# **EURO 2018**

**Short Program** 

July 11, 2018

# TECHNICAL PROGRAM

# Sunday, 17:30-19:00

# **■ SA-01**

Sunday, 17:30-19:00 - UPV Nexus

# **Opening Session**

Stream: Opening and Closing Chair: Ramon Alvarez-Valdes

Chair: Ruben Ruiz

#### 1 - Opening session

Ramon Alvarez-Valdes, Ruben Ruiz

# Monday, 8:30-10:00

### ■ MA-01

Monday, 8:30-10:00 - UPV Nexus

# Six Decades of Interior Point Methods: From Periphery to Glory

Stream: Keynotes Chair: Attila Gilanyi

1 - Six Decades of Interior Point Methods: From Periph-

ery to Glory Tamás Terlaky

# ■ MA-02

Monday, 8:30-10:00 - SOUTH BUILDING UV S101

#### **Scheduling Practice**

Stream: Scheduling Practice Chair: Daniel Guimarans

- 1 Project scheduling in real-world test laboratories Florian Mischek, Nysret Musliu
- 2 Heuristic approaches for scheduling jobs and vehicles in a cyclic flexible manufacturing system Martin Gutjahr, Sophie Parragh, Hans Kellerer
- 3 A mixed integer programming model for airline fleet maintenance scheduling.

David Torres Sanchez

4 - A decision support system to assist airport operators solving terminal disruptions ASAP

Daniel Guimarans, Arjen Peters, Younes Boulaksil

#### ■ MA-03

Monday, 8:30-10:00 - SOUTH BUILDING UV S103

# Facility Location I

Stream: Location Analysis and Optimization

Chair: Robert Aboolian

 A Lagrangian relaxation method for solving the pmedian radius formulation

Minerva Martin del Campo, Sergio García Quiles

2 - Heuristic framework to reduce aggregation errors in location models

Carolina Castañeda P., Daniel Serra

3 - Location problems with continuous demand on a polygon with holes: characterising structural properties of geodesic Voronoi diagrams

Thomas Byrne, Jörg Kalcsics

4 - Mathematical characterization of interregional freight flows by road

Javier Rubio-Herrero, Jesús Muñuzuri

#### ■ MA-04

Monday, 8:30-10:00 - SOUTH BUILDING UV S104

# **Dynamic and Stochastic Scheduling**

Stream: Dynamic and Stochastic Scheduling

Chair: Wim Vancroonenburg

- 1 A reinforcement learning based algorithm to schedule multi-category patients at a multi-facility hospital Usha Mohan, Varun Jain
- 2 A tactical planning model for allocating resources to a project under uncertainty Tetsuo Iida, Ken-ichi Suzuki
- 3 An event-driven project planning model with a Bayesian network based approach
  Ken-ichi Suzuki, Tetsuo Iida, Akinori Yokota
- 4 Chance-constrained admission scheduling for elective surgical patients

Wim Vancroonenburg

#### ■ MA-05

Monday, 8:30-10:00 - SOUTH BUILDING UV S105

# Results on Benders' Decomposition

Stream: Mixed-Integer Linear and Nonlinear Program-

Chair: Alfredo Moreno

- 1 Simultaneously exploiting two formulations: an exact Benders decomposition approach
  Richard Lusby, Stefan Ropke, Mette Gamst, Simon
  Spoorendonk
- 2 A joint inventory-location problem under periodic review with generalized Benders decomposition
  Francisco Tapia-Ubeda, Pablo A. Miranda, Guillermo
  Cabrera-Guerrero
- 3 A Benders decomposition algorithm for quadratic network design problem

Emine Gundogdu, Sinan Gürel

 4 - The road restoration crew scheduling and routing problem: accelerated Benders decomposition using meta-heuristics

Alfredo Moreno, Pedro Munari, Douglas Alem

#### ■ MA-06

Monday, 8:30-10:00 - SOUTH BUILDING UV S106

#### Stochastic Models and Queueing

Stream: Stochastic Models and Queueing

Chair: Sarah Dendievel

 QMCD approach for perishability models: the (S,s) control policy with lead time

Yonit Barron, Opher Baron

2 - Three-moment approximation for the mean queue time of a  $\mbox{GI/G/1}$  queue

Kan Wu

3 - A discrete-time two-server queue where one server is only intermittently available

Freek Verdonck, Herwig Bruneel, Sabine Wittevrongel

4 - The power series alorithm for a queueing system with batch arrivals

Sarah Dendievel, Dieter Fiems

#### ■ MA-07

Monday, 8:30-10:00 - SOUTH BUILDING UV S107

# **Analytic Hierarchy Process I**

Stream: Analytic Hierarchy Process / Analytic Network

**Process** 

Chair: Alessio Ishizaka

 Solar energy plant project selection with hesitant fuzzy linguistic term sets based AHP decision making method

Veysel Çoban, Sezi Cevik

2 - Identifying the influencers on twitter: the case of the world championships in track cycling

Amparo Baviera-Puig, Jose Maria Lamiran Palomares, Tomas Baviera

3 - Distribution center location - allocation problem for a stationery manufacturer

Ozay Ozaydin, Ozge Tas, Begum Oktay

4 - ANPSort for sorting alternative with interdependent criteria

Alessio Ishizaka

#### ■ MA-08

Monday, 8:30-10:00 - SOUTH BUILDING UV S108

# Multi-Objective Combinatorial Optimization

Stream: Combinatorial Optimization I

Chair: Matthias Ehrgott

1 - The multiobjective Dijkstra's algorithm

Antonio Sedeño-Noda, Marcos Colebrook

2 - Leveraging single-objective heuristics to solve multiobjective problems: applications in vehicle routing Piotr Matl, Richard Hartl, Thibaut Vidal

3 - Solving a bi-objective stochastic facility location problem by branch-and-cut

Sophie Parragh, Walter Gutjahr, Fabien Tricoire

4 - Bi-objective branch-and-cut algorithms based on LP relaxation and bound sets

Matthias Ehrgott, Sune Lauth Gadegaard, Lars Relund Nielsen

#### ■ MA-09

Monday, 8:30-10:00 - SOUTH BUILDING UV S109

# The Role of Mathematical Optimization in Data Science I

Stream: European Working Group: Data Science

Meets Optimization Chair: Vanesa Guerrero

1 - Tree-structured data clustering

Derya Dinler, Mustafa Kemal Tural, Nur Evin Ozdemirel

Dealing with heterogeneous data via constrained lasso

M. Remedios Sillero-Denamiel, Rafael Blanquero, Emilio Carrizosa, Pepa Ramírez-Cobo

- 3 DCA for robust principal component analysis Hoai Minh Le, Vo Xuan Thanh
- 4 On mathematical optimization to interpret factor analysis

Vanesa Guerrero, Emilio Carrizosa, Dolores Romero Morales, Albert Satorra

#### ■ MA-10

Monday, 8:30-10:00 - SOUTH BUILDING UV S110

#### **Decision Aiding Methods I**

Stream: Multiple Criteria Decision Aiding

Chair: Salvatore Corrente Chair: Milosz Kadzinski

 Redefining the concordance index in ELECTRE by means of OWA aggregation operators

Aida Valls, Jonathan Orama

2 - On the use of semantic criteria in ELECTRE in a touristic recommender system

Antonio Moreno, Miriam Martinez-Garcia, Aida Valls, Joan

Negative interactions between criteria are not necessary in MCDA

Brice Mayag, Denis Bouyssou

4 - Selection of a sustainable third-party reverse logistics provider based on the robustness analysis of an outranking graph kernel conducted with ELECTRE I and SMAA

Milosz Kadzinski, Kannan Govindan, Grzegorz Miebs

#### ■ MA-11

Monday, 8:30-10:00 - SOUTH BUILDING UV S111

# Data Envelopment Analysis (DEA) and Performance Measurement

Stream: DEA: Theory Chair: Jesus T. Pastor

1 - A survey on measuring and decomposing overall efficiency in data envelopment analysis

Juan Aparicio, Jesús T. Pastor, José L. Zofío

- **2 A data envelopment analysis toolbox for MATLAB** *Javier Barbero Jiménez, José L. Zofío, Inmaculada C. Álvarez*
- 3 Technical efficiency in the Spanish virgin olive oil protected designations of origin: what is their real performance?

Fernando Vidal Giménez, Jesús T. Pastor, Juan Aparicio, Lidia Ortiz

4 - Does the CCD Malmquist index measures total factor productivity?

Jesus T. Pastor, Juan Aparicio

#### ■ MA-12

Monday, 8:30-10:00 - SOUTH BUILDING UV S112

# **Multiobjective Fuzzy Optimization**

Stream: Fuzzy Optimization Chair: *Mariano Jimenez-Lopez* 

1 - A better approach for solving a fuzzy multiobjective programming problem

Beatriz Hernández-Jiménez, Rafaela Osuna-Gómez, Gabriel Ruiz-Garzón, Antonio Rufián-Lizana

2 - On the use of preference-based evolutionary multiobjective optimization for solving a credibilistic portfolio selection model

Ana Belen Ruiz, Rubén Saborido, José D. Bermúdez, Mariano Luque, Enriqueta Vercher

- 3 A goal programming model for solving preferences expressed by importance weights: an application to allocate assets upon corporate sustainability criteria Mariano Jimenez-Lopez, Amelia Bilbao-Terol, Mar Arenas-Parra
- 4 A fuzzy goal programming approach tightening aspiration levels to weighted preferences

Manuel Díaz-Madroñero, Mariano Jimenez-Lopez, Josefa Mula

#### ■ MA-13

Monday, 8:30-10:00 - SOUTH BUILDING UV S201

# **Supply Chain Management I**

Stream: Supply Chain Management II Chair: *Zelong Yi* 

- 1 Supply chain profit distribution under uncertainty Songsong Liu
- 2 Effects of trust on price contract design in a supply chain

Hangfei Guo, Mahmut Parlar, Min Zhang

3 - Metrics and methods for improving resilience in agribusiness supply chains

Golnar Behzadi, Michael O'Sullivan, Tava Olsen

 4 - Sustainability building of an agricultural supply chain with a capital-constrained farmer in developing economies

Zelong Yi

#### ■ MA-14

Monday, 8:30-10:00 - SOUTH BUILDING UV S202

# On Proximal Algorithms for Structured Optimization Problems

Stream: Nonlinear Programming: Methods

Chair: Ting Kei Pong

 1 - A successive difference-of-convex approximation method for a class of nonconvex nonsmooth optimization problems

Tianxiang Liu, Ting Kei Pong, Akiko Takeda

- 2 a family of inexact sqa methods for non-smooth convex minimization with provable convergence guarantees based on the luo-tseng error bound property

  Man-Chung Yue
- Fast method for non-smooth non-convex minimization

Peng Zheng

4 - Iteratively reweighted I1 algorithms with extrapolation

Ting Kei Pong

#### ■ MA-15

Monday, 8:30-10:00 - SOUTH BUILDING UV S203

# Selective Vehicle Routing and Extended Network Design Problems

Stream: Vehicle Routing and Logistics Optimization II

Chair: Jana Ries Chair: Pablo A. Miranda

Hazard and time of exposure as objectives in HM transportation

Andrés Bronfman, German Paredes-Belmar, Vladimir Marianov, Diego Beneventti

- 2 Dynamic pricing for multi-period home delivery Alejandro Lamas
- 3 Advanced goal programming formulations for an insular traveling salesman problem with fairness concerns

Pablo A. Miranda, Jana Ries, Dylan Jones

4 - An instance-based algorithmic performance study for the INTSP using a co-evolutionary based solution approach

Jana Ries, Pablo A. Miranda

#### ■ MA-16

Monday, 8:30-10:00 - SOUTH BUILDING UV S115

# Social Networks: Community Detection and Information Propagation I

Stream: Network Optimization and Social Networks Chair: Mario Ruthmair

Robust StQP and community detection in social networks

Michael Kahr, Immanuel Bomze, Markus Leitner

- 2 Parsimonious formulations for low-diameter clusters
  Austin Buchanan, Hosseinali Salemi
- 3 Lagrangean relaxation based heuristics to solve influence maximization in social networks Evren Guney
- 4 Least cost influence propagation in (social) networks
  Mario Ruthmair, Matteo Fischetti, Michael Kahr, Markus
  Leitner, Michele Monaci

#### ■ MA-17

Monday, 8:30-10:00 - SOUTH BUILDING UV S205

#### **Accounting, Auditing and Taxation**

Stream: Operational Research in Financial and Management Accounting

Chair: Matthias Amen

 Opportunities for earnings management offered by IAS 36

Matthias Amen

2 - The cooperative bargaining game of audits - regulatory provisions for truthful reporting and independent audits

Tobias Filusch, Sascha H. Moells

- 3 The constant-growth valuation model and firmspecific inflation - theory & empirical evidence Stefan Laun, Sascha H. Moells
- 4 The impact of tax legislation on inventory and supplier selection models

. Hua Jin, Patrick Beullens

#### **■ MA-18**

Monday, 8:30-10:00 - SOUTH BUILDING UV S206

#### **Algorithms in Convex Optimization**

Stream: Convex Optimization

Chair: Alfredo Iusem

1 - Non-linear conjugate gradient method for vector optimization

Luis Roman Lucambio Perez, Leandro Prudente

2 - Gradient projection methods for the n-coupling problem

Sangho Kum

 The mathematical structure of the mathematical programming

Javier Diaz, Luis Moreno

 4 - Splitting methods for complementary eigenvalue problems

Alfredo Iusem

#### ■ MA-19

Monday, 8:30-10:00 - SOUTH BUILDING UV S207

# Vector and Set-Valued Optimization I

Stream: Vector- and Set-Valued Optimization

Chair: Lidia Huerga Chair: Vicente Novo

 Global stability results for interval optimization problems

Ruben Lopez

2 - A multiobjective trust region algorithm

Jana Thomann, Gabriele Eichfelder

3 - A global solution method for nonconvex multiobjective optimization

Julia Niebling, Gabriele Eichfelder

4 - Limit behaviour of Henig approximate proper solutions in vector optimization

Lidia Huerga, César Gutiérrez, Vicente Novo, Miguel Sama

#### ■ MA-20

Monday, 8:30-10:00 - SOUTH BUILDING UV S301

# Advances in Decision and Sensitivity Analysis

Stream: Decision Analysis and Decision Support Systems

Chair: Emanuele Borgonovo

1 - An interactive Bayesian method for multicriteria sorting problems

Canan Ulu

2 - Multidimensional attitudes in intertemporal choice Veronica Roberta Cappelli

3 - A comparison of variance-based and momentindependent sensitivity analysis approaches

Samuele Lo Piano, Emanuele Borgonovo, Andrea Saltelli

4 - Information density in sensitivity analysis and optimization

Emanuele Borgonovo

5 - Copula theory and probabilistic sensitivity measures Elmar Plischke, Emanuele Borgonovo

#### ■ MA-21

Monday, 8:30-10:00 - SOUTH BUILDING UV S303

# **Robust Project Management Approaches**

Stream: Project Management and Scheduling

Chair: Izack Cohen

 Lessons learnt from solvable cases of determining optimal policies for the RCPSP with stochastic activity durations

Erik Demeulemeester

2 - A distributionally robust approach to project planning

Ernst Roos, Dick den Hertog

- 3 Stochastic dual dynamic integer programming for financial portfolio and network revenue management Andy Sun
- 4 The robust multi-mode resource constrained project scheduling problem

Izack Cohen, Noemie Sellam Balouka

#### ■ MA-22

Monday, 8:30-10:00 - SOUTH BUILDING UV S304

#### **Data Mining in Business Analytics**

Stream: Analytics, Data Science and Data Mining Chair: Koen W. De Bock

1 - The effects of word-of-mouth and promotion on online marketplaces

I-Chi Lin, Mei-Ting Tsai, Quang Thy Lam

2 - Problematic issues of the sustainable development of real estate market and its assessment opportunities

Linda Kauskale, Ineta Geipele

 3 - Data mining based customer response prediction for a specific campaign in Penti

Fadime Üney-Yüksektepe, Neslişah Aral, Merve Mutlu, Sevra Çiçekli

4 - Properties of business cycles of post-communist countries in the European Union

Karol Szomolányi, Martin Lukáčik, Adriana Lukáčiková

#### ■ MA-23

Monday, 8:30-10:00 - SOUTH BUILDING UV S305

#### Nurse Rostering

Stream: Timetabling Chair: *Pieter Smet* 

 Preference scheduling for nurses under Danish legislation

Elin Bjørk Bodvarsdottir, Niels-Christian Bagger

- 2 Rescheduling strategies for nurse scheduling Lena Wolbeck, Natalia Kliewer
- 3 A mathematical modeling approach for robust nurse rostering

Toni Wickert, Pieter Smet, Greet Vanden Berghe

 4 - A new compact integer programming formulation for the nurse rostering problem

Pieter Smet

#### ■ MA-24

Monday, 8:30-10:00 - SOUTH BUILDING UV S306

#### Financial Mathematics and OR I

Stream: Financial Mathematics and OR

Chair: Norio Hibiki

 Optimal pension fund management under low interest rate environment using simulation-based multiperiod optimization

Rei Yamamoto

2 - Stress testing model for macro stress testing and specific events

Muneki Kawaguchi

 3 - The performance of multilevel Monte Carlo using Apache Spark

Hitoshi Inui

4 - Estimating forward looking return distribution with the generalized recovery theorem

Takuya Kiriu, Masatake Ito, Norio Hibiki

### ■ MA-25

Monday, 8:30-10:00 - SOUTH BUILDING UV S307

# CYBECO Session on Cybersecurity and Cyber-Insurance

Stream: Fintech: Economic and Financial Challenges in Cryptocurrencies

Chair: Jose Vila

1 - Assessing supply chain cyber risks

Alberto Redondo Hernández, Alberto Torres Barrán

- 2 Can protection motivation theory provide a framework to help us understand cyberinsurance uptake? Dawn Branley-Bell, Pamela Briggs
- 3 Cyber risk measurement with ordinal data Paolo Giudici

4 - Nudging optimal cyber-insurance strategies Jose Vila, Pamela Briggs, Yolanda Gomez, Dawn Branley-Bell

