Monday

■ MA-40

1 - Multiple-Stage Parallel-Machine Capacitated Lot-Sizing and Scheduling with Sequence-Dependent Setup: A Case Study in the Wheel Industry
Lalida Deeratanasrikul, Shinji Mizuno

2 - Optimization Model for Scheduling Steelmaking and Continuous Casting Production
Eduardo Salazar

3 - Lot-Sizing in an Export-Oriented Winery: Models and Heuristics under the Principle of Postponement
Sergio Maturana, Mauricio Varas, Jorge Vera, Ignacio Vargas

Paper added to session
4 - A Reactive Scheduling Framework via Off-line Optimization
Georgios Kopanos, Department of Chemical Engineering, Centre for Process Systems Engineering, Imperial College London, Roderic Hill Building, South Kensington Campus, SW7 2AZ, London, London, United Kingdom, g.kopanos@imperial.ac.uk, *Efstratios Pistikopoulos*

In this work, we present a new approach for the reactive scheduling of production systems with uncertain parameters of bounded form. Our method follows a state-space representation for the scheduling problem, and relies on the use of a rolling horizon framework and Parametric Optimization (PO) techniques. We show how we can effectively formulate PO problems that are solved just once and off-line. The results of the PO are used in a rolling horizon basis without the need for on-line optimization. Our approach is applied in the scheduling problem of a network of combined heat and power units.

■ MB-14

1 - The Parallel Machine Scheduling Problem with Job Priorities and Sequence-Dependent Setup Times
Chun-Mei Lai, Yu Chao

2 - An Iterated Greedy Algorithm for the Unrelated Parallel Machine Scheduling Problem with Setup Times
Eva Vallada, Diana Gonzalez, Ruben Ruiz

3 - The Unrelated Parallel Machine Scheduling problem with additional Resources
Federico Perea, Ruben Ruiz

Paper added to session
4 - New (facet-defining) valid inequalities for a time-indexed formulation
Lotte Berghman, Toulouse Business School, France, l.berghman@tbs-ecuation.fr, *Frits Spieksma, T'kindt Vincent*

We consider a time-indexed formulation for the unrelated parallel machine scheduling problem. We show that all polyhedral knowledge known from the single machine problem (in particular, valid inequalities) is applicable to this formulation. We present new valid inequalities and prove that some of them are facet-defining. We also present a preprocessing technique involving fixing variables based on reduced costs. We combine both techniques in a basic cutting-plane algorithm and test the performance of the resulting algorithm by running it on randomly generated instances.

■ MB-19

1 - Strategic Inventories and Supply Chain Structure
Sudheer Gupta

2 - Partially Observable Total-Cost Markov Decision Processes with Borel State Spaces and their Applications
Eugene Feinberg, Pavlo Kasyanov, Michael Zgurovsky

Cancellation
On Optimal Tax Planning and Inventory Systems with Perishable Items
Nilofar Varzgani, Suresh Govindaraj, Michael Katehakis

4 - Inventory Models with Omega-Distributed Demand
Lee Papayanopoulos

■ MB-33

1 - Investigating the Role of Electrified Vehicles for Automotive Industry Supply Chain and Fleet Sustainability
Matthias Kannegiesser, Hans-Otto Guenther, Niels Autenrieb

2 - A Multi-Objective Modeling Approach for Intermodal Transport Planning with Environmental Aspects
Martin Hrusovsky, Emrah Demir, Wolfgang Burgholzer, Werner Jammernegg, Tom Van Woensel

Cancellation
On the Effectiveness of Emission Prices in Decentralized Supply Chains
Saif Benjaafar, Xi Chen

■ MB-38

1 - Supply Chain Management for the Design of Future Biorefineries
Sara Giarola, Nilay Shah

2 - Modelling the European Biofuel Supply Through a Mixed Integer Programme Linked with an Agricultural Model and a Refining Model
Frederic Lantz

Paper moved to session TE-08
Sensor and Controller on Bio-diesel Fuel Market for Eco-efficient Policy Making
Noriaki Koide, Koji Okuhara

■ MD-13

1 - Minimization of the Tool Switches Problem - Polynomial Algorithm for a Special Case
Horacio Yanasse

2 - Due Date Quotation in Dynamic Single Machine Environment with Family Setups under Stochastic Job Characteristics
Zehra Duzgit, Ali Tamer Unal

