bi-objective Parallel Machine Problem with Eligibility, Release Dates and Delivery Times of the Jobs**  
*Jacques Teghem, Manuel Mateo, Daniel Tuyttens, Daniel Tuyttens*
- 2 - **The New Method of Sub-Neighborhood Generation in Discrete Optimization Problems**  
*Mieczysław Wodecki, Wojciech Bożejko*
- 3 - **A robust approach for an integrated production scheduling and delivery routing problem**  
*Jean-Charles Billaut, Azeddine Cheref, Christian Artigues*

## ■ WC-40

Wednesday, 12:30-14:00 - Building WE, 1st floor, Room 108

### Power Systems

Stream: Computational Methods in Finance  
Chair: Marcus Hildmann  
Chair: Dejan Stokic

- 1 - **An Investigation on Behavior of Power Generation Companies in the Electricity Market under Different Market-Clearing Mechanisms**  
*Danial EsmailiAliabadi, Murat Kaya, Guvenc Sahin*
- 2 - **Optimal investment planning in a competitive electricity market with distributed generation**  
*Fernando Gontijo Bernardes Junior*
- 3 - **Study of the Bidding Strategy of a Wind Power Producer in Electricity Markets**  
*Eduardo Ramos, Pablo Frias, Camila Fernandes*

## ■ WC-41

Wednesday, 12:30-14:00 - Building WE, 2nd floor, Room 209

### OR in Clinical Decision Support 2

Stream: OR in Clinical Decision Support  
Chair: Szymon Wilk

- 1 - **Performance-based Contracts to Promote Quality Provision in Breast Cancer Treatment**  
*Salar Ghamat, Greg Zaric, Hubert Pun*
- 2 - **Combining Patient Therapy Adherence and Preference Models for Patient-centered Therapy Evaluation**  
*Szymon Wilk, Dymna O'Sullivan, Martin Michalowski, Wojtek Michalowski, Marc Carrier, Hugh O'Sullivan*
- 3 - **Development of Models for Endometrial Cancer Patients Classification by Surgery Type and Surgical Output**  
*Pavel Andreev, Behnam Alimohammadi, Wojtek Michalowski*

## ■ WC-42

Wednesday, 12:30-14:00 - Building WE, 1st floor, Room 120

### Predicting Distress

Stream: Operational Research in Financial and Management Accounting  
Chair: Matthias Amen

- 1 - **Performance Evaluation of Dynamic Methodologies for Predicting Distress under Multiple Criteria**  
*Mohammad Mahdi Mousavi, Jamal Ouenniche*
- 2 - **Predicting US banks bankruptcy: logit versus Canonical Discriminant analysis**  
*Zeineb Affes, Rania Hentati-Kaffel*
- 3 - **Forecast bankruptcy using a blend of clustering and MARS model - Case of US banks**  
*Rania Hentati-Kaffel, Zeineb Affes*

## ■ WC-43

Wednesday, 12:30-14:00 - Building WE, ground floor, Room 18

### DEA and Performance Measurement 5

Stream: DEA and Performance Measurement  
Chair: Katarzyna Bijak

- 1 - **The extensive network DEA model for economic efficiency assessment of port cities**  
*Wendi Ouyang*
- 2 - **Financial Inclusion in Colombia 2014 Study on Efficiency**  
*Gloria Rodriguez Lozano*
- 3 - **The quantitative analysis of the Research Excellence Framework effectiveness in evaluating the British universities' third mission**  
*Katarzyna Bijak, Marta Degl'Innocenti*

## ■ WC-47

Wednesday, 12:30-14:00 - Building WE, 1st floor, Room 115

### Endogenous and Distributional Uncertainty

Stream: Robust Optimization  
Chair: Marco Laumanns

**1 - Robust Multi-Product Pricing Optimization with Experiments**

*Cong Cheng*

**2 - Integration of Robust Optimization and Monte Carlo Simulation for Maximum Capability Evaluation of Gas Transmission Network under Disruptions**

*Trung Hieu Tran, Simon French, Rhys Ashman, Edward Kent, Steven Hopkins*

**3 - Scenario Aggregation using Binary Decision Diagrams for Stochastic Programs with Endogenous Uncertainty**

*Utz-Uwe Haus, Marco Laumanns, Carla Michini*

**4 - Inventory Decisions with Dependent Demand Using Simulation**

*Sang-Won Kim*

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■ **WC-48**

*Wednesday, 12:30-14:00 - Building WE, 1st floor, Room 116*

**Environmental Management**

Stream: Energy/Environment and Climate

Chair: Maurizio Tomasella

**1 - The organic fraction of untreated waste streams and his environmental potential**

*Florian Gehring, Eva Knüpper, Christian Peter Brandstetter, Stefan Albrecht*

**2 - A Study on the Structural Relation of Green Purchase Behavior**

*Jusik Park, Nguyen Huyen*

**3 - Product Greening under Government Regulations**

*Debabrata Ghosh*

**4 - The ReCCCEL toolbox: a response to carbon reduction challenges in the UK construction industry**

*Maurizio Tomasella, Roberto Rossi, Belen Martin-Barragan*

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■ **WC-54**

*Wednesday, 12:30-14:00 - Building PA, Room B*

**Efficient algorithms for mathematical imaging applications**

Stream: Convex Optimization

Chair: Kristian Bredies

**1 - An inexact variable metric line-search algorithm for convex and non-convex optimization**

*Ignace Loris*

**2 - Convergence and stability of Inertial Forward-Backward**

*Charles Dossal*

**3 - A globalized semismooth Newton method for nonsmooth problems**

*Andre Milzarek, Michael Ulbrich*

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■ **WC-56**

*Wednesday, 12:30-14:00 - Building CW, 1st floor, Room 122*

**O.R. for the Public Good: A Workshop on Volunteering and O.R.**

Stream: Workshops and roundtable

Chair: Ruth Kaufman

Chair: *Howard Turner*

**1 - O.R. for the Public Good: A Workshop on Volunteering and O.R.**

*Ruth Kaufman, Howard Turner*

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## Wednesday, 14:30-15:30

### ■ WD-01

Wednesday, 14:30-15:30 - Building CW, AULA MAGNA

#### Plenary Rolf Möhring

Stream: Plenary, Keynote and Tutorial Sessions

Chair: Jan Weglarz

- 1 - Optimizing the Kiel Canal - Integrating Dynamic Network Flows and Scheduling**  
*Rolf Möhring*
- 

## Wednesday, 16:00-17:45

### ■ WE-01

Wednesday, 16:00-17:45 - Building CW, AULA MAGNA

#### Closing Session

Stream: Opening and Closing sessions

Chair: Daniele Vigo

- 1 - Closing Session**  
*Daniele Vigo, Joanna Józefowska*
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