### ■ MA-26

Monday, 8:30-10:00 - SOUTH BUILDING UV S308

### Line Planning and Network Design in **Public Transport**

Stream: Public Transportation I Chair: Pieter Vansteenwegen

1 - Optimization methods for the trip runtime determination problem

Marjan van den Akker, Marcel van Kooten Niekerk, Han Hoogeveen

2 - Determining and evaluating alternative line plans in (near) out-of-control situations

Paul Bouman, Rolf Van Lieshout, Dennis Huisman

- 3 Local evaluation techniques in bus line planning Evert Vermeir, Pieter Vansteenwegen
- 4 Flexible bus lines for congested areas Pieter Vansteenwegen, Elina Avila-Ordóñez

#### ■ MA-27

Monday, 8:30-10:00 - SOUTH BUILDING UV S309

#### **Remanufacturing Operations**

Stream: Production, Service and Supply Chain Management

Chair: Mahdi Abolghasemi

1 - Dynamic programming models for joint incentive and dispatching decisions for collection centers in remanufacturing

Mehmet Alegoz, Onur Kaya

- 2 Remanufacturing as a competitive strategy Xiang Zhu
- 3 Hierarchical forecasting in supply chain Mahdi Abolghasemi

# ■ MA-28

Monday, 8:30-10:00 - SOUTH BUILDING UV S310

# **Optimization Models in Multiple Classifier Systems**

Stream: Multiple Classifier Systems and Applications Chair: Sureyya Ozogur-Akyuz

1 - Statistical tests for forecasting model selection in meta learning: a new approach

Sasan Barak, Sven F. Crone

2 - Improved MIP-formulations and suited solution procedures for the parking lot layout planning (PLLP) problem

. Konrad Stephan, Nils Boysen, Felix Weidinger

3 - Integrating individual and aggregate diversity in top-N recommendation

Ethem Canakoglu, Ibrahim Muter, Tevfik Aytekin

4 - Ensemble learning by disciplined convex and concave programming

Pinar Karadayi Atas, Sureyya Ozogur-Akyuz

### **■** MA-29

Monday, 8:30-10:00 - SOUTH BUILDING UV S311

#### Game Theory, Solutions and Structures I

Stream: Game Theory, Solutions and Structures Chair: Encarnación Algaba

- 1 Associated consistency, value and graphs Florian Navarro, Gerard Hamiache
- 2 Supermodular functions on finite distributive lattices Michel Grabisch, Tomas Kroupa
- 3 Superweak differential marginality and the weighted Shapley values

André Casajus

4 - Solutions for games with a hierarchical structure Encarnación Algaba, Rene van den Brink

### ■ MA-30

Monday, 8:30-10:00 - SOUTH BUILDING UV S312

#### **Evolutionary metaheuristics**

Stream: Metaheuristics Chair: Robert Manger

- 1 Genetic programming approach for concurrent realtime optimization of detecting unexpected tasks in embedded systems design process Adam Górski, Maciej Ogorzałek
- 2 Determination of GNSS / levelling geoid by reducing model points with PSO

Mehmet Akif Sahman, Kemal Tutuncu, Ekrem Tusat

- 3 An estimation of distribution algorithm based on pmedian model for cell formation problem Saber Ibrahim, Bassem Jarboui
- 4 An evolutionary algorithm for the robust maximum weighted independent set problem Ana Klobučar, Robert Manger

#### ■ MA-31

Monday, 8:30-10:00 - SOUTH BUILDING UV S313

#### Behaviour in Models I

Stream: Behavioural OR Chair: Rudolf Vetschera

1 - Data-driven behavioral models of water reservoir op-

Matteo Giuliani, Andrea Castelletti, Jonathan Herman

2 - Influence modeling: mathematical programming representations of persuasion under either risk or uncertainty

William Caballero, Brian Lunday

3 - Managing complex adaptive systems: resource/agent modelling perspective

Ross Kazakov, Susan Howick, Alec Morton

4 - Using the Zeuthen-Hicks bargaining model to identify a fixed pie bias in negotiations

Rudolf Vetschera

#### ■ MA-32

Monday, 8:30-10:00 - SOUTH BUILDING UV S314

#### **Game Theory Models for Transportation**

Stream: Routing, Logistics, Location and Transporta-

tion

Chair: Namchul Shin

1 - Attacker-defender model against QR-adversaries for cyber security in logistics management

Kam-Fung Cheung, Michael Bell, Behnam Fahimnia, Federico Bettini

- 2 Collaborative allocation of transportation via combinatorial auctions: central vs. individual mechanisms Daniel Nicola
- 3 Game theoretical analysis of channel power structures for two-manufacturers-two-retailers Tatsushi Nishi
- 4 Creating shared value from collaborative logistics systems

Namchul Shin

#### ■ MA-33

Monday, 8:30-10:00 - SOUTH BUILDING UV S315

# **Emerging Applications in Game Theory**

Stream: Variational Inequalities

Chair: Patrizia Daniele

1 - On a family of transportation network cooperative

Giorgio Gnecco, Yuval Hadas, Marcello Sanguineti

- 2 The impact of budget constraints on the interaction between fund-raising and procurement operations Fuminori Toyasaki, Emel Arikan, Lena Silbermayr
- 3 Game theoretic scenarios of cybersecurity investment models in a sellers-buyers market Monica-Gabriela Cojocaru, Spencer Kirbyson

4 - How to increase the impact of disaster relief: a study of transportation rates, framework agreements and product distribution

Timo Gossler, Tina Wakolbinger, Anna Nagurney, Patrizia Daniele

#### ■ MA-34

Monday, 8:30-10:00 - SOUTH BUILDING UV S113

#### Risk Management for Insurance

Stream: Insurance and Pension Risk Management Chair: Susanna Levantesi

1 - Enterprise risk management and economies of scale and scope: evidence from the German insurance in-

Thomas Berry-Stoelzle, Muhammed Altuntas, John David Cummins

2 - Benchmark loss distributions in insurance regula-

Cosimo Munari, Valeria Bignozzi, Matteo Burzoni

3 - Securities lending in insurance Enrico Biffis

#### ■ MA-48

Monday, 8:30-10:00 - 4D UPV B.3

# **Optimisation Models for Humanitarian** Logistics

Stream: Humanitarian Operations

Chair: Begoña Vitoriano

1 - Lexicographic optimization in a time-dependent evacuation model

M. Teresa Ortuno, Inmaculada Flores, Gregorio Tirado, Begoña Vitoriano

2 - E-voucher distribution routing and planning for Syrian refugee camps in Turkey

Ramez Kian, Gunes Erdogan, Sibel Salman, Bahar Yetis Kara, Muhittin Hakan Demir, Ehsan Sabet, Sander de Leuw

3 - Routing of mobile pharmacies to address drug stockout inequity in developing countries

Rajan Batta, Biplab Bhattacharya, Li Lin

4 - Strategic facility location and tactical resources allocation under uncertainty for natural disaster response

Adán Rodriguez, Begoña Vitoriano, M. T. Ortuno, Laureano Fernando Escudero, Juan Francisco Monge

#### ■ MA-49

Monday, 8:30-10:00 - 4D UPV B.4

#### IBM Research Applications I

Stream: IBM Research Applications

Chair: Andrea Simonetto

1 - Transmission-constrained unit commitment: decomposition-based approach

Claudio Gambella, Jakub Marecek, Sara Pezic Djukic, José María Fernández Ortega, Martin Mevissen, Mustafa Pezic

2 - Optimal microgrid design - a piecewise linear approximation

Ramachandra Rao Kolluri, Julian de Hoog

#### ■ MA-50

Monday, 8:30-10:00 - 4D UPV 1.1

# Logistics and Transportation in Biomass-Based Supply Chains

Stream: Biomass-Based Supply Chains

Chair: Taraneh Sowlati

 Combining dynamic vehicle routing with multiple stock size cutting stock problem in forestry harvesting

Laura Climent

2 - Searching synergies between timber production and non-wood forest products for multi-objective forest management

Mikko Kurttila, Timo Pukkala, Jari Miina

3 - Regulation and benchmarking: a formative evaluation of Portuguese wastewater services using composite indicators

Ana Camanho, Alda Henriques, Pedro Amorim, Jaime Gabriel Silva

4 - Optimization of forest-based biomass logistics Taraneh Sowlati, Krishna Teja Malladi

#### ■ MA-51

Monday, 8:30-10:00 - 4D UPV 1.2

# OR for Sustainable Development in Developing Countries

Stream: OR for Sustainable Development

Chair: Olabode Adewoye

1 - Measuring footprint in supply chain: an important contribution in achieving green supply chain Rajbir Kaur, Sadia Samar Ali

2 - A comparison between multi-objective optimization approaches for the harmonization of surveillance requirements and maintenance

Pablo Martorell

#### ■ MA-52

Monday, 8:30-10:00 - 4D UPV 1.3

#### **Health Care Management**

Stream: OR for Health and Care I

Chair: Piotr Lukasiak Chair: Rommert Dekker  Queueing models in balancing hospital's capacity and patient wait times

Susan Li, Zhimin Huang

2 - Scheduling MRI appointments: a case study in Osmangazi University Hospital

Emine Akyol Ozer, Zehra Kamisli Ozturk, Asli Ergezer, Derya Bayar, Gürdeniz Hökmen

3 - A literature review on the vaccine supply chain Rommert Dekker, Evelot Duijzer, Willem van Jaarsveld

#### **■ MA-53**

Monday, 8:30-10:00 - 4D UPV 1.4

#### **Quality Management**

Stream: OR in Quality Management

Chair: Rafael Sanchez-Marquez

1 - Evaluating service quality of an art museum in South Korea using a multiple assessment model

Jimin Park, Sukran Kim, Jaewoo Chung

Combination of empirical quantile forecasts to determine the safety stock

Juan Ramon Trapero Arenas, Nikolaos Kourentzes, Manuel Cardós, Ester Guijarro, Eugenia Babiloni

3 - Quality management system diagnosis

Rafael Sanchez-Marquez

### **■ MA-54**

Monday, 8:30-10:00 - 4D UPV 1.6

#### **Sustainable Supply Chains**

Stream: Energy Economics, Environmental Management and Multicriteria Decision Making

Chair: Renzo Akkerman

1 - ToBLoOM - triple bottom line optimization modelling for sustainable supply chains under uncertainty

Ana Barbosa-Povoa, Bruna Mota, Ana Carvalho, Maria Isabel

Ana Barbosa-Povoa, Bruna Mota, Ana Carvalho, Maria Isabel Gomes

Quantitative modelling for resource efficient supply chains: a systematic review

Ursula Davis, Alok Choudhary, Grammatoula Papaioannou, Ravi Shankar

Strategic capacity planning in process industries under water scarcity

Sai Jishna Pulluru, Paloma Aparicio Escuder, Renzo Akkerman

#### **■ MA-55**

Monday, 8:30-10:00 - 4D UPV 2.1

# Speed Networking

Stream: Making an Impact I

Chair: Ruth Kaufman

Speed networking and EURO working group on practice of OR

Ruth Kaufman

### **■ MA-56**

Monday, 8:30-10:00 - 4D UPV 2.2

#### **OR** in Neuroscience

Stream: OR in Neuroscience

Chair: Dorit Hochbaum

 Voxel-MARS and CMARS: methods for early detection of Alzheimer's disease by classification of structural brain MRI

Gerhard-Wilhelm Weber, Alper Çevik

2 - Spatial separability in hub location problems with an application to brain connectivity networks

Taghi Khaniyev, Samir Elhedhli, Fatih Safa Erenay

3 - Dynamic models of the spread of neurodegenerative diseases

Hana Tomaskova, Richard Cimler, Jitka Kühnová, Ondřej Dolezal, Dalibor Cimr, Dalibor Cimr

4 - HNCcorr: a novel combinatorial optimization approach for neuronal cell identification in calcium imaging movies

Dorit Hochbaum, Quico Spaen, Roberto Asín

#### ■ MA-60

Monday, 8:30-10:00 - 4D UPV B.5

#### **ROADEF**

Stream: EURO Special Sessions

Chair: Eric Bourreau

# Monday, 10:30-12:00

#### ■ MB-01

Monday, 10:30-12:00 - UPV Nexus

# **Optimization and Music Data Science**

Stream: Keynotes Chair: Teresa Leon

1 - Optimization and Music Data Science

Elaine Chew

#### ■ MB-02

Monday, 10:30-12:00 - SOUTH BUILDING UV S101

### **Scheduling Practice in Manufacturing**

Stream: Scheduling Practice

Chair: Miriam Zacharias

Dispatching rules selection for machines and AMHS scheduling

Yung-Hsun Tsai, Ken-Hsuan Chen, Gen-han Wu

2 - Line-side material placement to minimize walking time at moving assembly lines

Helmut Sedding

3 - Measuring effectiveness of scheduling jobs with earliness and tardiness costs: a case study

Andrés Muñoz-Villamizar, Javier Santos, Jairo R. Montoya-Torres, María Jesús Alvarez

4 - Machine learning in hybrid flow shop scheduling problems with unrelated machines

Miriam Zacharias

#### ■ MB-03

Monday, 10:30-12:00 - SOUTH BUILDING UV S103

### **Facility Location II**

Stream: Location Analysis and Optimization

Chair: Mehdi Amiri-Aref

1 - Combining three facility location problems

Ana Dolores López-Sánchez, Jesus Sanchez-Oro, Manuel Laguna, Alfredo G. Hernandez-Diaz

2 - A gradual covering location problem with different facility types & customer preferences

Hande Kucukaydin, Necati Aras

3 - Optimal algorithms for two variants of inverse undesirable center location models on graphs

Behrooz Alizadeh

4 - The flood-adaptive facility location problem Mehdi Amiri-Aref, Maliheh Hashemi Tilenoi

#### ■ MB-04

Monday, 10:30-12:00 - SOUTH BUILDING UV S104

# Dynamic and Stochastic Scheduling in Logistics

Stream: Dynamic and Stochastic Scheduling

Chair: Heimir Thorisson

1 - Dynamic allocation of fire vehicles in preparedness phase for bush fires

Reena Kapoor

2 - A honey bees mating optimization algorithm with path relinking for the vehicle routing problem with stochastic demands

Yannis (Ioannis) Marinakis, Magdalene Marinaki

3 - A mixed integer model to dynamic deployment of traffic surveillance system

Roozbeh Ebrazi, S. Mehdi Hashemi, Mina Gholizadeh Atani

4 - Vessel berthing schedules under the influence of emergent and future conditions

Heimir Thorisson, Thomas L Polmateer, James H Lambert

#### ■ MB-05

Monday, 10:30-12:00 - SOUTH BUILDING UV S105

#### **Vehicle Routing**

Stream: Mixed-Integer Linear and Nonlinear Programming

Chair: Inmaculada Rodríguez Martín

1 - Dynamic parking allocation problem in urban areas Marko Mladenovic, Thierry Delot, Gilbert Laporte, Christophe Wilbaut

2 - A selective pickup and delivery vehicle routing problem with handling cost

Yali Li, Jun Yang, Ling Zhao, Yuanyuan Zhou

3 - An optimization framework for one-way electric vehicle-sharing systems with the combination of operator-based and user-based relocation Ye Zou, Chao Yang, Min Teng

4 - An exact approach for the periodic vehicle routing problem with driver consistency

. Inmaculada Rodríguez Martín, Juan José Salazar González, Hande Yaman

■ MB-06

Monday, 10:30-12:00 - SOUTH BUILDING UV S106

#### Consumer Behavior and Pricing I

Stream: Demand and Supply Management in Retail

and Consumer Goods Chair: Tamer Boyaci

1 - Analyzing retail market basket data by unsupervised machine learning methods

Harald Hruschka

2 - Flexible estimation of time-varying effects for frequently purchased retail goods

Winfried Steiner, Bernhard Baumgartner, Daniel Guhl, Thomas Kneib

3 - Dynamic pricing with multiunit purchases

Rouven Schur, Robert Klein

4 - Brand positioning and consumer taste information

Tamer Boyaci, Arcan Nalca, Saibal Ray

#### ■ MB-07

Monday, 10:30-12:00 - SOUTH BUILDING UV S107

# **Analytic Hierarchy Process II**

Stream: Analytic Hierarchy Process / Analytic Network

**Process** 

Chair: Josef Jablonsky

1 - Enhancing sustainable competitiveness of small and medium-sized enterprises using the analytic hierarchy process

Debashree De, Prasanta Kumar Dey

2 - Perception-based interval type-2 fuzzy AHP-QFD approach for evaluation of a service quality

M.Bahar Baskir

3 - Student consumers' decision-making process

Emrah Koksalmis, Gulsah Hancerliogullari Koksalmis

4 - Analytic hiararchy process as a ranking tool for efficient units in DEA models

Josef Jablonsky

#### ■ MB-08

Monday, 10:30-12:00 - SOUTH BUILDING UV S108

# Complexity Aspects of Linear and Integer **Linear Programming**

Stream: Combinatorial Optimization I

Chair: Sergei Chubanov

1 - Disjunctive conic cuts: the good, the bad, and implementation

Julio Góez

2 - Pyramidally solvable cases of the bipartite TSP Vladimir Deineko

3 - The load planning and sequencing problem for double-stack intermodal trains

Moritz Ruf, Jean-François Cordeau, Emma Frejinger

4 - Integer optimization with verification oracles Sergei Chubanov

### ■ MB-09

Monday, 10:30-12:00 - SOUTH BUILDING UV S109

#### The Role of Mathematical Optimization in **Data Science II**

Stream: European Working Group: Data Science

Meets Optimization Chair: Vanesa Guerrero

1 - On the construction of optimal randomized classification trees

Cristina Molero-Río, Rafael Blanquero, Emilio Carrizosa, Dolores Romero Morales

2 - Stochastic DCA for group feature selection in multiclass classification

Bach Tran, Hoai An Le Thi, Hoai Minh Le, Duy Nhat Phan

3 - Class probability estimation for SVM with asymmetric costs

Sandra Benítez-Peña, Rafael Blanquero, Emilio Carrizosa, Pepa Ramírez-Cobo

4 - Some improvements of SVM and SVR for functional

M. Asuncion Jimenez-Cordero, Rafael Blanquero, Emilio Carrizosa, Belen Martin-Barragan

#### ■ MB-10

Monday, 10:30-12:00 - SOUTH BUILDING UV S110

#### **Decision Aiding Methods II**

Stream: Multiple Criteria Decision Aiding

Chair: Salvatore Corrente Chair: Milosz Kadzinski

- 1 Measuring sustainable development in the education domain using multi-criteria methods: a case study Marzena Filipowicz-Chomko, Ewa Roszkowska
- 2 Multi-criteria decision making methods: theoretical aspects & impossibility results Chergui Zhor, Moncef Abbas
- 3 On importance indices in multicriteria decision mak-