Cancellation
Single Machine Just-in-Time Scheduling Problems with Two Competing Agents
Gur Mosheiov, Enrique (Tzvi) Gerstl

Paper moved to session TA-13
Genetic Algorithm for a Two-Agent Scheduling Problem with Position-Dependent Learning Effects
Jin Young Choi

■ MD-39

Cancellation

Optimal Strategies for Hepatocellular Carcinoma Surveillance in Hepatitis C Patients: A Societal Perspective
Turgay Ayer, Qiushi Chen, Jagpreet Chhatwal

2 - Routing and Scheduling of Urban Home Health Care Transport Systems
Christian Fikar, Patrick Hirsch

3 - Competing on Quality: Evidence from Award Winning Hospitals in California
Bogdan Bichescu, Wei Wu, Randy Bradley

4 - Simulation of an Elevator Bank
Preston White

■ MD-44

1 - Metaheuristic to Improve Career Progression in an Organization with N Functional Careers
João Barata, Rui Deus

2 - Modeling Innovation Resistance in Technology Diffusion: An Agent-Based Approach
Martin Zsifkovits, Markus Günther

3 - Simulation Approach for the Distribution Strategy and Fleet Design of a Major e-Commerce Provider in Santiago-Chile
Cristián Cortés, Jaime Miranda, Cristobal Pineda, Pablo A. Rey

Cancellation
Negotiation Mechanisms, Mutually Carried out Investments, and Incentive Compatibility
Alexander Brauneis, Stephan Leitner, Alexandra Rausch

■ ME-08

1 - Optimal Design of the Renewable Energy Production Map of Greece using a Multi-Period Goal Programming Model
Eleni Zografidou, Konstantinos Petridis, Garyfallos Arabatzis

2 - Optimal Design of Capacity Market with Startup Costs and Capacity Constraints
Marina Dolmatova, Alexander Vasin

3 - Probabilistic Pricing for Wind Farms
Natália Addas Porto, Regiane Silva de Barros, Paulo Correia

Cancellation
An Energy Environment Economy (3E) Model for Assessing Building Components from a Life Cycle Perspective
Giulia Sonetti, Patrizia Lombardi

■ ME-15

Cancellation
Bundle Pricing from Sales Data with Copula Inference
Pavankumar Murali, Wei Sun, Anshul Sheopuri

2 - Pricing of Conditional Upgrades in the Presence of Strategic Consumers
Izak Duenyas, Yao Cui, Ozge Sahin

3 - Price Drop Guarantee in the Context of Limited Inventory
Dinah Cohen-Vernik, Amit Pazgal

4 - The Reference Effects on a Firm's Dynamic Pricing and Inventory Strategies with Strategic Consumers
Shining Wu, Rachel Zhang, Qian Liu

■ ME-34

Cancellation
Improving Computational Performance of Energy Market Models
Frieder Borggrefe, Karl-Kien Cao, Yvonne Scholz

2 - Photovoltaic Energy Production Forecast using Support Vector Regression
Maila Pietrini, Renato De Leone, Antonio Giovannelli

3 - Hourly Price Forward Curve for Market Coupling
Marcus Hildmann

■ ME-44

1 - Modeling and Solution of COA Development based on Timed Influence Net and Game Theory
Jincai Huang, Chao Chen, Guangquan Cheng, Baoxin Xiu, Weiming Zhang, Cheng Zhu

2 - Lexicographic Allocations and Extreme Core Payoffs: The Case of Assignment Games
Tamás Solymosi, Marina Nunez

3 - A Monotonic and Merge-Proofness Rule in Minimum Cost Spanning Tree Situations
Juan Vidal-Puga, Gómez-Rúa María

Paper added to session
4 - Co-authorship Model with Link Strength
Leandro Rego, Statistics, Universidade Federal de Pernambuco, Rua Muniz Tavares 25, apt. 902, Jaqueira, 52050-170, Recife, PE, Brazil, leandro.ufpe@gmail.com, Andrea Maria dos Santos

We generalize a network model for co-authorship by allowing connections with different link strengths. Such link strengths may represent the number of papers a couple of authors have work together on. We investigate which networks structures are efficient and pairwise stable. We analyze a case in which link strengths are unbounded and another considering that they are bounded. We show that there is no pairwise stable network in the first case, while in the second case, the pairwise stable networks consist of disjoint completely connected components in which all the link strengths are maximal.

