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

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 instances.

**MB-14**

1. The Parallel Machine Scheduling Problem with Job Priorities and Sequence-Dependent Setup Times
   Chau-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

4. New (facet-defining) valid inequalities for a time-indexed formulation
   Lotte Berghman, Toulouse Business School, France, l.berghman@tbs-ecoutation.fr, Frits Spieksma, T’kindt

**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 Zgurowsky

**MB-33**

1. Investigating the Role of Electrified Vehicles for Automotive Industry Supply Chain and Fleet Sustainability
   Matthias Kanegiesser, Hans-Otto Gaenther, Niels Auterieb

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

**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

**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

**MD-39**

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

Cancellation
Optimal Strategies for Hepatocellular Carcinoma Surveillance in Hepatitis C Patients: A Societal Perspective
Turgay Ayer, Qushi 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

■ 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
Maiia 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 Nunes

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

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, Ihlana Mulic, Ramajothis Ramsundar

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

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

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

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
İbrahim Yalçınkaya

2 - On a System of Difference Equations
Abdullah Selçuk Kurbanlı

3 - Solving Fractional Vibrational Problem Using Generalized Differential Transform Method
Umutgulsam Cansu, Ozan Özkın, 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 Kılç

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
Alden Correa, Pedro Mestre, João Matias, Carlos Serôdio, Carlos Serôdio

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| 1 - Assessing Financial Incentives for Energy Policy-Making
Yuliia Malitskaia, Barry OSullivan |
| 2 - Towards Immune Genetic Algorithm for Composition of Web Services with Constraints
Khaleed 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

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| 1 - Assessing the Effects of Spanish Financial Sector Restructuring on Branch Rivalry
Marti 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
Shamaia 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, Jose Vargas |

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| 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 |

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

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| 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
Nikolaos Geroliminis, Konstantinos Ampountolas, Nan Zheng

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| 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 |

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| 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
Fabían Riquelme, Xavier Molinero, Maria Serna

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| 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 Kojić

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 Hanzałek, 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 Baks

2 - A Bayesian Negotiation Model for Reliability and Price
Maria 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 Dvivac, 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 Lourenço, Pedro Martins

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

3 - Advances in Solving Max 3-SAT Problems
Peter Greistraffer, 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 Koncolci, Markos Papageorgiou, Ioannis Papanichail
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
Xianteng 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
Soňa Ceppi

2 - Railroads and Economic Growth: A Trade Policy Approach
Fernando Pérez Cervantes

Cancellation
Optimal Contracting in Networks
Ali Jadabaie, Alireza Tabbaz-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 Bounkhal

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 Ginecco, 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
1 - Simultaneous Network Expansion and Global Frequency Setting on Railway Systems
Francisco Lopez-Ramos, Esteve Codina, Angel 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

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

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, Gladston 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

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 Ozçetin, Gurkan Ozturk

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

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

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

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

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

3 - Assessing Entrepreneurial Potential of Individuals using Principal Component Analysis
Paper moved to session HA-16

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

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