Mustapha Ridaoui, Michel Grabisch, Christophe Labreuche

4 - Rankings comparisons: the case of resilience assessment of countries' electricity supply

Marco Cinelli, Patrick Gasser, Milosz Kadzinski, Matteo Spada, Peter Burgherr, Stefan Hirschberg

#### ■ MB-11

Monday, 10:30-12:00 - SOUTH BUILDING UV S111

#### **DEA Theory I**

Stream: DEA: Theory Chair: Timo Kuosmanen

1 - BCC- and CCR-efficiencies under monoradial and biradial scaling

Andreas Kleine, Andreas Dellnitz, Wilhelm Rödder

2 - Efficiency measurement with products and partially desirable co-products

Wanghong Li

3 - Profitability and scale elasticity in data envelopment analysis

Alireza Amirteimoori

4 - Synergies in joint production of multiple outputs

Timo Kuosmanen

#### ■ MB-12

Monday, 10:30-12:00 - SOUTH BUILDING UV S112

#### Fuzzy Optimization I

Stream: Fuzzy Optimization

Chair: Dobrila Petrovic

1 - A single variable method for solving min-max programming problem with addition-min fuzzy relational inequalities

Sy-Ming Guu, Yan-Kuen Wu

2 - New approach to forecast time series from a fuzzy point of view

Abel Rubio Fornés, José D. Bermúdez, Enriqueta Vercher

3 - A new fuzzy linear programming model for aggregate production planning for a supplier in the automotive industry

Ivan Djordjevic, Dobrila Petrovic

#### ■ MB-13

Monday, 10:30-12:00 - SOUTH BUILDING UV S201

# Supply Chain Management II

Stream: Supply Chain Management II Chair: Jonathan Balasingham

1 - Service offerings via shipment consolidation in supply chain logistics

M. Ali Ülkü

2 - Operational optimization of a small scale LNG supply chain

Slawomir Pietrasz, Frédéric Legrand, Gabrielle Menard, Ksenia Goloubeva

3 - Order fulfillment policies for ship-from-store opera-

Bahriye Cesaret, Armagan Bayram

4 - A model for online subscription based merchandise box operations

Jonathan Balasingham, Ayca Erdogan

#### ■ MB-14

Monday, 10:30-12:00 - SOUTH BUILDING UV S202

# Fixed Point Algorithms in Optimisation I

Stream: Nonlinear Programming: Methods

Chair: Matthew Tam

1 - The asymptotic behavior of compositions of firmly nonexpansive mappings

Adriana Nicolae

2 - Optimal rates of linear convergence of the averaged alternating modified reflections method for two subspaces

Rubén Campoy García, Francisco Javier Aragón Artacho

3 - Convergence properties of fixed point algorithms in the presence of perturbations

Rafal Zalas

4 - On projection methods for phase retrieval Hieu Thao Nguyen

#### ■ MB-15

Monday, 10:30-12:00 - SOUTH BUILDING UV S203

# New Trends in Shared-connected and Low-emission Human and Freight **Transportation Systems I**

Stream: Vehicle Routing and Logistics Optimization II

Chair: Francesca Guerriero Chair: Luigi Di Puglia Pugliese

Chair: Giusy Macrina

1 - Efficient solutions for the vehicle routing problem with occasional drivers and time windows

Paola Festa, Daniele Ferone, Francesca Guerriero

2 - The online vehicle routing problem with occasional drivers

Giusy Macrina, Claudia Archetti, Francesca Guerriero

3 - A savings-based model for two-shipper cooperative

Giovanna Miglionico, Manlio Gaudioso, Giovanni Giallombardo

4 - Cooperation among classical vehicles and drones: new opportunities for last-mile delivery process

Luigi Di Puglia Pugliese, Francesca Guerriero

#### ■ MB-16

Monday, 10:30-12:00 - SOUTH BUILDING UV S115

# **Social Networks: Community Detection** and Information Propagation II

Stream: Network Optimization and Social Networks Chair: Mario Ruthmair

1 - A parallel algorithm using VNS with shared memory and message passing interface for community detection in complex networks

Gilles Caporossi, Eglantine Camby, Sylvain Perron

2 - The expected distance based on random walks in

Eglantine Camby, Gilles Caporossi, Marcia Paiva, Segatto Marcelo

3 - Exact IP-based approaches for the longest induced path problem

Dmytro Matsypura, Alexander Veremyev, Oleg Prokopyev, Eduardo Pasiliao

#### ■ MB-17

Monday, 10:30-12:00 - SOUTH BUILDING UV S205

#### Accounting, Insolvency and Rating

Stream: Operational Research in Financial and Management Accounting

Chair: Sascha H. Moells

1 - Determinants of issuer credit ratings and the firm's decision to be rated: an international empirical study Vladlena Prysyazhna, Sascha H. Moells

2 - Investment and financing decisions in the presence of time-to-build

Haejun Jeon

3 - Performance evaluation of two-stage distress mod-

Mohammd Mahdi Mousavi

4 - Corporate insolvency prediction model in short-term perpective: the case of Lithuania

Kristina Sutiene, Kestutis Luksys, Kristina Kundeliene

#### ■ MB-18

Monday, 10:30-12:00 - SOUTH BUILDING UV S206

### **Linear Programming**

Stream: Convex Optimization

Chair: Pál Burai

1 - Locating binding constraints in LP-problems Eirini Nikolopoulou, George Manoussakis, George S.

Androulakis

2 - Lipschitz modulus of the optimal value function in linear programming: the relationship with calmness modulus

Maria Jesús Gisbert Francés, Maria Josefa Cánovas, Juan Parra, F. Javier Toledo-Melero

- 3 Interior point methods for power flow optimization problem including wind power generation Luciana Casacio, Aurelio Oliveira, João Batista Lopes
- 4 Matrix reordering and iterative methods for linear systems solving in interior point methods Aurelio Oliveira, Wellington Rodrigues, Marta Velazco

#### ■ MB-19

Monday, 10:30-12:00 - SOUTH BUILDING UV S207

### Vector and Set-Valued Optimization II

Stream: Vector- and Set-Valued Optimization Chair: César Gutiérrez

- 1 On solving convex vector optimization problems Andrea Wagner
- 2 Time consistency of the mean-risk problem Gabriela Kovacova, Birgit Rudloff
- 3 Existence of approximate strict solutions of optimization problems

Juan Luis Ródenas, César Gutiérrez, Vicente Novo

4 - A Weierstrass theorem for weakly efficient solutions of vector equilibrium problems

César Gutiérrez, Vicente Novo, Juan Luis Ródenas

#### ■ MB-20

Monday, 10:30-12:00 - SOUTH BUILDING UV S301

#### **Group Decision Processes**

Stream: Decision Analysis and Decision Support Systems

Chair: Ricardo Ribeiro

- 1 A GDSS for evaluating the criteria weights in multicriteria decision analysis with PROMETHEE Pierre Kunsch
- 2 A novel recommendation approach for group items Li-Ching Ma
- 3 Participative design methodology for spatial data warehouse: application to farmland biodiversity data Amir Sakka, Guy Camilleri, Lucile Sautot, Pascale Zaraté, Sandro Bimonte
- 4 Enhancing efficiency on productive processes using process and social collaborations mining Ricardo Ribeiro, Cesar Analide, Orlando Belo

# ■ MB-21

Monday, 10:30-12:00 - SOUTH BUILDING UV S303

# Workforce Scheduling and Line Balancing

Stream: Project Management and Scheduling Chair: Sergey Kovalev

1 - Human resources scheduling problem in a port container terminal: workload balancing and movement minimization

Kaoutar Chargui, Abdelghani Bekrar, Abdellah El Fallahi, Mohamed Reghioui

- 2 Assembly line worker assignment and balancing problem: review, benchmark and pending issues Cristobal Miralles, Marcus Ritt, Alysson Costa, Mayron César Oliveira Moreira
- 3 Decomposition methods for cost and tardiness reduction in aircraft manufacturing flow lines Alexander Biele, Lars Moench
- 4 An optimal workforce assignment problem for a paced assembly line at the line design stage . Sergey Kovalev, Xavier Delorme, Alexandre Dolgui, Mikhail Y. Kovalyov

#### ■ MB-22

Monday, 10:30-12:00 - SOUTH BUILDING UV S304

#### Big Data Analytics and Smart Systems

Stream: Analytics, Data Science and Data Mining Chair: John Wilson

1 - Implementation of exponential smoothing forecasting method in a GPU for big data problems Juan Ramon Trapero Arenas, Marco Antonio Villegas García, Diego José Pedregal Tercero

2 - Prediction of frail state of elderlies in smart homes with simulation and sensor systems

Cyriac Azefack, Vincent Augusto, Raksmey Phan

3 - Development of anomaly detection and cause analysis of unmanned robot line

Jae Yeol Hong, Jun-Geol Baek

4 - Dynamic modelling of software errors John Wilson, Dov Teeni

#### ■ MB-23

Monday, 10:30-12:00 - SOUTH BUILDING UV S305

#### Employee Timetabling

Stream: Timetabling Chair: Troels Martin Range

- 1 A behavioural operational research approach to workforce scheduling problem for integrated healthcare in UK: a case study on chronic kidney disease Fang He
- 2 Shift work scheduling of a 24/7 service operation considering staff well-being

Sanja Petrovic, Jane Parkin, David Wrigley

3 - A framework for the general employee scheduling problem

. Lucas Kletzander, Nysret Musliu

4 - Hospital-wide staff rostering: from academia to implementation

Troels Martin Range

#### ■ MB-24

Monday, 10:30-12:00 - SOUTH BUILDING UV S306

#### Financial Mathematics and OR II

Stream: Financial Mathematics and OR

Chair: Michi Nishihara

 A premium-decomposition refinement of valuing convertible bonds with continuous coupons Toshikazu Kimura

2 - Equilibrium execution strategies in generalized price impact models

Makoto Simoshimizu, Masamitsu Ohnishi

3 - Financing and investment strategies under information asymmetry

Takashi Shibata, Michi Nishihara

Bankruptcy, liquidation, and fire sales under asymmetric information

Michi Nishihara, Takashi Shibata

# **■** MB-25

Monday, 10:30-12:00 - SOUTH BUILDING UV S307

# **Economic and Financial Challenges in Cryptocurrencies**

Stream: Fintech: Economic and Financial Challenges

in Cryptocurrencies Chair: *Marco Patacca* 

1 - Risk analysis models for cyber insurance Aitor Couce Vieira, David Rios

2 - Bitcoin rise and fall and market exuberance Alessandra Cretarola, Gianna Figà-Talamanca

3 - Adequate modeling for the dynamics of cryptocurrencies

Oleg Kudryavtsev, Alexander Grechko, Vasily Rodochenko

4 - Does market attention affect Bitcoin returns and volatility?

Marco Patacca, Gianna Figà-Talamanca

#### **■ MB-26**

Monday, 10:30-12:00 - SOUTH BUILDING UV S308

#### **Innovative Urban Mobility Concepts**

Stream: Public Transportation I

Chair: Konrad Steiner

1 - The on-demand bus routing problem: towards a more performant public transport system

Lissa Melis, Kenneth Sörensen

2 - Smart public transportation services - Morocco case Kenza Oufaska, Khalid El Yassini, Tarik Zouadi, Mustapha Oudani

3 - Shortest paths in public transportation networks with multiple APIs

Sean Shorten, Dominique Feillet, Alexandre Iglesias

4 - Integrating mobility-on-demand and urban public bus networks

Konrad Steiner, Stefan Irnich

#### ■ MB-27

Monday, 10:30-12:00 - SOUTH BUILDING UV S309

# **Supplier Relationships**

Stream: Production, Service and Supply Chain Man-

agement

Chair: Nader Azad

1 - After-sales emergency supply contracts with asymmetric information

Sajjad Rahimi Ghahroodi

2 - Supplier audit information sharing and responsible sourcing

Albert Ha

3 - Optimal investment decisions for recovery from disruptions in the decentralized supply chains

Nader Azad, Elkafi Hassini, Manish Verma

4 - Collaboration and coordination mechanism design and practice in sustainable supply chains

Amy Zeng

#### ■ MB-28

Monday, 10:30-12:00 - SOUTH BUILDING UV S310

# Multiple Classifier Systems and Applications I

Stream: Multiple Classifier Systems and Applications Chair: *Pinar Karadayi Atas* 

 A multi-criteria framework for ensemble learning Nikolaos Matsatsinis, Theodore Flokos, Alkaios Sakellaris, Konstantina Miteloudi

2 - Building profit-sensitive classifiers for maximum profit

Eugen Stripling, Bart Baesens, Seppe vanden Broucke

 Analysis of healthcare service utilization by mixture of hidden Markov model

Nazanin Esmaili, Massimo Piccardi, Federico Girosi

4 - A novel ensemble pruning approach for ANN-based churn prediction ensemble models

Sureyya Ozogur-Akyuz, Koen W. De Bock, Pinar Karadayi Atas

#### ■ MB-29

Monday, 10:30-12:00 - SOUTH BUILDING UV S311

#### **Power and Influence Models**

Stream: Game Theory, Solutions and Structures Chair: Josep Freixas

1 - Classes of influence games Xavier Molinero, Maria Serna

2 - Limit theorems for power indices Sascha Kurz

- 3 Power and bloc formation in a consociational democracy: lessons from the Lebanese republic Frank Steffen, Mostapha Diss
- 4 Extension and characterization of majority decision in a multiple-input multiple-output context Josep Freixas, Montserrat Pons

# ■ MB-30

Monday, 10:30-12:00 - SOUTH BUILDING UV S312

### Local search based metaheuristics

Stream: Metaheuristics Chair: Omer Ozkan

1 - Ranking-based heuristic algorithm for competitive facility location

Algirdas Lančinskas, Pascual Fernandez, Blas Pelegrin, Julius Žilinskas

2 - Dynamic stochastic tourist trip design problem with clustered POI

Airam Expósito Márquez, Simona Mancini, Julio Brito, José Andrés Moreno-Pérez

3 - A computational study on the maximum dispersion problem

Mahdi Moeini

4 - A memetic algorithm based matheuristic for satellite broadcast scheduling problem

Omer Ozkan, Sezgin Kilic

#### ■ MB-31

Monday, 10:30-12:00 - SOUTH BUILDING UV S313

#### **Behavioural Impacts in OR-Supported** Processes I

Stream: Behavioural OR Chair: Gilberto Montibeller

- 1 Online weight elicitation: is there really an issue? Alice H. Aubert, Judit Lienert
- 2 Individual differences in model comprehension and use: a study of cognitive styles and cognitive map-

Ilkka Leppanen, L. Alberto Franco

- 3 Attractiveness bias: how the decision situation influences the willingness-to-pay for information Jan Lenard Rother, Christian Koester, Maximilian Vincent Reimer
- 4 Behavioral challenges in policy analysis with conflicting objectives

Gilberto Montibeller

#### ■ MB-32

Monday, 10:30-12:00 - SOUTH BUILDING UV S314

### Supply Chains

Stream: Routing, Logistics, Location and Transporta-

Chair: Mojtaba Araghi

- 1 Scheduling of pick-up or delivery tasks for autonomous robots via dispatching rules Azmi Cibi, Tahir Ozdemir, İnci Saricicek, Ahmet Yazici
- 2 Coverage planning to account for acoustical properties associated with emergency warning sirens Hiroyuki Goto, Alan Murray
- 3 The impact of sustainable packaging used in land transfer operations

Cristian Camilo Aparicio Peralta, Ana Halabi Echeverry, Cesar Augusto Bernal-Torres

4 - Optimizing distribution and pricing strategy for a cold chain enhanced by sensor technologies Mojtaba Araghi, Sara Babaee

#### ■ MB-33

Monday, 10:30-12:00 - SOUTH BUILDING UV S315

#### Data Mining and Statistics I

Stream: Data Mining and Statistics

Chair: Florian Hauck

1 - Application of machine learning-for cost estimation in customized furniture production

Virginijus Marcinkevicius, Viktor Medvedev, Olga Kurasova, Tomas Vedlūga

- 2 Machine learning based feeder bus routing design So Young Sohn, Chung Park, Jungpyo Lee
- 3 Hidden footage of fluid actors: the evolutionary process of memberships in online communities Changwoo Suh, Habin Lee

 4 - Railway delay analytics: a data-driven approach to identify systematic train delays and measure the quality of timetables

Florian Hauck, Natalia Kliewer

#### ■ MB-34

Monday, 10:30-12:00 - SOUTH BUILDING UV S113

#### **Pension Schemes and Risk Taking**

Stream: Insurance and Pension Risk Management Chair: Massimiliano Menzietti

- 1 Peer effects in risk taking: evidence from Germany Sophie-Madeleine Roth, Mark J. Browne, Annette Hofmann, Andreas Richter, Petra Steinorth
- 2 Annuity risk management by longevity swaps in minimal Martingale measure

Tadashi Uratani

3 - Pension Schemes versus Real Estate

Valeria D Amato, Emilia Di Lorenzo, Steven Haberman, Marilena Sibillo, Roberto Tizzano

4 - Adjustment mechanisms for notional defined contribution pension systems

Susanna Levantesi, Massimiliano Menzietti

#### ■ MB-48

Monday, 10:30-12:00 - 4D UPV B.3

# **Preparedness and Response in Disaster Logistics**

Stream: Humanitarian Operations

Chair: Sibel Salman

Minimizing latency in post-disaster road clearance operations

Meraj Ajam, Vahid Akbarighadikolaei, Sibel Salman

2 - Performance of alternative linear objective functions in effectiveness fairness trade-off Gökalp Erbeyoğlu, Ümit Bilge

 3 - A multi-stage stochastic programming model for disaster response planning

Damla Kesikburun, Roozbeh Qorbanian, Sinem Özkan, Deniz Türsel Eliiyi

 Improving post-disaster road network accessibility by strengthening links against failures