Tuesday

■ TA-06

1 - Health Care Supply Chain Design from a Stakeholder's Perspective
Nico Vandaele, Catherine Decouttere, Stef Lemmens

2 - Re-Examining the Patient Experience: Using Process Design and Trajectory to Improve Patient Satisfaction in Physician Practices
Grady S. York, Gary Garrison

Cancellation
Patients without Patience: An Econometric Model of Waiting in the Intensive Care Unit
Elisa Long, Kusum Mathews

■ TA-08

Cancellation
Pricing Models for Electric Vehicle Charging
Peter Letmathe, Ilhana Mulic, Ramajothi Ramsundar

2 - E-Mobility: Influence of the Second Life of used Batteries on Profit and Demand
Ilhana Mulic, Peter Letmathe, Ramajothi Ramsundar

3 - Electric Vehicles with a Battery Switching Station: Adoption and Environmental Impact
Buket Avci

4 - Combinatorial Optimization to Energy Management of an Electric Vehicle
Pierre Lopez, Yacine Gaoua, Stéphane Caux

■ TA-13

1 - A Project Scheduling Algorithm Considering Resource Constraints and Seasonal Effects
Servet Hasgul, Cem Atasever

2 - Project Scheduling with Rework: An Application in the Animation and Videogame Industry
Gonzalo Enrique Mejia Delgadillo, Karen Niño, Maria Angélica Sánchez Olaya

3 - Multimode TCSP with Generalized Temporal Constraints: A MILP Formulation
Tamara Borreguero, Miguel Ortega-Mier, Álvaro García-Sánchez

Paper moved from session MD-13

4 - Genetic Algorithm for a Two-Agent Scheduling Problem with Position-Dependent Learning Effects
Jin Young Choi

■ TA-37

1 - LP Well-Posedness for Bilevel Vector Equilibrium and Optimization Problems with Equilibrium Constraints
Somyot Plubtieng, Phan Quoc Khanh

2 - Well-Posedness for the Bilevel New Generalized Mixed Equilibrium Problems in Banach Spaces
Rabian Wangkeeree

3 - Existence and Convergence of Common Fixed Points via an Iterative Projection Technique for Two Strict Pseudo-Contractions in Hilbert Spaces
Kasamsuk Ungchittrakool

Cancellation
Hybrid extragradient method for finding a common solution of the split feasibility and system of equilibrium problems
Wiyada Kumam, Jitsupa Deepho, Poom Kumam

■ TA-38

1 - A Simple Algorithm for Nonconvex and Nonsmooth Minimization Problems
Shoham Sabach, Jérôme Bolte, Marc Teboulle

2 - Sparse Optimization over Symmetric Sets
Nadav Hallak, Amir Beck

Cancellation
An O(1/k) First Order Algorithm for a Class of Nonsmooth Convex-Concave Saddle-Point Problems
Marc Teboulle, Yoel Drori, Shoham Sabach

■ TA-40

1 - Managing an Assemble-To-Order System with After Sales Market for Components
Mohsen Elhafsi, Essia Hamouda

Cancellation
Applying Lean Management in Complex Manufacturing Lines: The Case of Flash Chip Production
Elad Harison, Ofer Barkai

3 - A Comparison of Two Priority Rules in Kanban-Controlled Job Shop
Ali Ardalan, Rafael Diaz

4 - A Decision Support System to Facilitate the Implementation of Workload Control in Make-to-Order Companies
Yuan Huang

■ TB-16

Cancellation
Mixing Hopfield Neural Network and Probabilistic Model Method
Diana Vasilieva, Yuri Mikhailov

2 - Bayesian Sample Size Estimation for Patient Classification Survey
Anastasia Motrenko

3 - A Machine-Learning Paradigm that Includes Pointwise Constraints
Giorgio Gnecco, Marco Gori, Stefano Melacci, Marcello Sanguineti

4 - Structure Learning and Forecasting Model Generation
Vadim Strijov, Mikhail Kuznetsov, Anastasia Motrenko

■ TB-29

1 - Accident Causation Analysis with Multiple Criteria Decision Making Methods in Workplaces
Erdem Aksakal, Metin Dagdeviren

2 - Effectiveness Analysis of Ratios from Paired Comparison
William Wedley, Eng Choo, Diederik J.D. Wijnmalen

Cancellation
Prioritization of Collaborative Innovation Values
Irem Duzdar, Gulgun Kayakutlu, Bahar Sennaroglu

4 - Multi-criteria decision analysis in medical decision making
Douwe Postmus

■ TD-12

1 - The Dynamics of a Difference Equation
?brahim Yalç?nkaya

2 - On a System of Difference Equations
Abdullah Selçuk Kurbanl?

3 - Solving Fractional Vibrational Problem Using Generalized Differential Transform Method
Ummugulsum Cansu, Ozan Özkan, Suat Kurt

Paper moved from session HB-35

4 - A Model Based Systems Engineering Framework for Large Scale Enterprise Design and Management
Craig Lawton

■ TD-26

Cancellation
Fuzzy Clustering with Equity Constraints
Siamak Naderi, Kemal Kilic

2 - Multiple-criteria Fuzzy Evaluation in FuzzME - Recent Development
Pavel Hole?ek, Jana Talasova

3 - SPRINT SMEs: A Fuzzy Linguistic 2-Tuple Recommendation Approach for Allocating human Resources in Software Projects
Vassilis Gerogiannis, Pandelis Ipsilandis

4 - Direct Search methods to optimize Indoor Location Using Fuzzy Logic
Aldina Correia, Pedro Mestre, João Matias, Carlos Serôdio, Carlos Serôdio

■ TD-32

1 - Assessing Financial Incentives for Energy Policy-Making
Yulia Malitskaia, Barry OSullivan

2 - Towards Immune Genetic Algorithm for Composition of Web Services with Constraints
Khaled Sellami, Djamal Dris

Cancellation
Operational Tasks Process Design in Architecture Program based on Improved HTN
Zhang Xiaoxue

4 - Simulation as a key element of advisory system in construction engineering
Aneta Konczak, Jerzy Paslawski

■ TD-42

1 - Assessing the Effects of Spanish Financial Sector Restructuring on Branch Rivalry
Martí Sagarra, Cecilio Mar Molinero, Frank M.T.A. Busing, Josep Rialp

Cancellation
A Novel Application of Data Envelopment Analysis for Efficiency Evaluation of Banking Sector Firms
Shamaila Ishaq

3 - Credit Scoring Model with Additional Regression Parameters Taken from the Social Networks
Nataliya Soldatyuk, Michal Cerny

4 - Assessing Developing Countries Creditworthiness Using the UTADIS Multicriteria Analysis Method
Mariana Funes, José Vargas

■ TE-08

1 - Institutional Level, FDI and Pollution Tax
Salvador Sandoval, Rafael Salvador Espinosa

2 - Methodology of the Carbon Footprint in the Logistics Business Operations Applied for Food Manufacturing Companies
Juan Bermeo, Jaime Calderon

3 - Cooperation of Climate Clubs
Jan Kersting

Paper moved from session MB-38
4 - Sensor and Controller on Bio-diesel Fuel Market for Eco-efficient Policy Making
Noriaki Koide, Koji Okuhara

■ TE-31

1 - Expected Utility and Narrow Framing
Manel Baucells, Rakesh Sarin

2 - Selecting Preventive, Palliative and Fault Transmission Safeguards for Risk Management of Information Systems: A Fuzzy Approach
Antonio Jiménez-Martín, Eloy Vicente, Alfonso Mateos

3 - A Competitive Covering Tour Problem in Disaster Relief
Christian Burkart, Walter Gutjahr, Pamela Nolz

4 - Decision making in the chaotic environment of first response to disasters
Kate Hughes

Paper added to session
5 - Decision-Making Social Networks
Ali Abbas, College of Engineering, University of Illinois at Urbana-Champaign, 104 South Mathews Ave, 61801, Urbana, Illinois, United States, aliabbas@uiuc.edu

Facebook has shown us that people love to connect with others in a social network. Wikipedia has shown us that people love to offer expertise to help others. This talk presents the learnings obtained from the decision-making social network, Ahoona. We discuss the types of decisions people like to offer help on, and show tag clouds for preferences, uncertainties and alternatives for decisions in our daily lives.