Eda Yücel, Sibel Salman, Idil Arsik

#### ■ MB-49

Monday, 10:30-12:00 - 4D UPV B.4

# IBM Research Applications II

Stream: IBM Research Applications

Chair: Andrea Simonetto

1 - Correlation of multidimensional risk factors for pricing water infrastructure insurance

Samuel Chege Maina, Nathan Wangusi

- 2 Scenario planning for enterprise risk management Mark Feblowitz
- 3 A federated optimization approach to real-time urban-scale ridesharing

Andrea Simonetto, Julien Monteil, Claudio Gambella

#### ■ MB-50

Monday, 10:30-12:00 - 4D UPV 1.1

# OR for Developing Countries I

Stream: OR for Developing Countries

Chair: Gordon Dash Chair: Nina Kajiji

Chair: Herman Mawengkang

 1 - Impact of world heritage site designation on tourism industry growth in developing countries: the super slack-based Malmquist index approach

Seyedkeyvan Hosseini, Agnieszka Lejkowska

 Vaccination tour planning in remote areas of South India

Georg Gutjahr, Prema Nedungadi

3 - Social contact network models for measles control strategies in Tanzania

Seán McGarraghy, Herieth Rwezaura

4 - Efficiency assessment of smart sustainable cities based on network data envelopment analysis

Sadiye Sadanoglu

#### ■ MB-51

Monday, 10:30-12:00 - 4D UPV 1.2

#### **OR for Sustainable Built Environment**

Stream: OR for Sustainable Development

Chair: Tatjana Vilutiene

1 - Optimum design of bridges considering long-term criteria

Tatiana Garcia-segura, Víctor Yepes, Eugenio Pellicer, Laura María Montalbán Domingo

 Integrated advanced technologies for sustainable BIM-based building refurbishment

Jovita Starynina, Leonas Ustinovichius, Mantas Vaisnoras

 3 - Empirical study of BIM-based building life cycle: case of Net-UBIEP project

Tatjana Vilutiene, Arvydas Kiaulakis

# **■** MB-52

Monday, 10:30-12:00 - 4D UPV 1.3

#### Health Care Modelling (ORAHS) I

Stream: OR for Health and Care I

Chair: Sally Brailsford

- 1 Patient flow model for the EMS in the Netherlands Geert-Jan Kommer
- 2 Developing a simulation tool to support decisions around the commissioning of anticoagulation services for patients with atrial fibrillation

Christos Vasilakis, Neophytos Stylianou

3 - Medication inventory management for automatic dispensing systems

Vera Tilson, Gregory Dobson

4 - Hybrid simulation for healthcare

Sally Brailsford

# **■** MB-53

Monday, 10:30-12:00 - 4D UPV 1.4

# **Quality Control Applications**

Stream: OR in Quality Management

Chair: Javier Neira Rueda

1 - A metaheuristic method for quality control chart design under autonomation

U. Mahir Yıldırım, Ozgur Toy

2 - Showing the impact of processes improvements on the performance of Khorasan Regional Electricity Company (Mashhad, Iran) using the six sigma strategy

Khatere Ghorbani-Moghadam, Narjes Sabeghi, Ladan Behroozi, Hamid Reza Yousefzadeh

3 - Control charts for highly censored observations on the left. A contribution to processes with censored observations

Javier Neira Rueda, Andrés Carrión

# ■ MB-54

Monday, 10:30-12:00 - 4D UPV 1.6

#### **Multiobjective Decision Support**

Stream: Energy Economics, Environmental Manage-

ment and Multicriteria Decision Making

Chair: Jochem Jonkman

1 - A multi-objective methodology applied to decision support for high-pressure thermal processes in food treatment

Benjamin Ivorra, Miriam Ruiz Ferrández, Juana Lopez Redondo, Pilar M. Ortigosa, Angel Manuel Ramos

2 - Multi-objective optimization for metering device location in water supply networks

Joaquín Izquierdo, Jorge Francés-Chust, Manuel Herrera, Idel Montalvo Arango

3 - A goal-programming model for the WEEE recovery operations planning

Sule Itir Satoglu, Alperen Bal

4 - Decision support modelling for food processing chains

Jochem Jonkman, Jacqueline Bloemhof, Albert van der Padt

### ■ MB-55

Monday, 10:30-12:00 - 4D UPV 2.1

#### Measuring Impact of OR projects...and Beyond!

Stream: Making an Impact I

Chair: Matteo Pozzi

1 - Measuring impact of OR projects...and beyond!

Matteo Pozzi

#### ■ MB-56

Monday, 10:30-12:00 - 4D UPV 2.2

### Optimization in Renewable Energy Systems I

Stream: Optimization in Renewable Energy Systems Chair: Adelaide Cerveira

1 - Techno-economic and environmental efficiency in electricity generation in Latin America: a dual DEA approach

Felipe Henao, Julián Benavides, Juan Pablo Viteri

2 - The net demand methodology applied to wind power generation series in a long-term energy planning context

Fernando Luiz Cyrino Oliveira, Paula Maçaira, Yasmin Cyrillo, Reinaldo Souza, Gustavo Amador

3 - Energy markets: methods for optimization of transport infrastructure

Olesya Grigoreva, Alexander Vasin

4 - Optimizing the design of wind farms with ditch shar-

Adelaide Cerveira, Amaro de Sousa, Eduardo Pires, José Baptista

### ■ MB-57

Monday, 10:30-12:00 - 4D UPV 2.3

#### Algorithms for Sequencing

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Aleksandra Swiercz

1 - Combinatorial models for biomolecule structure alignment

Piotr Lukasiak

2 - Operator assignment in parallel assembly cells with cell loading and product sequencing

Yiyo Kuo, Yen-Po Chen, Yu Cheng Wang

- 3 New validation methods for complex biological systems analysis based on time-dependent Petri nets Jakub Olszak, Marcin Radom, Piotr Formanowicz
- 4 An OLC approach to De Novo assembly GRASShop-PER assembler

Aleksandra Swiercz, Wojciech Frohmberg, Michal Kierzynka, Pawel Wojciechowski, Piotr Zurkowski, Jan Badura, Artur Laskowski, Marta Kasprzak, Jacek Blazewicz

#### **■ MB-58**

Monday, 10:30-12:00 - 4D UPV 2.4

# **OR in Regular Study Programs**

Stream: OR Education Chair: Gerhard-Wilhelm Weber

 Econometric modeling of the determinants of academic achievement of students of a university in Chile

Hanns de la Fuente-Mella, Laura Villalón

2 - Language at home and student math performance in tertiary education: evidence from a German case study

Nora Dörmann, Horst Entorf

3 - Voice recognition algorithm applied to processes of authentication in distance education

Guadalupe Pascal, Julián E. Tornillo, Oscar M. Pascal, Javier M. Moguerza, Andrés Redchuk

4 - Master's degree program on game theory and operations research

Yaroslavna Pankratova, Leon Petrosyan, Elena Gubar

#### ■ MB-59

Monday, 10:30-12:00 - 4D UPV 2.5

# OR Advances in Agri-Food Systems

Stream: OR Advances in Agribusiness

Chair: Jorge E. Hernández Chair: Leandro Antonelli

 1 - A decision support model integrating quality data in fresh food supply chains

Magdalena Leithner, Christian Fikar

2 - How to support decision making processes in agribusiness through the GRUS system

Pascale Zaraté, Amir Sakka

3 - The use of glossaries to define consistent models on agricultural contexts

Leandro Antonelli, Alejandro Fernández, Jorge E. Hernández

#### 4 - Mathematical models of food security

Natalia Meshcheryakova, Fuad Aleskerov, Sergey Shvydun

#### **■ MB-60**

Monday, 10:30-12:00 - 4D UPV B.5

#### Meet the editors ITOR

Stream: EURO Special Sessions

Chair: Celso Ribeiro

1 - Meet the Editors - International Transactions in Operational Research (ITOR)

Celso Ribeiro, Kenneth Sörensen, Luk Van Wassenhove, M. Grazia Speranza

# Monday, 12:30-14:00

#### ■ MC-01

Monday, 12:30-14:00 - UPV Nexus

# Systems Modeling Impacting Policy: The Role Of Group Model Building In Cambodia

Stream: Keynotes Chair: Christos Vasilakis

1 - Systems Modeling Impacting Policy: The Role Of Group Model Building In Cambodia

David Matchar

#### **■ MC-02**

Monday, 12:30-14:00 - SOUTH BUILDING UV S101

#### Manufacturing Scheduling

Stream: Scheduling Practice Chair: Francesco Aggogeri

- 1 A deep learning approach for dispatching problems in large flexible manufacturing systems Cheng-Hung Wu, Fang-Yi Zhou, Cheng-Juei Yu
- 2 Scheduling jobs to minimize makespan in a multiple product permutation flow shop with intermingling and learning effects

Şeyda Ilgaz, Gultekin Kuyzu, Salih Tekin

3 - A multi-objective invasive weed optimization algorithm for a tri-objective dual-resource constrained flexible job shop scheduling problem

Shima Javanmard, Sasan Barak, Seyed Taghi Akhavan Niaki

 4 - Prognostics based robust design to strengthen mechanical system functionalities

Francesco Aggogeri, Angelo Merlo, István Németh, Nicola Pellegrini, Alberto Borboni, Amit Eytan, Claudio Taesi

# ■ MC-03

Monday, 12:30-14:00 - SOUTH BUILDING UV S103

#### **Hub Location**

Stream: Location Analysis and Optimization Chair: Gabriel Luque

 A p-hub covering location problem with elastic demand

Armin Lüer-Villagra, Víctor Larrea-Chiriboga, German Paredes-Belmar, Vladimir Marianov

2 - A bilevel dynamic maximal hub location problem for freight transportation

Roghayyeh Alizadeh, Tatsushi Nishi

3 - A new mathematical model for multiple allocation tree-of-hubs location problem

Betul Kayisoglu, İbrahim Akgün

4 - Anytime algorithms for multi-objective hub location problems

Gabriel Luque, Enrique Dominguez, Francisco Chicano, Ana Belen Ruiz

#### ■ MC-04

Monday, 12:30-14:00 - SOUTH BUILDING UV S104

# Dynamic and Stochastic Scheduling in Production

Stream: Dynamic and Stochastic Scheduling Chair: Alejandro Arbelaez

1 - Stochastic scheduling of parallel machines under processing time variability

İbrahim Akgün, Selçuk Gören, Rahime Şeyma Bekli, Muhammed Sutcu

- 2 DQN-based dispatching method for unmanned production line composed of multiple CNC machines Kyuchang Chang, Jun-Geol Baek
- 3 Multi-objective optimization of job shop scheduling with risk of stablity

  Shudong Sun
- 4 Online scheduling of combinatorial problems Alejandro Arbelaez, Robinson Duque, Juan F. Diaz

#### ■ MC-05

Monday, 12:30-14:00 - SOUTH BUILDING UV S105

# Heuristics for Salesman and Postman Problems

Stream: Vehicle Routing and Logistics Optimization I Chair: Miguel Reula Martín

 1 - A variable neighborhood search with tabu conditions for the roaming salesman problem

Masoud Shahmanzari, Deniz Aksen

2 - Picker routing in AGV-assisted order picking systems

Maximilian Löffler, Nils Boysen, Christoph Glock, Michael Schneider

 A solution method for the traveling salesman problem (TSP) using five sequential deterministic heuristic algorithms

Luis Moreno, Javier Diaz, Julian Gonzalez

4 - A heuristic algorithm for the distance-constrained generalized directed rural postman problem

Miguel Reula Martín, Angel Corberan, Jose Maria Sanchis, Isaac Plana

#### **■** MC-06

Monday, 12:30-14:00 - SOUTH BUILDING UV S106

#### Consumer Behavior and Pricing II

Stream: Demand and Supply Management in Retail and Consumer Goods

Chair: Winfried Steiner

- Dynamic pricing strategies for perishable products Cansu Altintas, Shaunak Dabadghao, Zumbul Atan, Tarkan Tan
- 2 Influencing consumer shopping behavior by expiration date based pricing of fresh products

  \*René Haijema\*
- 3 The effects of a promotion on store traffic, conversion, and consumer expenditures: evaluation with a prediction approach

Leonardo Epstein, Ignacio Inostroza-Quezada

4 - A data mining approach to predict e-commerce customer behavior

Ebru Dilara Arslan, Büşra Altunan, Merve Seyis, Merve Birer, Fadime Üney-Yüksektepe

#### ■ MC-07

Monday, 12:30-14:00 - SOUTH BUILDING UV S107

# **Analytic Hierarchy Process III**

Stream: Analytic Hierarchy Process / Analytic Network

Process Chair: Petr Fiala

Sustainable fixed capital's budget allocation by applying the P&S method

Majid FathiZahraei, Abolfazl Yari, Azita Asadi

2 - Determination of electric bus technology to improve the public transportation using AHP-TOPSIS methods

Mustafa Hamurcu, Tamer Eren

 3 - Selection of gas mask using an integrated intuitionistic fuzzy AHP and TOPSIS (IF-AHP&TOPSIS) method: a case study

Elif Kilic Delice, Tuba Adar

4 - Dynamic supply network analysis by DEMATEL and ANP

Petr Fiala

#### **■ MC-08**

Monday, 12:30-14:00 - SOUTH BUILDING UV S108

#### **Optimal Location Problems**

Stream: Combinatorial Optimization I

Chair: Ivana Ljubic

1 - An exact algorithm for the perfect edge domination problem

. Abilio Lucena

**2 - Cost and fairness optimization in facility location** *Carlo Filippi, Gianfranco Guastaroba, M. Grazia Speranza* 

3 - Benders decomposition for covering location prob-

Ivana Ljubic, Jean-François Cordeau, Fabio Furini

#### **■ MC-09**

Monday, 12:30-14:00 - SOUTH BUILDING UV S109

# The Role of Mathematical Optimization in Data Science III

Stream: European Working Group: Data Science

Meets Optimization Chair: *Philipp Baumann* 

1 - An optimization model for credit score based offer management in telecommunication sector Ayse Seda Yavuz, Erinc Albey

2 - A matheuristic for binary classification of data sets using hyperboxes

Derya Akbulut, Cem Iyigün, Nur Evin Ozdemirel

- 3 Particle swarm optimization based regression Donghee Yoon, SeJoon Park, Nagyoon Song, Suemin Kim, Dohyun (Norman) Kim
- 4 Scaling up similarity-based machine learning models: new geometric algorithms for sparse computation

Philipp Baumann, Dorit Hochbaum, Quico Spaen

#### **■** MC-10

Monday, 12:30-14:00 - SOUTH BUILDING UV S110

# **Decision Aiding Methods III**

Stream: Multiple Criteria Decision Aiding

Chair: Salvatore Corrente Chair: Milosz Kadzinski

 Ranking sensitivity-based importance measures in multi-outputs models

Claudio Miguel Rocco

2 - Value-focused thinking and multi-criteria group decision making for systematically valuing the energy transition

Tim Hoefer, Rüdiger von Nitzsch, Reinhard Madlener

3 - A study on the anonymity of individual preferences in group decision making

Matteo Brunelli

4 - Multiobjective models for planning problems

Maria Barbati, Salvatore Corrente, Salvatore Greco

#### ■ MC-11

Monday, 12:30-14:00 - SOUTH BUILDING UV S111

#### DEA Theory II

Stream: DEA: Theory Chair: Wen-Chih Chen

1 - Efficiency and performance assessment in DEA technique with time series data

Zohreh Moghaddas, Mohsen Vaez-Ghasemi

- 2 Competitive pricing using efficient frontier Alireza Davoodi
- 3 A novel two-stage double bootstrapped I-distance global assurance region DEA model

Milan Radojicic, Gordana Savic, Veljko Jeremic

4 - DEA performance evaluation with a dual-role factor Wen-Chih Chen

#### ■ MC-12

Monday, 12:30-14:00 - SOUTH BUILDING UV S112

# Fuzzy Optimization II

Stream: Fuzzy Optimization Chair: Manuel Díaz-Madroñero

1 - Divergence measures under imprecision Susana Montes, Ignacio Montes, Ángel Riesgo

2 - Mathematical properties and possible applications of **IFS-IBA** approach

Pavle Milosevic, Aleksandar Rakicevic, Ana Poledica, Bratislav Petrovic

3 - Computational methods for constructing a group ranking from uncertain data

María Luisa Martínez, Esther Dopazo, Mauricio Ruiz-Tagle

4 - Reducing costs by using fuzzy techniques in inventory management

Ester Guijarro, Eugenia Babiloni, Maria J. Canos, Lourdes Canos, Vicente Liern

#### ■ MC-13

Monday, 12:30-14:00 - SOUTH BUILDING UV S201

### Supply Chain Management III

Stream: Supply Chain Management II Chair: Ileana Perez

1 - Competitive and cooperative decisions in distribution network

Natalia Nikolchenko, Nikolay Zenkevich

2 - How should your supply chain adjust with product innovation?