Thursday

■ HA-04

Cancellation
A Network Model for Capped Distance-Based Tolls
Michael Florian

2 - Extensions of the Macroscopic Fundamental Diagram to Multimodal Traffic
Nicolas Chiabaut

3 - A Mathematical Proof for the Optimal Perimeter Control Policy at an Urban Region
Jack Haddad, Ilya Ioslovich

4 - Modeling and Control of Large Scale Multimodal Urban Networks
Nikolas Geroliminis, Konstantinos Ampountolas, Nan Zheng

■ HA-16

1 - Partial Orders Combining for the Object Ranking Problem
Mikhail Kuznetsov, Vadim Strijov

2 - An Interactive Approach for Multicriteria Selection Problem
Anil Kaya, Ozgur Ozpeynirci, Selin Ozpeynirci

3 - Data-Driven Robustness Analysis for MCDA Preference Disaggregation Approaches
Michael Doumpos, Constantin Zopounidis

Paper moved from session FB-40
4 - Linking Voice of Industry (Recruiters) with B-Schools' Service Operations using Q Sort Technique through Quality Function Deployment
Jitendra Sharma, Tinu Agrawal

■ HA-22

1 - The Role of Operations in New Product Development Alliances
Niyazi Taneri, Arnoud De Meyer

Cancellation
Sequential Inspection Games
Boaz Golany, Yael Deutsch

3 - Openshop Sequencing Games
Pedro Calleja

4 - Solution Concepts in Influence Games
Fabián Riquelme, Xavier Molinero, Maria Serna

■ HA-32

1 - Sustainable Supply Chain Management: Developing a Framework through Conceptual Modelling
Norma Harrison, Tayyab Amjed

2 - Application of Inequality between Arithmetic and Geometric Mean to Optimization of Economic Functions
Zrinka Lukac, Vedran Kojic

3 - Changing Production Chain by using 3D-Printing
Maria Mavri

Cancellation

Analytical Hierarchy Process and SCOR Model to Support Supply Chain Re-Design: A Case Study in an Airline MRO Provider
Jaime Palma

■ HB-12

1 - Decentralized Multi-Project Scheduling: Review and Classification
Andreas Fink, Jörg Homberger

Cancellation

An Extension of the Resource Constrained Multi-Project Scheduling Problem with Financial Constraints
Adolfo Lopez-Paredes

3 - Benchmark Instances and Solutions for the Decentralized Multi-Project Scheduling Problem
Jörg Homberger, Andreas Fink

Paper moved from session FB-08

4 - Two-Level Heuristic Algorithm for the Hierarchical Scheduling Problem
Zdenek Hanzalek, Roman Capek, Premysl Sucha

■ HB-35

1 - An Agent-based Simulation of the Diffusion of Intelligent Technical Systems in Future Markets
Christian Stummer, Lars Lüpke, Sabrina Backs

2 - A Bayesian Negotiation Model for Reliability and Price
María Jesús Rufo Bazaga, Jacinto Martín, Carlos Javier Pérez Sánchez

3 - Simulated Determination and Usage of a Clearing Function for Leadtime Estimation
Frank Herrmann

Paper moved to session TD-12

A Model Based Systems Engineering Framework for Large Scale Enterprise Design and Management
Craig Lawton

■ HB-39

1 - SLH Algorithm for Solving Hamiltonian Cycles Problem
Vladimir Ejov

2 - Investigating the Robustness of the TSP Routes through the Recognition of Special Structured Matrices
Azmin Azliza Aziz

3 - Conjecture about the Extremal Graphs for the Geometric-Arithmetic Index with Given Minimum Degree
Ljiljana Pavlovic, Tomica Divnic, Milica Milivojevic

Paper moved from session FA-02

4 - A Kind of Rollout Algorithm for N-Vehicle Exploration Problem
Xiaoya Li

■ HB-40

1 - Meta-Analytics for Market Basket Analysis
Antonio Ladrón de Guevara, Helena Ramalhinho Lourenco, Pedro Martins

2 - A Regret Model Applied to the Maximum Coverage Location Problem with Queue Discipline
Francisco Silva, Pedro Nunes, Helena Ramalhinho Lourenco

3 - Advances in Solving Max 3-SAT Problems
Peter Greistorfer, Cornelia Rainer, Haibo Wang, Gary Kochenberger

Cancellation

A New Tabu Search Approach for solving the Quadratic Assignment Problem
Haibo Wang, Zhipeng Lu, Fred Glover, Gary Kochenberger

■ HB-44

1 - The Impact of Supply Chain Disruptions on Stockholder Wealth in Japan
Jiangxia Liu, Kumar Sanjay, Ashutosh Deshmukh

Cancellation

A Supply Chain Risk Management Model with Random Demands
Yash Daultani, Ravi Suman, Sushil Kumar, Omkarprasad S Vaidya, Manoj Tiwari

Cancellation

Optimal Access Restoration for Disaster Response with Explicit Consideration of Human Suffering
Felipe Aros-Vera, Jose Holguin-Veras

■ HD-03

Cancellation

The Maximin HAZMAT Routing Problem: Exact and Heuristic Procedures
Vladimir Marianov, Andres Bronfman, Armin Lüer-Villagra, Germán Paredes-Belmar

2 - An Empirical Comparison of Customer Retail Patronization Models
Burcin Bozkaya, Seda Ugurlu, Vivek Singh, Alex Pentland

3 - A Two-Stage Stochastic Transportation Problem with Fixed Handling Costs and A Priori Selection of the Distribution Channels
Yolanda Hinojosa, Justo Puerto, Francisco Saldanha-da-Gama

4 - Optimal Location of Battery Stations and its Charger for Electric Vehicles Based on Japanese Road Networks
Yudai Honma, Shigeki Toriumi

■ HD-04

1 - Optimisation of Multi-Lane Motorways in Presence of Vehicle Automation and Communication Systems
Claudio Roncoli, Markos Papageorgiou, Ioannis Papamichail

Paper added to session

2 - Optimizing Real-Time Traffic Information for Freeways

Klaus Bogenberger, Intelligent Transportation Systems, University FAF Munich, Werner-Heisenberg-Weg 39, 85577, Neubiberg, Germany, Klaus.Bogenberger@unibw.de, *Gerhard Huber*

When Real-Time Traffic Information (RTTI) is provided via a color-coded map of a freeway network, usually only a few speed-classes are used to illustrate the current traffic states, even though exact speed values are available. A scheme for quantifying the resulting loss of information on motorways is introduced. Different algorithms to optimize the quality of RTTI leading to highly nonlinear problems are developed. These NLPs are solved using genetic algorithms or, if possible, they are transformed into shortest path problems. Both approaches are tested with real data of a German freeway.

3 - Integrated Control of a Urban Freeway Off-ramp and Neighboring Intersections

Xianfeng Yang, Yang Lu, Gang-Len Chang

4 - An Optimal Fleet Allocation of Emergency Response Teams on Freeway Using a Two-Stage Stochastic Programming

Hyoshin Park, Ali Haghani

■ HD-06

1 - Ad Exchanges and the Problem of Disclosing Information

Sofia Ceppi

2 - Railroads and Economic Growth: A Trade Policy Approach

Fernando Pérez Cervantes

Cancellation
Optimal Contracting in Networks
Ali Jadbabaie, Alireza Tahbaz-Salehi

4 - The Impact of Valuation Heterogeneity and Network Structure on Equilibrium Prices in Supply Chains

Alper Nakkas, Yi Xu

■ HD-30

1 - Cournot Duopolies with R&D Investment

Bruno M.P. M. Oliveira, Joana Becker, Alberto Pinto

2 - Dynamic Management Model of Small Work Groups

Liliya Mukhamedrakhimova, Ilmira Gerasimova

Cancellation
Nonlinear Model Predictive Control of a Renewable Resource
Lotfi Tadj, Messaoud Bounkhel

4 - Dynamic Model of a Multi-Product Manufacturing System

Juliana Keiko Sagawa, Marcelo Nagano

■ HD-31

1 - Scheduling Wireless Networks: The Advantage of Co-operation

Celia Glass

2 - Incremental Network Design for Maximum Flows

Thomas Kalinowski, Dmytro Matsypura, Martin Savelsbergh

3 - A Branch-and-Price Algorithm for Communication Systems with High Error Correction Capability

Banu Kabakulak, Z. Caner Taşk?n, Ali Emre Pusane

Cancellation

Forwarding Strategies for Congestion Control in Intermittently Connected Networks