Mojtaba Mahdavi, Tava Olsen

3 - Modeling and simulation of supply chains with different risk attitudes from participants by using Petri

Biljana Panić, Dragana Makajic-Nikolic, Maja Hadziahmetović, Mirko Vujosevic

4 - Improving decisions in inventory management: a solution supported by teamwork- ABC-AHP

Ileana Perez, Julian Arias, Daniela Gallego, Rocio Poveda-Bautista

#### ■ MC-14

Monday, 12:30-14:00 - SOUTH BUILDING UV S202

#### Fixed Point Algorithms in Optimisation II

Stream: Nonlinear Programming: Methods

Chair: Matthew Tam

1 - An enhanced formulation for successfully solving graph coloring problems with the Douglas-Rachford algorithm

Francisco Javier Aragón Artacho

2 - Fixed point iterations in the context of nonnegative matrix factorization

Patrick Groetzner

3 - The steepest descent method for computing Riemannian center of mass on Hadamard manifolds João Carlos Souza, Glaydston de Carvalho Bento, Sandro Dimy Barbosa Bitar, João Xavier da Cruz Neto, Paulo Oliveira

4 - Union nonexpansive operators and applications Matthew Tam

#### ■ MC-15

Monday, 12:30-14:00 - SOUTH BUILDING UV S203

# New Trends in Shared-connected and **Low-emission Human and Freight** Transportation Systems II

Stream: Vehicle Routing and Logistics Optimization II

Chair: Francesca Guerriero Chair: Luigi Di Puglia Pugliese Chair: Giusy Macrina

1 - Optimizing vehicle relocations in one-way electric carsharing systems

Maurizio Bruglieri, Fabrizio Marinelli, Ornella Pisacane

- 2 Impact of battery state of charge on cost optimal routes for hybrid and plug-in electric vehicles Simgenil Arslan, Orkun Karabasoglu
- 3 An exact approach for routing a fleet of green vehicles with capacitated fuel stations

Simona Mancini, Maurizio Bruglieri, Ornella Pisacane

4 - A column generation approach for an emission minimizing vehicle routing problem

Martin Behnke

#### ■ MC-16

Monday, 12:30-14:00 - SOUTH BUILDING UV S115

#### **Network Optimization**

Stream: Network Optimization and Social Networks

Chair: Markus Leitner

Efficient algorithms for the budget-constrained minimum cost flow problem

Clemens Thielen, Michael Holzhauser, Sven Krumke

2 - Benders cut-and-solve: a versatile tool for network optimization

Carlos Zetina, Ivan Contreras, Jean-François Cordeau

3 - An exact resolution method based on adaptive partitions for the stochastic fixed charge multicommodity flow problem

Cristian David Ramirez Pico, Eduardo Moreno

4 - Variables aggregation and Benders decomposition for solving large-scale extended formulations

Markus Leitner, Bernard Fortz

#### ■ MC-17

Monday, 12:30-14:00 - SOUTH BUILDING UV S205

# Stochastic Optimization Problems - Theory and Applications

Stream: Stochastic and Robust Optimization Chair: *Milos Kopa* 

1 - Multistage multivariate nested distance: an empirical analysis

Sebastiano Vitali, Milos Kopa, Vittorio Moriggia

2 - Dynamic model of market with uninformed market maker

Martin Smid, Milos Kopa

3 - Pharmaceutical R&D pipeline management under uncertainty

Elvan Gokalp, Juergen Branke

4 - Stochastic optimization with endogenous randomness - contamination techniques

Milos Kopa

#### **■ MC-18**

Monday, 12:30-14:00 - SOUTH BUILDING UV S206

# Theoretical Investigations in Convex Optimization

Stream: Convex Optimization

Chair: Attila Gilanyi

- 1 Cyclically antimonotone vector equilibrium problems Mihaela Berchesan(Miholca)
- 2 generalized derivatives of the optimal value of a linear program with respect to matrix coefficients

  Daniel De Wolf
- 3 Bilinear programming: a robust optimization perspective

Ahmadreza Marandi, Jianzhe Zhen, Dick den Hertog, Lieven Vandenberghe

4 - Bernstein-Doetsch type theorems for set-valued functions

Attila Gilanyi, Carlos Gonzalez, Kazimierz Nikodem, Zsolt Pales

#### **■** MC-19

Monday, 12:30-14:00 - SOUTH BUILDING UV S207

#### **Vector and Set-Valued Optimization III**

Stream: Vector- and Set-Valued Optimization Chair: Marius Durea

- 1 Necessary conditions in set optimization Truong Q. Bao
- 2 On the stability of the directional regularity
  Marian Dumitru Pantiruc
- Henig efficiency in vector optimization problems with variable ordering structure

Elena-Andreea Florea, Marius Durea, Radu Strugariu

 4 - Optimality conditions and a barrier method in convex optimization without convex representation Marius Durea

#### ■ MC-20

Monday, 12:30-14:00 - SOUTH BUILDING UV S301

# Advances in Modeling Uncertainty and Incomplete Preference Information

Stream: Decision Analysis and Decision Support Systems

Chair: Eeva Vilkkumaa

- 1 Preferences in spatial decision making Jay Simon, L. Robin Keller
- 2 Spatial multi-attribute decision analysis: axiomatic foundations and incomplete preference information Juuso Liesiö, Mikko Harju, Kai Virtanen
- 3 A portfolio approach for optimizing safety measures in dynamic Bayesian networks

Alessandro Mancuso, Michele Compare, Ahti Salo, Enrico Zio

4 - Scenario-based multicriteria portfolio model for building a robust and proactive strategy Eeva Vilkkumaa, Petri Rikkinen, Juuso Liesiö

#### ■ MC-21

Monday, 12:30-14:00 - SOUTH BUILDING UV S303

# Workforce Scheduling and Line Balancing II

Stream: Project Management and Scheduling

Chair: Evgeny Gurevsky

1 - A new mathematical formulation with search-space reduction techniques for the multi-manned assembly line balancing problem

Adalberto Sato Michels, Thiago Cantos Lopes, Celso Gustavo Stall Sikora, Leandro Magatão

2 - Supplying assembly lines: a case study

Aida Saez-Mas, Angel Ruiz, José P. Garcia-Sabater, Julio J. Garcia-Sabater

- 3 Mixed model sequencing in two-sided assembly lines Mary Kurz, Anas Al-Ghazi
- 4 Optimality-based cuts generation for robust balancing of paced production lines with blocks of uncertain parallel tasks and space restrictions

Aleksandr Pirogov, Evgeny Gurevsky, André Rossi, Alexandre Dolgui

#### ■ MC-22

Monday, 12:30-14:00 - SOUTH BUILDING UV S304

# Efficient Algorithms for Optimization Problems

Stream: Multiobjective Optimization

Chair: Pascal Halffmann

Scalarization in vector optimization with arbitrary domination sets

Petra Weidner

2 - Column generation in biobjective linear program-

Andrea Raith, Siamak Moradi, Matthias Ehrgott

- 3 The job sequencing and tool switches problem: properties of its solution and bounds

  Horacio Yanasse
- 4 Can we approximate a weight set decomposition? Pascal Halffmann, Stefan Ruzika

#### **■ MC-23**

Monday, 12:30-14:00 - SOUTH BUILDING UV S305

#### Shift and Task Scheduling

Stream: Timetabling Chair: Ferdinand Becker

- 1 A column generation approach for the shift design and rostering problem in airport ground handling Joost van Twist, Murat Firat, Cor Hurkens
- 2 A rough set approach to the multinational chain multi-skilled staff scheduling problem with supporting cooperation

Teng-Sheng Su

3 - Staff rostering for check-in counters with both period-based and task-based demands

Lishun Zeng, Mingyu Zhao, Shuai Tian

4 - Planning cross-docking operations - integrating truck and workforce scheduling

Ferdinand Becker, Hagen Salewski, Hans Corsten

#### **■** MC-24

Monday, 12:30-14:00 - SOUTH BUILDING UV S306

#### **Financial Mathematics and OR III**

Stream: Financial Mathematics and OR

Chair: Masanori Ozawa

- 1 High frequency sampling and international continuous-time stochastic processes A. Can Inci
- 2 CPPI-STAR: triggered insurance portfolio strategies with time varying multiples based on regime switching asset dynamics

Jean-Luc Prigent, Hachmi Ben Ameur, Fredj Jawadi, Farid Mkaouar

3 - Exploring negative variance in logistics cost for FMCG e-tailer in India

Nilanjan Chattopadhyay

 4 - A risk evaluation of the Japanese public pension and the long-term personal pension

Masanori Ozawa, Michael Krause

#### **■** MC-25

Monday, 12:30-14:00 - SOUTH BUILDING UV S307

# **Model-based Decision Support**

Stream: Combinatorial Optimization II

Chair: Jan van Vuuren

1 - Simulating the movement of forcibly displaced Syrians using agent-based modelling

Christa de Kock, Brian van Vuuren, Sara S Grobbelaar

2 - Planning model of machinists' work in passenger trains

Izabela Dziaduch, Pawel Hanczar

3 - An exact tree search algorithm for the hot sheet stacking problem

Philipp Fath, David Sayah, Stefan Nickel

4 - Model-based decision support for subjective preference selection

Johan Kellermann, Jan van Vuuren

#### **■** MC-26

Monday, 12:30-14:00 - SOUTH BUILDING UV S308

# Network Design and Equilibrium Concepts in Transportation and Location

Stream: Public Transportation I

Chair: Claus Gwiggner

- 1 Public network design with analytical Benders cuts Arthur Mahéo, Robin Pearce, Michael Forbes
- 2 Route planning for fixed route transit by maximizing OD flow capture

Daisuke Hasegawa, Tsutomu Suzuki

- 3 Modelling inbound demand and congestion with Poisson and pre-scheduled random arrivals Carlo Lancia
- 4 Descriptive analysis of sequential location games Claus Gwiggner

#### **■** MC-27

Monday, 12:30-14:00 - SOUTH BUILDING UV S309

### **Simulation Models**

Stream: Production, Service and Supply Chain Management

Chair: Dimitris Zissis

1 - Towards quantitative risk evaluation for supply chains

Birgit Mösl, Dietmar Neubacher, Nikolaus Furian

2 - Simulating storage policies for an automated gridbased warehouse system

Michaela Wissing, Kevin Tierney, Christoph Weskamp

- 3 A hybrid simulation based approach to optimize organizational structures of maintenance operations
  - Nikolaus Furian, Dietmar Neubacher, Clemens Gutschi

4 - Coordination in decentralized models through multistage games

Dimitris Zissis, Panagiotis Kyriazis, George Ioannou, Apostolos Burnetas

#### **■ MC-28**

Monday, 12:30-14:00 - SOUTH BUILDING UV S310

# Multiple Classifier Systems and Applications II

Stream: Multiple Classifier Systems and Applications Chair: Koen W. De Bock

- 1 Unsupervised feature selection for autoencoder Suemin Kim, Donghee Yoon, Dohyun (Norman) Kim
- 2 Segmentation of media users according to life value Kuratomo Oyo, Takako Yamada, Hiroaki Sandoh
- 3 Automatic forecasting support system for business analytics applications based on unobserved components models

Diego José Pedregal Tercero, Marco Antonio Villegas García, Diego Villegas 4 - Measuring customer lifetime value with a zeroinflated inverse Gaussian model

Mee Chi (Meko) So, Christine Currie, Christopher Bayliss

#### **■ MC-29**

Monday, 12:30-14:00 - SOUTH BUILDING UV S311

### Game Theoretical Models and Applications I

Stream: Game Theory, Solutions and Structures Chair: Joaquin Sánchez-Soriano

 Measurement of indirect control in corporate shareholding structures

Izabella Stach, Cesarino Bertini, Gianfranco Gambarelli, Jacek Mercik

2 - The pairwise egalitarian contribution set for multichoice transportation games

Natividad Llorca, Mariana Rodica Branzei, Elisabeth Gutierrez, Joaquin Sánchez-Soriano

- 3 Tax federalism and cooperative games Emilio Calvo
- 4 Profit allocation in transportation systems under bounded rationality

Joaquin Sánchez-Soriano, Natividad Llorca

#### **■ MC-30**

Monday, 12:30-14:00 - SOUTH BUILDING UV S312

# Neighbourhood search

Stream: Metaheuristics Chair: Adolfo Urrutia Zambrana

1 - A biased-randomized iterative variable neighborhood descent to solve the integrated hybrid flowshop and vehicle routing problem

Leandro Martins, Sara Hatami, Eliana Maria Gonzalez-Neira, Angel A. Juan, Jairo R. Montoya-Torres

2 - Consistent neighborhood search for twodimensional vector packing

Mirsad Buljubasic, Michel Vasquez

 Large neighborhood search algorithm for buffer allocation problem

Mehmet Ulaş KoyuncuoĞlu, Leyla Demir

 4 - On the tourist itinerary creation: a variable neighborhood search for solving the generalized orienteering problem

Adolfo Urrutia Zambrana, Gregorio Tirado, Alfonso Mateos

#### ■ MC-31

Monday, 12:30-14:00 - SOUTH BUILDING UV S313

#### **Descriptive Studies of Decision Making**

Stream: Behavioural OR Chair: Konstantinos Katsikopoulos 1 - The use of round numbers in preference representa-

Ewa Roszkowska, Gregory Kersten, Tomasz Wachowicz

2 - Simple methods of portfolio decision making: what do we lose and what do we gain?

Ian Durbach

3 - The attention economy of online search: a natural experiment

Shashwat Pande, Christopher Holland, Konstantinia Papamichail, Peter Kawalek

4 - One-reason decision making!?

Konstantinos Katsikopoulos, Ozgur Simsek, Jan Malte Lichtenberg, Gregory Wheeler

#### **■** MC-32

Monday, 12:30-14:00 - SOUTH BUILDING UV S314

# **Maritime Transportation**

Stream: Routing, Logistics, Location and Transporta-

tion

Chair: Anisa Rizvanolli

1 - The traffic assignment problem (TAP) on lattice and circular network geometries

Sam O'Neill, Ovidiu Bagdasar, Stuart Berry, Nicolae Popovici

2 - Uncertainty in maritime inventory routing problem: comparing approaches

Filipe Rodrigues

3 - Strategic planning of dry port-based distribution systems

Jenn-Rong Lin, Andrew Andrew, Emrah Demir, Anthony Beresford

4 - Vessel crew scheduling in ship management: a modelling approach

Anisa Rizvanolli, Ole John

### **■** MC-33

Monday, 12:30-14:00 - SOUTH BUILDING UV S315

# **Data Mining and Statistics II**

Stream: Data Mining and Statistics

Chair: Kemal Özkan

 Comparison of machine learning classification algorithms performances in consumer credit-risk scoring Mervan Aksu

2 - Data analytics for value determination: an application on data for aircraft spare parts

Clemens Wickboldt, Natalia Kliewer, Natalia Kliewer

3 - Dependence-biased conditional permutation importance for variable selection

Gianluca Gazzola, Myong-Kee Jeong

4 - Optimized parameters for bell-shaped error function in recommender system

Kemal Özkan, Seke Érol, Yusuf Kartal, Tolga Ünal, Mahmut Kasap

#### ■ MC-34

Monday, 12:30-14:00 - SOUTH BUILDING UV S113

# Numerical and Simulation Methods in Finance I

Stream: Numerical and Simulation Methods in Finance Chair: Gordon Dash

- 1 Practical considerations for credit price optimisation Marius Smuts, Fanie (SE) Terblanche
- 2 Forecasting crude oil futures prices using global macroeconomic news sentiment

Paresh Date, Zryan Sadik, Gautam Mitra

3 - Hedging home price risks William Mingyan Cheung, Li Bao, Stephan Unger

4 - Modeling statewide 2018 tax-induced regime shifts through artificial intelligence and big data analytics Nina Kajiji, Gordon Dash, Domenic Vonella

#### **■ MC-48**

Monday, 12:30-14:00 - 4D UPV B.3

# Practice-Based Research in Humanitarian Logistics

Stream: Humanitarian Operations

Chair: Harwin De Vries

1 - Donation management for menu planning at soup kitchens

Marjolein Buisman, René Haijema, Renzo Akkerman, Jacqueline Bloemhof

2 - Location planning and inventory management of emergency medical centers for post-disaster

Mehmet Kursat Oksuz, Sule Itir Satoglu

- 3 Design of water supply networks and source selection for slums by using mixed-integer programming

  Lea Rausch, John Friesen, Peter Pelz
- 4 Do optimization models for humanitarian operations need a paradigm shift? The case of evidence-based vehicle planning

Harwin De Vries, Luk Van Wassenhove

#### **■** MC-49

Monday, 12:30-14:00 - 4D UPV B.4

#### Moments in History of OR

Stream: Moments in History of OR

Chair: Graham Rand

Chair: Gerhard-Wilhelm Weber

1 - La Nova Scientia: rewriting the history of operational research

Roberto Rossi

2 - Design of decision support systems for large infrastructure projects: a review

Carolina Toczycka

3 - Sixty years of European OR conferences: a UK perspective

Graham Rand

#### ■ MC-50

Monday, 12:30-14:00 - 4D UPV 1.1

### **OR for Developing Countries II**

Stream: OR for Developing Countries

Chair: Herman Mawengkang

 An optimization model for planning and scheduling of seafood product with quality traceability in Aceh province of Indonesia

Devy Mathelinea, Herman Mawengkang

2 - An integer optimization model for managing industries hazardous waste disposal

Avery Boy Detinty, Herman Mawengkang

3 - A combined approach for solving a scheduling problem in periodic heterogeneous vehicle routing problems

Ellis Mardiana Panggabean, Herman Mawengkang

4 - An optimal decision model for hospital capacity management planning problem

Suryati Sitepu, Herman Mawengkang

#### **■** MC-51

Monday, 12:30-14:00 - 4D UPV 1.2

#### **Circular Supply Chains**

Stream: Environmental Sustainability in Supply Chains Chair: Gerald Reiner

1 - Sustainable sourcing with recycled materials: a contribution towards circular economy

Patricia Rogetzer, Lena Silbermayr, Werner Jammernegg

2 - Responsible supply chain decision making considering circularity

Boualem Rabta, Gerald Reiner

3 - When remanufacturing meets product quality improvement: the impact of production cost

. Weihua Zhang, Gendao Li, Marc Reimann 4 - Transition to circular supply chains induced by new business models

Gerald Reiner, Stefan Gold, Boualem Rabta, Tanja Olip

#### **■** MC-52

Monday, 12:30-14:00 - 4D UPV 1.3

### Health Care Modelling (ORAHS) II

Stream: OR for Health and Care I

Chair: Kursad Bilgili

1 - Analytics in prioritizing access to hepatitis C treatment in U.S. prisons

Turgay Ayer

- 2 Using simulation modelling for evaluating a national colorectal cancer screening programme in Chile Richard Guerrero-Ludueña
- 3 Foodborne transmission mechanisms for norovirus: a study for the UK's food standards agency
  David Lane, Elke Husemann, Darren Holland, Abdul Khaled
- 4 A simulation based decision support toolkit for informing the management of patients with diabetes Kursad Bilgili, Eren Demir, Reda Lebcir, Anne Kilvert, Jonathan Rippen, Eileen Richardson

#### **■ MC-53**

Monday, 12:30-14:00 - 4D UPV 1.4

# **Demand and Supply Management**

Stream: Operations/Marketing Interface

Chair: Yongbo Xiao

- 1 Push, pull, and supply chain risk averse attitude Jian Chen
- 2 Quality information disclosure strategies in a supply chain with duopoly retailers

Xiaosong Ding, Jihong Zhang, Jianbo Xu

- 3 A new framework for naval inventory models Javier Salmeron, Duncan Ellis
- 4 Dynamic pricing in a trade-in program with replacement and new customers