Marcello Sanguineti, Marco Cello, Giorgio Gnecco, Mario Marchese

■ HE-07

1 - Modified FCM Method to Explore Variations in a Multi-Variable Field

Metin Ger

Cancellation
Supplier Selection in a Fuzzy and Probabilistic Environment
Sarah Bakhtiari, Ahmad Makui

3 - Decision Making in Interface Selection

Mehmet Burak ?enol, Metin Dagdeviren, Mustafa Kurt

4 - Team-Oriented Assembly Line Balancing Problem: A Fuzzy Approach

Hamid Y?lmaz, Mustafa Y?lmaz, Merve Kayac? Çodur

■ HE-30

1 - Better Excel Optimisation using OpenSolver & SolverStudio

Andrew J Mason

2 - Dip and DipPy: A Decomposition-based Modeling System and Solver

Ted Ralphs

3 - CmplServer - An Open Source Approach for Distributed and Grid Optimization

Mike Steglich

Paper added to session
4 - Extensions to the OSiL schema: Matrix and cone programming

Horand Gassmann, School of Business Administration, Dalhousie University, Halifax, Nova Scotia, Canada, horand.gassmann@dal.ca, *Jun Ma, Kipp Martin, Imre Polik*

A lot of attention has been given recently to cone programming and matrix programming, using, for instance, relaxations of hard mixed integer programs using variables whose values are required to form symmetric positive semidefinite matrices or satisfy similar cone constraints. This talk presents efforts to facilitate the formulation of such problems within the OSiL framework, an XML schema used to allow a unified representation format for a large variety of mathematical optimization problem instances. OSiL is part of the OS project, an open source project under the COIN-OR umbrella.

■ HE-41

1 - Single-VRP with Simultaneous Delivery and Uncertain Pickup Data

Nadine Wollenberg, Michel Gendreau, Rüdiger Schultz

Cancellation
Stochastic Single Vehicle Routing with Pickups and Deliveries, Continuous Demands and a Predefined Customer Sequence
Epaminondas Kyriakidis

3 - The Vehicle Routing Problem with Stochastic Two-Dimensional Items

Jean-François Côté, Michel Gendreau, Jean-Yves Potvin

4 - A Priori Optimization with Recourse for the Vehicle Routing Problem with Hard Time Windows and Stochastic Service Times

Fausto Errico, Guy Desaulniers, Michel Gendreau, Louis-Martin Rousseau

Friday

■ FA-01

1 - **Simultaneous Network Expansion and Global Frequency Setting on Railway Systems**
Francisco Lopez-Ramos, Esteve Codina, Ángel Marín

2 - **Allocating the Railway Capacities to Extra Trains**
Soon-Heum Hong, Bum Hwan Park

Cancellation
The Application of Complex Structures to the Analysis and Design of Railway Networks
Juan A. Mesa, Gilbert Laporte, Alicia De Los Santos Pineda

4 - **Integer Programming Model for Planning Accompanied Combined Transport Operations in India**
Amit Upadhyay, Nomesh Bolia

■ FA-02

1 - **A Decomposition Approach for the Inventory Routing Problem**
Carlos Franco, Verena Schmid

2 - **A Multi-Depot Vehicle Scheduling Problem in a Public Transportation System in Quito**
Luis Torres, Ramiro Torres

3 - **An Unsupervised Fuzzy Clustering Approach to the Capacitated Vehicle Routing Problem**
Henrique Ewbank, Peter Wanke, Abdollah Hadi-Vencheh

Paper moved to session HB-39
A Kind of Rollout Algorithm for N-Vehicle Exploration Problem
Xiaoya Li

■ FB-08

1 - **Decision Support System (DSS) Based on Dynamic Programming with Fuzzy Returns for Optimal Management of Natural Resources**
Lidija Zadnik Stirn

2 - **Graphing Tri-Criterion Nondominated Surfaces**
Maximilian Wimmer, Ralph E. Steuer

3 - **Maximising Diversity in Combinatorial Scenario Spaces**
Christian Carling, E Anders Eriksson

Paper moved to session HB-12
Two-Level Heuristic Algorithm for the Hierarchical Scheduling Problem
Zdenek Hanzalek, Roman Capek, Premysl Sucha

■ FB-09

1 - **Combinatorial Optimization Enhances the Energy Output of Electric Power Networks**
Christiano Lyra Filho, Celso Cavellucci, Fábio Usberti, José Federico Vizcaino