Yongbo Xiao, Jian Chen

#### ■ MC-54

Monday, 12:30-14:00 - 4D UPV 1.6

#### **Business Models, Policies and Customers**

Stream: Energy Economics, Environmental Management and Multicriteria Decision Making

Chair: Davide Vurchio

1 - Environmental performance of servicizing and selling business models

Mehmet Ali Kanatlı, Ozgen Karaer

2 - An approach for understanding residential electricity consumption

Gulcan Petricli, Gül Gökay Emel

3 - A CSR innovation research based on design thinking methodology: insight from material topic identification process

Pin-Rui Hwang

4 - Energy use, productivity and exporting: a firm level analysis for developing countries

Davide Vurchio, Pierluigi Montalbano, Silvia Nenci

### **■** MC-55

Monday, 12:30-14:00 - 4D UPV 2.1

# Fast and Furious: Lightning Talks on **Applied OR**

Stream: Making an Impact I

Chair: Ruth Kaufman

1 - Fast and furious: lightning talks

Ruth Kaufman

#### ■ MC-56

Monday, 12:30-14:00 - 4D UPV 2.2

### Optimization in Renewable Energy Systems II

Stream: Optimization in Renewable Energy Systems Chair: Ida Græsted Jensen

1 - Use of image analysis methods to determine the chlorine content of refuse derived fuel

Aysun Özkan, Kemal Özkan, Şahin Işık, Zerrin Günkaya, Miifide Banar

2 - Wind turbine power forecasting by LSTM recurrent neural networks using CNTK platform

Serap Ulusam Seckiner, Muhammet Zara, Yunus Eroglu

3 - A simplistic method for representing renewable gasses and fuels in an energy systems optimisation model

Ida Græsted Jensen, Frauke Wiese, Rasmus Bramstoft

#### ■ MC-57

Monday, 12:30-14:00 - 4D UPV 2.3

# Algorithms for Structure

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Joanna Miskiewicz

- 1 Conflict graphs in pseudoknot modelling Marta Szachniuk, Tomasz Żok, Kacper Figurski, Mariusz Popenda
- 2 Discovery and characterization of cryptochrome destabilizer small molecules enhancing the apopto-

Seref Gul, Mehmet Tardu, Halil Kavakli, Metin Turkay

3 - N-way junction modeling and analysis

Jakub Wiedemann, Maciej Miłostan, Marta Szachniuk, Ryszard Adamiak

4 - Computational analysis and visualization of Gquadruplex structures

. Joanna Miskiewicz, Mariusz Popenda, Joanna Sarzynska, Maciej Antczak, Tomasz Żok, Marta Szachniuk

#### ■ MC-58

Monday, 12:30-14:00 - 4D UPV 2.4

#### Teaching OR/MS I

Stream: OR Education Chair: Pedro Castellucci

1 - MODGRAF: a tool to support teaching network problems

Mariusz Kaleta

2 - Sharing experiences of designing and teaching quantitative methods online

Mahmut Sonmez

3 - Mobile learning as strategy for teaching OR

Laura Plazola Zamora, Sara Marín, Alejandra Gomez Padilla

4 - Teaching how to model

Pedro Castellucci, Alysson Costa

#### **■ MC-59**

Monday, 12:30-14:00 - 4D UPV 2.5

# Risk and Uncertainty in Agri-Food **Systems**

Stream: OR Advances in Agribusiness

Chair: Jorge E. Hernández Chair: Leandro Antonelli

1 - Modelling agri-food supply chain risks using total interpretive structural modelling and fuzzy MICMAC analysis

Guoqing Zhao, Shaofeng Liu

2 - Fuzzy model to increase vegetables quality with a collaboration program under uncertainty

Ana Esteso, Mareva Alemany, Angel Ortiz

3 - A new 0-1 mixed integer wheat supply network design model proposal that decreases the number of vehicle rounds

Abdullah Oktay Dündar, Mahmut Tekin, Kenan Peker, Mehmet Akif Sahman, Ismail Karaoglan

4 - Modelling spatially distributed refuge areas and sterile insect releases in a Bt sugarcane agroecosystem Dirk Human, Linke Potgieter

#### ■ MC-60

Monday, 12:30-14:00 - 4D UPV B.5

#### EURO Doctoral Dissertation Award I

Stream: EURO Special Sessions

Chair: Richard Hartl

1 - Computation of equilibria on integer programming games

Margarida Carvalho

2 - Large-scale network optimization: Steiner tree problems

Martin Luipersbeck

Logistics networks with intermediate stops - designing innovative and green solutions

Maximilian Schiffer

# Monday, 14:30-16:00

#### ■ MD-01

Monday, 14:30-16:00 - UPV Nexus

# Quantitative models embedded in decision-support tools for healthcare applications

Stream: Keynotes Chair: Sibel Salman

1 - Quantitative models embedded in decision-support tools for healthcare applications

Pinar Keskinocak

### **■** MD-02

Monday, 14:30-16:00 - SOUTH BUILDING UV S101

### **Industry 4.0 Production Planning**

Stream: Scheduling Practice

Chair: Maria Mavri

1 - Qualitative assessment of the influence of manufacturing complexity drivers onto production planning problems in the context of Industrie 4.0
 Dennis Horstkemper, Bernd Hellingrath

2 - Modeling and simulation of a production system with an Industry 4.0 approach, as a new learning environment through the use of virtual tools

Luis Omar Alpala, David Zambrano, Dayana Vallejo, Luis Vallejo

3 - Future research areas for supply chain management containing blockchain technology

Emine Bozoklar, Ebru Yılmaz

4 - Is it cheaper to print a good or to manufacture it using traditional techniques? Cost always makes matter

Maria Mavri, Evgenia Fronimaki

# **■** MD-03

Monday, 14:30-16:00 - SOUTH BUILDING UV S103

# Facility Location in Supply Chains I

Stream: Location Analysis and Optimization Chair: Abdullah Dasci

1 - Locating hydrogen refueling stations with a capacitated flow capturing location model

Kai Zhang, Yu Song

2 - A warehouse location-transportation model for pharmaceutical distribution planning

Eli Angela Vitor Toso, Aura Jalal

3 - A strategic model for location and route planning for a service parts distribution system

Ajinkya Tanksale, F. Tevhide Altekin, Abdullah Dasci, Hazal Ercan, Guvenc Sahin

4 - An iterative BTST method for the multi-Weber problem

Atsuo Suzuki

#### ■ MD-04

Monday, 14:30-16:00 - SOUTH BUILDING UV S104

# Corporate Finance and Portfolio Management

Stream: New Challenges in Investment Strategies,

Risk and Financial Modelling

Chair: Victor Dragota

 Portfolio selection under cumulative prospect theory with piecewise exponential value functions Suleyman Ozekici, Nuri Şensoy

2 - Optimal financing strategy when considering R&D innovation

Jiang Wang, Changchang Wu, Lihua Chen

- 3 A hybrid belief rule based decision support system for assessing credit risk for mortgage lending Swati Sachan, Jian-Bo Yang, Dong-Ling Xu
- 4 Dividend policy: estimating the duration of making systematically bad decisions

Victor Dragota, Camelia Delcea

#### ■ MD-05

Monday, 14:30-16:00 - SOUTH BUILDING UV S105

# **Exact Methods for Vehicle Routing Problems I**

Stream: Vehicle Routing and Logistics Optimization I Chair: Roberto Roberti

 1 - An exact algorithm for the static repositioning problem in bike sharing systems

Jose M. Belenguer, Enrique Benavent, Julio Daza Escorcia

2 - An exact method for the multi-trip VRP with time windows

Rosario Paradiso, Roberto Roberti, Demetrio Laganà, Wout Dullaert

3 - Decomposition algorithms for the multi-modal ridesharing routing problem

David Pisinger, Miriam Enzi, Sophie Parragh, Matthias Prandtstetter

4 - An exact method for the consistent vehicle-routing problem

Roberto Roberti, Dominik Goeke, Michael Schneider

#### ■ MD-06

Monday, 14:30-16:00 - SOUTH BUILDING UV S106

#### **Retail Distribution Planning I**

Stream: Demand and Supply Management in Retail

and Consumer Goods
Chair: Heinrich Kuhn

1 - Branch-and-cut and heuristic algorithms for an inventory routing problem with perishable products
Aldair Alvarez, Jean-François Cordeau, Raf Jans, Pedro
Munari, Reinaldo Morabito

- 2 Order policies for a perishable product in retail Karin G.J. Pauls-Worm, Eligius M.T. Hendrix
- 3 On the issuing rules and agreements in a divergent retail supply network to reduce the waste and increase the freshness of perishable products Rob Broekmeulen, Karel van Donselaar
- 4 Design challenges and performance analysis of the pick-support AGV system

Kaveh Azadeh, Debjit Roy, René de Koster

#### ■ MD-07

Monday, 14:30-16:00 - SOUTH BUILDING UV S107

# **Analytic Hierarchy Process IV**

Stream: Analytic Hierarchy Process / Analytic Network

Process

Chair: Jozsef Temesi

- 1 Preference elicitation from pairwise comparison matrices by evolutionary computing

  Ludmil Mikhailov
- 2 A study on the application of multi-criterion decision making with quantitative data to research and development budget process in Korea

  Yoon Been Lee
- 3 An MCDM-integrated maximum coverage approach for positioning of military surveillance systems Fatma Çarman, Ceren Tuncer Sakar
- 4 Correction of the elements of a pairwise comparison matrix: concepts and methods

  Jozsef Temesi

#### ■ MD-08

Monday, 14:30-16:00 - SOUTH BUILDING UV S108

#### Advances in Combinatorial Optimization

Stream: Combinatorial Optimization I

Chair: Silvano Martello Chair: Paolo Toth

1 - Longitudinal analysis of heuristic performance Steven Verwerft, Kenneth Sörensen 2 - Finding shortest pairs of paths with the fewest shared labels

Marta Pascoal, Joao Clímaco

3 - A mixed integer linear programming model for rolling stock rebalancing

Federico Farina, Dennis Huisman, Roberto Roberti, Shadi Sharif Azadeh

4 - A robust optimization approach for the cyclic job shop problem

Idir Hamaz, Laurent Houssin, Sonia Cafieri

#### ■ MD-09

Monday, 14:30-16:00 - SOUTH BUILDING UV S109

# The Role of Mathematical Optimization in Data Science IV

Stream: European Working Group: Data Science

Meets Optimization Chair: Vanesa Guerrero

1 - A branch-and-price approach to find optimal decision trees

Murat Firat, Guillaume Crognier, Adriana F. Gabor, Yingqian Zhang

- 2 Predicting review helpfulness: an open problem?

  Anne-Sophie Hoffait, Ashwin Ittoo
- 3 Interpretable deep learning models for financial applications

. Pavankumar Murali

4 - Optimized re-ranking approaches for a doctor recommender system

Hongxun Jiang

### ■ MD-10

Monday, 14:30-16:00 - SOUTH BUILDING UV S110

#### **Decision Aiding Methods IV**

Stream: Multiple Criteria Decision Aiding

Chair: Nelson Hein

1 - Paraconsistent logic in the economic-financial evaluation of Brazilian companies

Adriana Kroenke, Nelson Hein, Luana Sara Bizzato, Eliane Andrade

2 - Multi-criteria utility models with veto related preference structures - investigation of methods and properties

Andrej Bregar

3 - Assessing energy retrofit strategies for public buildings: an application of the ELECTRE-TRI nC model Marta Bottero, Giuseppina Ciulla, José Rui Figueira, Salvatore Greco, Grazia Napoli, Federico Dell'Anna 4 - Performance of Brazilian companies: an evaluation through moderate pessimism

Nelson Hein, Adriana Kroenke, Vinicius Jacintho

### ■ MD-11

Monday, 14:30-16:00 - SOUTH BUILDING UV S111

#### **DEA Theory III**

Stream: DEA: Theory Chair: Martina Kuncova

 1 - Perception-based evaluation of online ratings through uncertain decision intervals

Francisco Javier Santos Arteaga, Debora Di Caprio

2 - Sensitivity analysis and assurance region of efficiency in data envelopment analysis with integer inputs and outputs

Farhad Hosseinzadeh Lotfi, Mohammad Fallah, Alireza Amirteimoori, Mohsen Vaez-Ghasemi, Bijan Rahmani Parchikolaei, Mohammad Mehdi Hosseinzadeh, Somayeh Razipour-GhalehJough, Hamid Sharafi

3 - Multi-criteria comparison of travel agencies and tour operators in V4 countries

Martina Kuncova, Veronika Hedija

#### ■ MD-12

Monday, 14:30-16:00 - SOUTH BUILDING UV S112

# Non-Standard Optimization and Decision-Making Methods I

Stream: Fuzzy Optimization

Chair: Martin Gavalec

1 - Condition of order preservation in pairwise comparisons matrix with fuzzy elements

Jaroslav Ramik

2 - Some fuzzy location and connection models Karel Zimmermann, Martin Gavalec

- 3 On scale normalization in pairwise comparisons Jiri Mazurek
- 4 Coordination of fuzzy processes working in regular stages

Martin Gavalec, Daniela Ponce, Karel Zimmermann

#### ■ MD-13

Monday, 14:30-16:00 - SOUTH BUILDING UV S201

#### **Supply Chain Scheduling**

Stream: Supply Chain Management II

Chair: Lina Simeonova

 1 - Cuckoo search for integrating machine scheduling and vehicle routing

Ting-Jhao Jian, Bailu Fang, Gen-han Wu

2 - Definition of a new flow graph to model the constraints of a VRPPD in the RCPSPR

Marina Vinot, Philippe Lacomme

3 - Paint shop scheduling in the automotive supply industry

Felix Winter, Emir Demirović, Nysret Musliu, Christoph Mrkvicka

4 - An integrated mixed method approach for decision making in a multi-facility supply chain: a real life case from the UK steel industry

Lina Simeonova, Niaz Wassan, Said Salhi

#### ■ MD-14

Monday, 14:30-16:00 - SOUTH BUILDING UV S202

# Methods for Large-Scale Optimization Problems

Stream: Nonlinear Programming: Methods

Chair: Zaikun Zhang

- 1 A parallelizable algorithm for orthogonally constrained optimization problems Xin Liu
- 2 A Levenberg-Marquardt method for large nonlinear least-squares problems with dynamic accuracy in functions and gradients

Elisa Riccietti, Stefania Bellavia, Serge Gratton

3 - Accelerated Regularized Newton Methods for minimizing composite convex functions

Geovani Grapiglia, Yurii Nesterov

4 - A space transformation framework for nonlinear optimization

Zaikun Zhang, Serge Gratton, Luis Nunes Vicente

#### ■ MD-15

Monday, 14:30-16:00 - SOUTH BUILDING UV S203

# Recent Enhancements in Vehicle Routing

Stream: Vehicle Routing and Logistics Optimization II Chair: Luís Gouveia

1 - Determining the best changes in time windows for vehicle routing problems in a city area

Corrinne Luteyn, Pieter Vansteenwegen

2 - A practical pickup and delivery problem with transfers and time windows

Onur Can Saka, Sibel Salman

3 - The robust vehicle routing problem with time windows: compact model and branch-price-and-cut method

Pedro Munari, Alfredo Moreno, Jonathan De La Vega, Douglas Alem, Jacek Gondzio, Reinaldo Morabito 4 - A new formulation for the Hamiltonian p-median problem

Luís Gouveia, Tolga Bektas, Daniel Santos

### **■** MD-16

Monday, 14:30-16:00 - SOUTH BUILDING UV S115

#### **Robust Optimization**

Stream: Network Optimization and Social Networks Chair: Robert Manger

1 - Design of water usage and treatment networks: an adaptive discretization approach

Sascha Kuhnke, Arie Koster

2 - A robust optimization approach to solve the multihub express shipment service problem network design problem

Jose Miguel Quesada, Jean-Charles Lange, Jean-Sébastien Tancrez

- 3 Robust operational planning for mobile medical units Martin Comis, Christina Büsing
- 4 Algebraic formulation and solution of robust path problems

Robert Manger, Ana Klobučar

#### ■ MD-17

Monday, 14:30-16:00 - SOUTH BUILDING UV S205

# Stochastic Optimization in Energy and Environmental Management

Stream: Stochastic and Robust Optimization Chair: Patrick O'Driscoll

- 1 Meeting corporate renewable power targets Alessio Trivella, Danial Mohseni-Taheri, Selvaprabu Nadarajah
- 2 Multistage stochastic programs in waste management

Dusan Hrabec, Pavel Popela, Radovan Šomplák

3 - Optimizing environmental water release decisions in river systems

Simranjit Kaur, Avril Horne, Alysson Costa, Rory Nathan, Joanna Szemis

4 - A multi-period valuation of a topping oil refinery Patrick O'Driscoll

#### ■ MD-18

Monday, 14:30-16:00 - SOUTH BUILDING UV S206

#### Financial Modeling and Risk Management

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

Chair: Markku Kallio

 Mean-risk optimal portfolio in a behavioral framework

Cristinca Fulga

2 - Rational irrationality: how 'predictable' are investors during financial instabilities?

Mohammad Emambocus, Gurjeet Dhesi, Babar Syed

3 - Markowitz portfolio optimisation using homogeneous subsets

Elmira Mynbayeva, John Lamb

4 - Cooperative mitigation of contagion in financial networks

Markku Kallio, Aien Khabazian

#### ■ MD-19

Monday, 14:30-16:00 - SOUTH BUILDING UV S207

#### **Vector and Set-Valued Optimization IV**

Stream: Vector- and Set-Valued Optimization Chair: Marcin Studniarski

 Multiobjective approaches based on variable ordering structures for intensity problems in radiotherapy treatment

Thanh Tam Le

2 - Cooperative infrastructure and spectrum sharing in heterogeneous mobile networks

Mauro Passacantando, Lorela Cano, Antonio Capone, Giuliana Carello, Matteo Cesana

- 3 On approximate efficiency for nondifferentiable robust multiobjective optimization problems Tadeusz Antezak
- 4 Necessary and sufficient conditions for robust Qminimal solutions in uncertain vector optimization Marcin Studniarski, Anna Michalak

#### ■ MD-20

Monday, 14:30-16:00 - SOUTH BUILDING UV S301

# Decision Analytical Perspectives on Societal Challenges

Stream: Decision Analysis and Decision Support Sys-

tems

Chair: Juuso Liesiö

1 - Implications of world mega trends for decision analysis/decision support research

Hannele Wallenius, Jyrki Wallenius

- 2 Decision analysis and political processes Nikolaos Argyris, Simon French
- 3 Just society: a decision theoretic perspective Rakesh Sarin

 4 - A collaborative expert system for decision support in public policy

Matthias Wildemeersch, Elena Rovenskaya, Leena Ilmola

#### ■ MD-21

Monday, 14:30-16:00 - SOUTH BUILDING UV S303

# **Workforce Scheduling and Line Balancing III**

Stream: Project Management and Scheduling Chair: Evgeny Gurevsky

 Real-time personnel re-scheduling after a minor disruption

Rachid Hassani, Issmail El Hallaoui, Guy Desaulniers

2 - Bi-objective assembly line rebalancing problem with equipment assignment

Selin Özpeynirci, Elif Simsek

Reconfigurable transfer line balancing problem: exact and heuristic methods

Youssef Lahrichi

4 - Set-partition versus set-cover formulations for column generation based solution methodologies for optimal crew scheduling in the airline industry George Kozanidis, Odysseas Moschopoulos, Christos

Kaimakamis

#### ■ MD-22

Monday, 14:30-16:00 - SOUTH BUILDING UV S304

# Multicriteria Optimization for Portfolio and Subset Selection

Stream: Multiobjective Optimization

Chair: Iryna Yevseyeva

1 - Mean-variance Pareto front approximations with just a handful of Pareto optimal solutions

Janusz Miroforidis, Przemysław Juszczuk, Ignacy Kaliszewski, Dmitry Podkopaev

2 - Multi-criteria based optimisation model for human resource planning in telecommunication operations
Zirui Feng, Grammatoula Papaioannou, Rupal Rana, Jiyin
Liu, Anne Liret

- 3 The R2 Indicator: a study of its expected improvement when used as a selection criterion Andre Deutz
- 4 Ranking of instructional videos based on flexible TOPSIS

Blanca Pérez-Gladish, Vicente Liern, Enrique Lopez, Cristina Mendaña

#### ■ MD-23

Monday, 14:30-16:00 - SOUTH BUILDING UV S305

# **Event Timetabling**

Stream: Timetabling Chair: Sanja Petrovic

- 1 Euro conference scheduling: the problem is you! Thomas Stidsen, Pieter Smet, Greet Vanden Berghe
- 2 A planning tool for assigning proctors to university exams

Tino Henke, André Scholz, Gerhard Wäscher

3 - Exam scheduling at United States Military Academy **West Point** 

Robin Schuchmann

4 - An integer programming formulation of aposteriori fuzzy MOLP and assessment of efficient solutions via DEA for a case study in course timetabling

Mustafa Mehmet Bayar, Murat Atan, Irmak Uzun-Bayar

# ■ MD-24

Monday, 14:30-16:00 - SOUTH BUILDING UV S306

#### Financial Mathematics and OR IV

Stream: Financial Mathematics and OR Chair: Betül Kalaycı

1 - A neural network enhanced volatility component model

Jia Zhai, Yi Cao

2 - Time inconsistent stochastic differential game: theory and an example in insurance Hong Mao

3 - Dynamic cash management models with loan opportunities

Zimian Zhang

4 - Mutual relevance of investor sentiment and finance by modeling coupled stochastic systems by using **MARS** 

Betül Kalaycı, Ayse Özmen, Azar Karimov, Gerhard-Wilhelm Weber

#### ■ MD-25

Monday, 14:30-16:00 - SOUTH BUILDING UV S307

# **Graph Drawing**

Stream: Combinatorial Optimization II

Chair: Rafael Marti

1 - Resolution of the robust buffer allocation problem using network flows

Pascal Wortel

- 2 Non-crossings paths with geographic constraints Rodrigo Silveira, Bettina Speckmann, Kevin Verbeek
- 3 Heuristics for the min-max arc crossing problem in

Arild Hoff, Vicente Campos, Juanjo Peiró, Rafael Marti

4 - Hybrid representations of graphs: complexity results and heuristics

Giuseppe Di Battista

#### ■ MD-26

Monday, 14:30-16:00 - SOUTH BUILDING UV S308

### Railway Rapid Transit Systems Planning and Operation

Stream: Public Transportation I

Chair: David Canca Chair: Eva Barrena

1 - Heuristic search for the most compact graph for train unit scheduling optimisation

Pedro Jesús Copado Méndez, Raymond S. K. Kwan

2 - Cost evaluation of minimizing energy consumption in railway rapid transit lines timetables

Alejandro Zarzo, David Canca

3 - Static, time dependent and elastic passenger demand in railway timetabling

Eva Barrena, David Canca, Francisco A. Ortega Riejos

4 - On solving the integrated network design and line planning problem with elastic demand

David Canca, Alicia De Los Santos Pineda, Gilbert Laporte, Juan A. Mesa

#### ■ MD-27

Monday, 14:30-16:00 - SOUTH BUILDING UV S309

#### Facilities Planning and Design

Stream: Production, Service and Supply Chain Management

Chair: Daniel Ramon Lumbierres

- 1 An algorithm for designing a hybrid layout Ana Raquel Xambre
- 2 Optimal component compartmentalisation of process plants for modular construction

Timothy Haughton, Panagiotis Angeloudis, Panos Parpas

3 - Applying heuristic techniques for the combined design and scheduling of multiple lines multiproduct batch plants

Floor Verbiest, Trijntje Cornelissens, Johan Springael, Tânia Pinto\_Varela, Ana Barbosa-Povoa

4 - A multistage stochastic programming model for the strategic supply chain design

Daniel Ramon Lumbierres, F.-Javier Heredia

#### ■ MD-28

Monday, 14:30-16:00 - SOUTH BUILDING UV S310

# Behavioral Foundations of Service Systems

Stream: Service Operations Management

Chair: Mirko Kremer

1 - How observed queue length and service times drive queue behavior in the lab

Żeynep Aksin, Busra Gencer, Evrim Didem Gunes, Ozge Pala

- 2 Bounded rationality in clearing service systems Pelin Canbolat
- 3 Pooling queues in discretionary services Guillaume Roels, Mor Armony, Hummy Song
- 4 Mismanaging the quality-speed tradeoff in congested environments

Mirko Kremer, Francis de Véricourt

#### ■ MD-29

Monday, 14:30-16:00 - SOUTH BUILDING UV S311

### Game Theoretical Models and **Applications II**

Stream: Game Theory, Solutions and Structures Chair: Juan Tejada

1 - Game-theory approach to selecting the most beneficial inventory management policy: the case of online retailers assortment planning

Zahra Saberi, Morteza Saberi, Omar Khadeer Hussain, Elizabeth Chang

2 - Some applications of bankruptcy problems to engineering and management problems

Maria Teresa EstaÑ, Natividad Llorca, Joaquin Sánchez-Soriano

3 - Design of a market mechanism to achieve revenue adequacy for TSOS operating HVDC lines

Andrea Tosatto, Tilman Weckesser, Spyros Chatzivasileiadis

4 - Game theoretical centrality in social networks with multi-valued nodes

Juan Tejada, Javier Castro, Daniel Gomez Gonzalez, Elisenda

#### ■ MD-30

Monday, 14:30-16:00 - SOUTH BUILDING UV S312

# **Game Theory Applications in Operations** and Sustainability

Stream: Game Theory and Operations Management Chair: Gokce Esenduran

- 1 Converting retail food waste into by-product Mustafa Hayri Tongarlak
- 2 A parametric analysis of collaborative intermodal transport

Alberto Giudici

3 - Supplier development in a multi-tier supply chain Pınar Şimşek Yalçın, Ozgen Karaer, Tim Kraft

4 - Incremental solutions to online generalized multiitem multi-unit combinatorial auctions

Anup Kumar Sen, Amitava Bagchi

#### ■ MD-31

Monday, 14:30-16:00 - SOUTH BUILDING UV S313

#### **Behavioural OR: General Papers**

Stream: Behavioural OR Chair: Etienne Rouwette

1 - Behavioural operational research within two areas of conflict: an extended classification approach Damian Braschczok

2 - Developing ORBIT: the operational research behavioural interventions toolkit

Katharina Burger, Leroy White, Martin Kunc, Jonathan Malpass

- 3 Integration and application of problem structuring methods: an application in oil exploration Fahad Mehmood
- 4 Physics, foibles and failings: applying the 'behavioural turn' to the breadth of system dynamics practice

Etienne Rouwette, David Lane

#### ■ MD-32

Monday, 14:30-16:00 - SOUTH BUILDING UV S314

#### Air Transportation

Stream: Routing, Logistics, Location and Transporta-

Chair: Yagmur Simge Gök

1 - Integrated capacity management for airport runway systems

Stefan Frank, Karl Nachtigall

2 - Airspace sectorization by graph-and-geometric approach

Yasufumi Saruwatari, Yoichi Izunaga, Takamori Ukai, Kota Kageyama

- 3 Robust scheduling in airline operations planning: how robust are those schedules? Aykan Akincilar
- 4 New efficient heuristics to solve tactical airport check-in allocation problems

Yagmur Simge Gök, Maurizio Tomasella, Daniel Guimarans, Cemalettin Ozturk

#### ■ MD-33

Monday, 14:30-16:00 - SOUTH BUILDING UV S315

#### Data Mining and Statistics III

Stream: Data Mining and Statistics

Chair: Ozden Gur Ali

1 - A data-mining based process to early identify breast cancer from metabolomic data

Víctor Manuel Rivas Santos, Pedro José Sánchez-Rovira, Josè Javier Rosell García, Leticia Díaz-Beltrán, Jose Perez del Palacio, Francisca Vicente Area Head Screening & Validation, Caridad Díaz-Navarro, Daniel Franco, Ana Laura Ortega-Granados, Olga Genilloud, Carmen González-Olmedo, Sergio Granados-Principal, Francisco Javier García-Verdejo

2 - Improvement of schools performance with BI implementation

Rose Nelson, Olga Nazarenko

3 - Automatic forecasting of category-store sales considering cross-category effects

Ragip Gurlek, Ozden Gur Ali

4 - Combining local survey data with meta-analysis of global relative risks - studies to more accurately predict prevalence of diseases

Angi Ghanem, Ozden Gur Ali

#### ■ MD-34

Monday, 14:30-16:00 - SOUTH BUILDING UV S113

### **Numerical and Simulation Methods in** Finance II

Stream: Numerical and Simulation Methods in Finance

Chair: Ana Monteiro Chair: Ayşe Mutlu Derya

1 - An agent-based model for Korean stock market -KOSPI 200 and interactions among investors Chansoo Kim, Kyung O Baek, Haneol Cho

2 - Roster design for complex queue systems in banking Federico Trigos, Alan Vázquez-Alcocer, Leopoldo Cárdenas-Barrón

3 - Kernel density estimation: local cubic polynomial approach with non-arbitrage constraints

Ana Monteiro, Antonio Santos

#### ■ MD-48

Monday, 14:30-16:00 - 4D UPV B.3

## **OR Applied to Disaster Relief and Development Operations**

Stream: Humanitarian Operations Chair: Alfonso Pedraza-Martinez

1 - Multi-criteria optimization for last mile distribution of disaster relief aid: test cases and applications Begoña Vitoriano, José María Ferrer, F. Javier Martin-Campo, M. Teresa Ortuno, Alfonso Pedraza-Martinez, Gregorio Tirado

2 - Multi-vehicle prize collecting arc routing for connectivity problem

Vahid Akbarighadikolaei, Sibel Salman

3 - OR applications to humanitarian logistics in Latin America

Jaime Mora Vargas

4 - OR applied to humanitarian operations

Alfonso Pedraza-Martinez, Maria Besiou, Luk Van Wassenhove

#### ■ MD-49

Monday, 14:30-16:00 - 4D UPV B.4

## OR in Agriculture I

Stream: OR in Agriculture, Forestry and Fisheries

Chair: Victor M. Albornoz

1 - Lagrangian decomposition bounds for a crop rotation problem with adjacency constraints Geraldo Mauri

2 - A multi-objective model to optimize the food resource allocation in dairy systems

Gastón Notte, Pablo Chilibroste, Martin Pedemonte, Hector Cancela

3 - Mathematical models for improving the process of grape reception at Aveleda

Eliana Costa e Silva, Aldina Correia, Isabel Cristina Lopes

4 - Integrated versus hierarchical approach for zone delineation and crop planning under uncertainty

Victor M. Albornoz

#### ■ MD-50

Monday, 14:30-16:00 - 4D UPV 1.1

## **OR for Developing Countries III**

Stream: OR for Developing Countries

Chair: Milagros Baldemor Chair: Leroy White

- 1 Improving underprivileged children's access to education: a multi-methodology intervention in Hungary Gabriella Csanyi, Valentina Ferretti
- 2 Tackling the compositional nature of water, sanitation and hygiene (WASH) data in statistical analysis Fatine Ezbakhe, Agustí Pérez-Foguet
- 3 Education and environmental awareness in students of civil engineering, César Vallejo University '- Lima **East Campus**

Cesar Teodoro Arriola Prieto

4 - Implementation and evaluation of the targeting performance of the 4Ps program in Northwestern Philippines

Milagros Baldemor

#### ■ MD-51

Monday, 14:30-16:00 - 4D UPV 1.2

## **Designing Sustainable Vehicle Operations Management**

Stream: Environmental Sustainability in Supply Chains

Chair: Jutta Geldermann Chair: Christina Scharpenberg Chair: Martin Hrusovsky

 1 - Vehicle routing of mixed fleets with combustionpowered and electric vehicles

Herbert Kopfer, Benedikt Vornhusen, Jan Dethloff

2 - Sustainable vehicle routing of daily goods from small, regional producers

Christina Scharpenberg, Jutta Geldermann

3 - An integrated simulation-optimization for intermodal transport planning under uncertainty: a combination of offline and online planning

Martin Hrusovsky, Emrah Demir, Werner Jammernegg, Tom van Woensel

4 - The potentials and uncertainties associated with the coordinated charging of electric vehicles

Marcel Dumeier, Jutta Geldermann

## ■ MD-52

Monday, 14:30-16:00 - 4D UPV 1.3

## Health Care Modelling (ORAHS) III

Stream: OR for Health and Care I Chair: *Maria Eugénia Captivo* 

1 - A stochastic programming approach for multiappointment outpatient scheduling in cardiology Lida Anna Apergi, John Baras, Kenneth Wood, Bruce Golden

2 - Home healthcare staffing and scheduling Maria I. Restrepo, Louis-Martin Rousseau

3 - Dynamic appointment scheduling with forecasting for priority queuing systems with access time service levels

Ka Yuk Carrie Lin

4 - Optimizing ambulance dispatching and relocation Maria Eugénia Captivo, Ana Sofia Carvalho, Inês Marques

## **■** MD-53

Monday, 14:30-16:00 - 4D UPV 1.4

## **Seru Production and Price/Lead-time Competition and Financial Distress**

Stream: Operations/Marketing Interface Chair: *Kathryn E. Stecke* 

 Newsvendors' equilibrium strategies under price and lead-time competition

Zhengping Wu

 Matching uncertain market demand with seru production design

Yong Yin

Investigating operational factors on the way to financial distress

Nagihan Comez Dolgan

4 - The impact of platform-based product design on product differentiation

Hamed Jalali, Maud Van den Broeke, Inneke Van Nieuwenhuyse

### ■ MD-54

Monday, 14:30-16:00 - 4D UPV 1.6

#### **Multicriteria Assessment**

Stream: Energy Economics, Environmental Management and Multicriteria Decision Making

Chair: Ana Barbosa-Povoa

 Multi-criteria analysis and consequential lifecycle assessment of solid waste management - an integrated approach

João Clímaco, Anna Bernstad Saraiva, Rogério Valle, Cláudio Fernando Mahler

2 - Exploring the use of multi-criteria decision approaches for chemical alternatives analysis

Charles Corbett, Christian Beaudrie, Tom Lewandowski, Timothy Malloy, Xiaoying Zhou

3 - Evidence for overcoming the efficiency gap by fully integrating the decision process

Christian Schützenhofer

 4 - Environmental impact assessment in supply chain design and planning models: goal and scope definition challenges

Bruna Mota, Ana Carvalho, Maria Isabel Gomes, Ana Barbosa-Poyoa

#### ■ MD-55

Monday, 14:30-16:00 - 4D UPV 2.1

#### Academic-Practitioner Discussion Panel

Stream: Making an Impact I

Chair: John Hopes

 1 - Academic-practitioner discussion panel: getting the best from each other

Ruth Kaufman

#### ■ MD-56

Monday, 14:30-16:00 - 4D UPV 2.2

## Optimization in Renewable Energy Systems III

Stream: Optimization in Renewable Energy Systems

Chair: Andreas Bley

1 - Comparing time aggregation techniques in relation to capacity-expansion modeling

Stefanie Buchholz

2 - European industries' energy efficiency and performance under different productive regimes, revealing the role of heterogeneity, path dependence and energy mix

Eirini Stergiou, Kostas Kounetas

3 - Uncertainties and impacts of the demand response in the European power system

Héctor Marañón-Ledesma

4 - A Lagrangian solution approach for multi-sector energy system optimization

Andreas Bley, Frank Fischer, Angela Pape

### ■ MD-57

Monday, 14:30-16:00 - 4D UPV 2.3

### **Data Analytics for Bioinformatics**

Stream: Computational Biology, Bioinformatics and

Medicine

Chair: Sofiane Oussedik

 1 - Quality criteria for supply optimization: study case in an oncological healthcare institution

Juan Pablo Zamora Aguas, Oscar Mayorga T., Jair Eduardo Rocha-Gonzalez

2 - The use of continuous-time Markov models to disentangle differences in patterns of long-term functioning for children with attention-deficit/hyperactivity disorder

Qi Cao, Roel Freriks, Jurjen van der Schans, Annabeth Groenman, Pieter Hoekstra, Maarten Postma, Erik Buskens, Jochen Mierau

 Integer and constraint programming approaches for long-term care facility location

Mert Paldrak, Gamze Erdem, Gokberk Ozsakalli, Deniz Türsel Eliiyi

4 - Overview of decision optimization for data science experience

Sofiane Oussedik

#### ■ MD-58

Monday, 14:30-16:00 - 4D UPV 2.4

#### Teaching OR/MS II

Stream: OR Education

Chair: Aline Leão

- 1 Methods and tools in operations management experience from inverted-classroom-teaching