2 - **Lying Generators**
Dávid Csercsik

3 - **Seasonal Transmission Switching with N-1 Reliability Requirements**
Jorge Valenzuela, Masood Jabarnejad, Jianhui Wang

Cancellation
A Nonlinear Electrical Capacity Planning Model with Application to the Case of Indonesia
Wanshan Zhu

■ FB-23

1 - **A Variable Neighbourhood Metaheuristic for the Clustered Vehicle Routing Problem**
Christof Defryn, Kenneth Sörensen

2 - **Iterated Local Search Algorithm for the Open Vehicle Routing Problem with Time Windows**
Jose Brandao

Cancellation
A Parallel Iterated Local Search Heuristic for Heterogeneous Fleet Vehicle Routing Problems
Juliana Silva, Puca Huachi Penna, Eyder Rios, Ricardo Farias, Luiz Satoru Ochi

4 - **A Parallel Iterated Local Search Algorithm on GPUs for Quadratic Assignment Problems**
Erdener Ozcetin, Gurkan Ozturk

■ FB-26

1 - **Convexification in Multiobjective Semi-Infinite Programming**
Francisco Guerra-Vázquez, Jan-J Ruckmann

2 - **A Proximal Point Method with Generalized Distances for a Class of Bilevel Equilibrium Problems**
João Xavier da Cruz Neto, Glaydston Bento, Jurandir Oliveira, Pedro Soares Junior, Antoine Soubeyran

Cancellation
Nonsmooth Multiobjective Bilevel Optimization Problem under Generalized Invexity
Hachem Slimani, Karima Bouibed, Mohammed Said Radjef

4 - **Bilevel Road Pricing: A Solution Algorithm**
Susanne Franke

■ FB-36

Cancellation
Optimal Resource Allocation for Effective Health Care Delivery in Niger Delta Region of Nigeria - an Invariant Property Based Algorithm Approach
Idorenyin Etukudo

Cancellation
Selecting Basic Insurance Organizations' covered Medications in Iran
Arash Aliakbari, Seyedeh Hoda Shajari, Hamid Pourasghari, Mohammadreza Mehregan, Fatemeh Boloori, Farnaz Hooshmand Khaligh, Jamaleddin Kedmati

3 - **HIV Diagnostic Service Delivery in South Africa: Scenario Analysis using a Multi-Objective Version of the Uncapacitated Fixed-Charge Location Model**
Louzanne Oosthuizen, Johannes Gerhardus Benade, James Bekker

4 - **Models for Preventing and Treating Malaria in Resource-Constrained Regions**
Susan Martonosi

■ FB-40

1 - **Local-Scale Maximum Daily Ozone Prediction by using Artificial Intelligence Techniques**
Bing Gong, Joaquin Ordieres-Mere

2 - **A Bagging-Based Undersampling Strategy for Classification: A Customer Churn Prediction Application**
Kristof Coussement, Geert Verstraeten

3 - **Assessing Entrepreneurial Potential of Individuals using Principal Component Analysis**
Sabri Erdem, Nilay B?çakc?o?lu, Mehmet Ça?l?yangil

Paper moved to session HA-16

Linking Voice of Industry (Recruiters) with B-Schools' Service Operations using Q Sort Technique through Quality Function Deployment
Jitendra Sharma, Tinu Agrawal

■ FB-43

Paper added to session

1 - GAM Models Explore Non-Parametric Feature of UK SMEs Performance During Financial Crisis

Jake Ansell, Business Studies, The University of Edinburgh, 29 Buccleuch Place, EH4 1ET, Edinburgh, United Kingdom, J.Ansell@ed.ac.uk, *Meng Ma, Galina Andreeva*

This paper extends our understanding of SMEs performance during the past crisis from standard models into semi parametric methods. Employing Generalized Additive Models (GAM) to investigate both linear and nonparametric features of UK SMEs provides useful insight. We find nonparametric effects are significant for both start-up SMEs and non-start-ups. GAM models improve our understanding of comprehensive SMEs performance during the switch in the economy. Several measures have been used for comparison with standard models.

2 - Lending Decisions with Limits on Capital Available
Lyn Thomas, Mee Chi So

3 - Feasible Algorithms for Lattice and Directed Subspaces
Piotr Wojciechowski, Vladik Kreinovich, Jennifer Del Valle