  Stefan Treitl
- 2 Legos and board games as resources for designing student-based learning experiences in optimization Pablo González-Brevis, Cristian Palma

3 - Playful labs to support the teaching of linear programming

Jainet Bernal Orozco

4 - Taking off with mathematics: an activity for introductory OR courses

Aline Leão, Franklina Toledo, Adaiton Moreira de Oliveira Filho

#### ■ MD-59

Monday, 14:30-16:00 - 4D UPV 2.5

### **Supply Chain Modelling and Optimisation**

Stream: OR Advances in Agribusiness

Chair: Jorge E. Hernández

1 - Determining the space and the percentage of preference of each product category of a department store by using multi criteria decision making methodologies

Gulcin Dinc Yalcin, Zehra Kamisli Ozturk

2 - Routes planning for managing inventory at animal husbandry department

Sanjay Choudhari, Saurabh Chandra

3 - Optimization of cooperative production and distribution schemes in an agro-business model Jose Velasquez, Camilo Gomez, Liliana Aponte

4 - Review on operational research advances in agrifood supply chains and societal challenges

Jorge E. Hernández, Janusz Kacprzyk, Andrew Lyons, Angel Ortiz, Hervé Panetto

#### **■ MD-60**

Monday, 14:30-16:00 - 4D UPV B.5

#### Meet the editors of EJOR

Stream: EURO Special Sessions

Chair: Roman Slowinski

 Some facts about the European journal of operational research (EJOR)

Roman Slowinski, Emanuele Borgonovo, Robert Dyson, José Fernando Oliveira, Steffen Rebennack, Ruud Teunter

2 - The single-item green lot-sizing problem with fixed carbon emissions

Stéphane Dauzere-Peres, Nabil Absi, Safia Kedad-Sidhoum, Bernard Penz, Christophe Rapine

3 - The multi-vehicle traveling purchaser problem with pairwise incompatibility constraints and unitary demands: a branch-and-price approach

Daniele Manerba, Michel Gendreau, Renata Mansini

## Monday, 16:30-17:30

## **■ ME-01**

Monday, 16:30-17:30 - UPV Nexus

## The Discrete Charm of Districting

Stream: Plenaries Chair: Ruben Ruiz

1 - The Discrete Charm of Districting

Roger Z. Rios-Mercado

Monday, 17:45-19:00

## Tuesday, 8:30-10:00

#### **■ TA-01**

Tuesday, 8:30-10:00 - UPV Nexus

## Community structure in complex networks

Stream: Keynotes Chair: Gerhard-Wilhelm Weber

1 - Community structure in complex networks

Santo Fortunato

#### **■ TA-02**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S101

## DEA, Banking, Financial Institutions I

Stream: DEA: Applications

Chair: Julián Benavides

 Evaluating the performance and ranking of Refah bank branches in Iran by using data envelopment analysis

Mohsen Rostamy-Malkhalifeh, Hossein Rahmati, Mohammad Ali Sahmani, Mohsen Ziaee

2 - Evaluating efficiencies of financial holding companies in Taiwan: an application of copula-based stochastic frontier methods

Chi-Chuan Lee

3 - Introduction to best classification in data envelopment analysis and using it to improve performance of Refah bank branches in Iran

Mohsen Ziaee, Mohammad Ali Sahmani, Hossein Rahmati, Mohsen Rostamy-Malkhalifeh

4 - Efficiency determinants of Brazilian commercial banks

Julián Benavides, Juan Garrido, Guillermo Buenaventura, Felipe Henao

#### **■ TA-03**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S103

## Facility Location in Supply Chains II

Stream: Location Analysis and Optimization Chair: *Jean-Sébastien Tancrez* 

The design of resilient food supply chain networks prone to disruptions

Seyed Mohammad Gholami-Zanjani, Walid Klibi, Mohammad Saeed Jabalameli

- 2 Evaluating horizontal cooperation in supply chains
  Thomas Hacardiaux, Jean-Sébastien Tancrez
- 3 A methodology for the design of express service lines

Victor Bucarey, Cristian Cortes, Fernando Ordonez, Bruno Stefoni

 4 - Flexibility mechanisms for the design of robust supply chains

Jean-Sébastien Tancrez, Matias Schuster

#### **■ TA-04**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S104

## **Financial Modelling and Applications**

Stream: New Challenges in Investment Strategies,

Risk and Financial Modelling

Chair: Giulia Rotundo

 Evidence regarding external financing in Romanian exporting medium sized enterprises from manufacturing sector

Eduard Gabriel Ceptureanu

2 - Debt growth as a leading indicator for stock returns: evidence from an emerging market

Rouhollah Ebrahimabadi, Gurjeet Dhesi

3 - Capturing long-term coupling and short-term decoupling crude oil and natural gas prices Hayette Gatfaoui

4 - Estimating enterprise values based on linear optimization

Soeren Guntram Harms, Marcel Clermont, Heinz Ahn

### ■ TA-05

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S105

## **Exact Methods for Vehicle Routing Problems II**

Stream: Vehicle Routing and Logistics Optimization I Chair: *Hakan Altunay* 

 A multidirectional dynamic programming algorithm for the shortest path problem with resource constraints

Ilyas Himmich, Issmail El Hallaoui, Francois Soumis

2 - Branch and cut solution approach for the capacitated location routing problem

Theocharis Metzidakis, Panagiotis Repoussis, Manolis Kritikos, George Ioannou

3 - Mathematical models and an exact algorithm for the heterogeneous vehicle routing problem

Federico Perea, Gilbert Laporte, Ruben Ruiz, Luis Fanjul Peyró

4 - A new mathematical model for the close-open vehicle routing problem

Hakan Altunav

#### **■ TA-06**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S106

#### **Consumer Returns in Retail**

Stream: Demand and Supply Management in Retail and Consumer Goods

Chair: Alexander Hübner

1 - Selling consumer returns on the secondary market: an OEMs strategy to deal with a non-cooperative retailer

Andrea Borenich, Yanick Dickbauer, Marc Reimann, Gilvan C. Souza

2 - Optimal pricing of points in points plus cash reward programs

Ricardo Montoya

3 - Closed-loop supply chain network design under demand, return and quality uncertainty

Sakine Batun, Kadir Biçe

4 - The relationship between customer satisfaction and service quality in e-commerce

Evripidis Kechagias, George Chatzistelios, Georgios Papadopoulos, Dimitra Kyriou

### **■ TA-07**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S107

## **Analytic Hierarchy Process V**

Stream: Analytic Hierarchy Process / Analytic Network

**Process** 

Chair: Massimo Squillante

A dynamic hybrid modeling approach for global facility location

Hafiz Muhammad Khurram Ali, Khalid Akhtar, Sami Farooq, Mirza Jahanzaib

2 - The AHP in eco gestation of operations: a reuse of organic waste case

Astrid Oddershede, Felipe Reitter, Luis Quezada

- 3 A multi-phase decision making approach combining the EFA, AHP and Multi-MOORA for the career choice of undergraduates in department of statistics Sevgi Abdalla
- 4 An experimental approach for comparing inconsistency of multiplicative, additive and fuzzy approaches

Massimo Squillante, Bice Cavallo, Alessio Ishizaka, Maria Grazia Olivieri

## **■ TA-08**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S108

## **Combinatorial Optimization on Graphs I**

Stream: Combinatorial Optimization I

Chair: Francesco Carrabs

 1 - The discrete P-dispersion problem for the close enough traveling salesman problem

Carmine Cerrone, Francesco Carrabs, Raffaele Cerulli, Bruce Golden

2 - A three-stage p-median based exact method for the optimal diversity management problem

Adriano Masone, Antonio Sforza, Claudio Sterle, Igor Vasilyev, Anton Ushakov

3 - On a network function virtualization chaining problem with simple path routing: properties and formulations

Giuliana Carello, Bernardetta Addis, Meihui Gao

4 - A metaheuristic algorithm for the all-colors shortest path problem

Francesco Carrabs, Raffaele Cerulli, Andrea Raiconi

#### **■ TA-09**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S109

## The Role of Mathematical Optimization in Data Science V

Stream: European Working Group: Data Science

Meets Optimization Chair: Adam Elmachtoub

1 - Small-data, large-scale linear optimziation

Vishal Gupta, Paat Rusmevichientong

2 - Condition number analysis of logistic regression and its implications for standard first-order solution methods

Paul Grigas, Robert M. Freund, Rahul Mazumder

3 - Discovering optimal policies: a machine learning approach to model analysis

Fernanda Bravo, Yaron Shaposhnik

4 - Smart predict, then optimize

Adam Elmachtoub, Paul Grigas

### **■ TA-10**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S110

## **Decision Aiding Methods V**

Stream: Multiple Criteria Decision Aiding

Chair: Nguyen Anh Vu Doan

 Better together: improved predictive accuracy of preference disaggregation by discovering structural similarities in preference models

Mohammad Ghaderi, Nuria Agell, Milosz Kadzinski

GAIA-SMAA-PROMETHEE for a hierarchy of interacting criteria

Sally Giuseppe Arcidiacono, Salvatore Greco, Salvatore Corrente

3 - PROMETHEE R: from ranking to rating

Bertrand Mareschal

4 - An alternative weight stability analysis for PROMETHEE II rankings based on inverse optimization

Nguyen Anh Vu Doan, Yves De Smet

### **■ TA-11**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S111

### **Uplift Modelling**

Stream: Business Analytics Chair: Sebastian Maldonado

Profit-driven decision tree approaches for uplift modeling

Floris Devriendt, George Petrides, Stefan Lessmann, Wouter Verbeke

2 - Sampling techniques for uplift modeling for improved stability and performance

Dimitri Robert, Floris Devriendt, George Petrides, Wouter Verbeke

3 - A survey & experimental evaluation of multiple treatment uplift modeling

Diego Andres Olaya Lasso, Wouter Verbeke

4 - Profit-based credit scoring based on robust optimization and support vector machines

Sebastian Maldonado, Julio López

### **■ TA-12**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S112

# Non-Standard Optimization and Decision-Making Methods II

Stream: Fuzzy Optimization

Chair: Jaroslav Ramik

1 - Interval linear programming: checking weak optimality of a given solution is NP-hard

Miroslav Rada, Milan Hladik, Elif Garajová

2 - Determinants of technological innovation capability in high technology and manufacturing firms - using Fuzzy-DEMATEL method

Chi-Hui Wu, Po-Wei Su, Ching-Torng Lin, Thi Phuong Thao

3 - Using multi criteria decision making to select the most appropriate organization of maintenance section in Iran airline

Ahmad Makui

4 - Computing interval eigenvectors of interval fuzzy and max-plus matrices

Ján Plavka, Martin Gavalec

## **■ TA-13**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S201

## Continuous Optimization and Industrial Applications

Stream: Applications Related to Continuous Optimiza-

tion

Chair: Sureyya Ozogur-Akyuz

 1 - A unified optimization framework for electrochemical wastewater treatment with continuous energy consumption monitoring

Emine Esra Gerek, Ali Savaş Koparal, Omer Nezih Gerek

2 - Optimal cross-border electricity trading Maria Flora

3 - Monitoring the multivariate coefficient of variation via optimised control charts

Vicent Giner-Bosch, Philippe Castagliola, J. Carlos García-Díaz, Andrés Carrión

#### **■ TA-14**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S202

## **Proximal Gradient-Type Algorithms**

Stream: Nonlinear Programming: Methods Chair: Junfeng Yang

- 1 Some theoretical and numerical analysis for nonsmooth convex regression with cardinality penalty Wei Bian
- 2 Iteratively dynamically reweighted methods for nonconvex regularized problems Hao Wang
- 3 Proximal algorithms with extrapolation for structured nonconvex nonsmooth problems Bo Wen
- 4 On progressive hedging algorithm for multistage stochastic programming and stochastic variational inequalities

Junfeng Yang

## **■ TA-15**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S203

## **Vehicle Routing with Time Windows**

Stream: Vehicle Routing and Logistics Optimization II Chair: Said Dabia

 Logic-based benders decomposition for the heterogeneous fixed fleet vehicle routing problem with time windows

Vinícius Armentano, Ramon Fachini

2 - The stochastic and robust time window assignment vehicle routing problem

Maaike Hoogeboom, Patrick Jaillet, Yossiri Adulyasak, Wout Dullaert 3 - A comparative study of branch-and-price algorithms for vehicle routing with time windows and waiting time costs

Stefano Michelini, Yasemin Arda, Hande Kucukaydin

4 - Cover inequalities for a vehicle routing problem with time windows and shifts

Said Dabia, Stefan Ropke, Tom van Woensel

## **■ TA-16**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S115

## **Urban Logistics**

Stream: Green Logistics Chair: Jan Fabian Ehmke

Investing in facilities today to reduce routing emissions tomorrow

Fabien Tricoire, Sophie Parragh

2 - A two-echelon vehicle routing problem with unmanned ground vehicles for city logistics Jakob Puchinger, Shaohua Yu

3 - Optimizing routes with sustainability criteria in transportation management

Lorena Reyes-Rubiano, Laura Calvet, Javier Faulin, Angel A. Juan

4 - Can tolling schemes really reduce emissions of freight transportation in urban area?

Jan Fabian Ehmke, Shu Zhang, Ann Campbell

#### **■ TA-17**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S205

## Stochastic Programming in Tactical and Capacity Expansion Planning

Stream: Stochastic and Robust Optimization Chair: Laureano Fernando Escudero

1 - Risk management for rapid transit network capacity expansion planning

Ángel Marín, Luis Cadarso, Laureano Fernando Escudero

- **2 Scenario reduction by conditional scenarios** *Cesar Beltran-Royo*
- 3 A tactical planning model with uncertain demand using a two-stage stochastic programming model for a fruit supply chain

LluisM Pla, Wladimir Soto-Silva, Marcela C. Gonzalez-Araya, Jordi Mateo, Francesc Solsona

4 - On strategic and operational uncertainties for capacity expansion planning risk management

Laureano Fernando Escudero, Antonio Alonso-Ayuso

#### **■ TA-18**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S206

#### Risk Measurement and Modeling

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

Chair: Fabio Bellini

An ordinal information based estimator of risky asset returns

Eranda Cela, Stephan Hafner, Roland Mestel, Ulrich Pferschy

2 - Elicitability and identifiability of measures of systemic risk

Jana Hlavinová, Tobias Fissler, Birgit Rudloff

3 - Generalized Little's law and an asset picking system to model an investment portfolio: a large-scale model

Maria Luisa Ceprini, John D C Little

4 - Dynamic properties of classical and robust Orlicz and Haezendonck-Goovaerts risk measures

Fabio Bellini, Roger Laeven, Emanuela Rosazza Gianin

### ■ TA-19

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S207

## Vector and Set-Valued Optimization V

Stream: Vector- and Set-Valued Optimization Chair: Phan Quoc Khanh

 1 - Dynamic origin-destination-matrix estimation for commuter train planning: an entropy-maximization approach

Abderrahman Ait Ali

2 - On generalized-convex constrained multi-objective optimization and application in location theory Christian Günther

3 - Lipschitz properties of cone-convex set-valued functions

Anh Tuan Vu, Thanh Tam Le

4 - Linear and nonlinear metric regularity and optimality conditions

Phan Quoc Khanh

#### ■ TA-20

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S301

#### **Decision Analysis Applications I**

Stream: Decision Analysis and Decision Support Systems

Chair: Antti Punkka

1 - The global value of offshore wind energy Zana Cranmer, Erin Baker

2 - Energy network management of an oil refinery Elif Mete 3 - Data-driven decision support for maintenance management using unsupervised learning and integer programming

Subanatarajan Subbiah, Talha Badr, Ralf Gitzel

4 - Development of a flexible multi-objective duty roster planning tool

Antti Punkka, Aleksi Porokka

#### **■ TA-21**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S303

## Workforce Scheduling and Line Balancing IV

Stream: Project Management and Scheduling Chair: Sergey Kovalev

1 - Parallel machine scheduling with job splitting, sequence-dependent setup times, and limited setup resources

Hyun-Jung Kim, Jun-Ho Lee

2 - A cutting plane approach for the multi-machine precedence-constrained scheduling problem

George Vairaktarakis, Prahalad Venkateshan, Joseph Szmerekovsky

3 - Workforce management in call centers Marc-Philip Piehl, Michael Manitz

4 - Order batching & sequencing in bucket brigade order

Yossi Bukchin, Eran Hanany, Eugene Khmelnitsky

#### **■ TA-22**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S304

## Multicriteria Optimization for Scheduling and Transportation Problems

Stream: Multiobiective Optimization

Chair: Vitor Basto-Fernandes

1 - A multi-objective approach for a sustainable flexible parallel assembly line: a real case study Ahmed Mohammed, Irina Harris

2 - A network approach to group decision making portfolios and its application in multiobjective schedul-

Michael Emmerich, Iryna Yevseyeva

3 - Modelling and solution methods for efficient utilization of multiple servers

Nursen Aydin, Ibrahim Muter, Ilker Birbil

4 - Evolutionary multi-objective scheduling for antispam filtering throughput optimization

Vitor Basto-Fernandes, Iryna Yevseyeva, Michael Emmerich

### **■ TA-23**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S305

## Course Timetabling

Stream: Timetabling Chair: Sania Petrovic

1 - A multi-objective approach for university course timetabling problem

Erika Tatiana Ruíz Orjuela, Diego Andrés Carreño Dueñas, Luis Amaya Gonzalez

- 2 Course timetabling in a flexible semester structure Marco Chiarandini
- 3 Bi-criteria simulated annealing algorithms for the robust university course timetabling problem Can Akkan, Ayla Gülcü
- 4 An integer programming based scheduling of university wide orientation course activities Aydin Ulucan, Eren Miski Aydin, Bulent Cekic

## ■ TA-24

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S306

#### Financial Mathematics and OR V

Stream: Financial Mathematics and OR Chair: Zhongfei Li

1 - An assessment of long-term investments risk in longevity risk protection Justyna Majewska, Grażyna Trzpiot

2 - Portfolio selection with minimum regularised covariance determinant estimators

Marco Neffelli, Marina Resta, Maria Elena De Giuli

- 3 A variance decomposition in stock portfolios Javier Giner
- 4 A multinomial-tree gambling model Zhongfei Li

#### ■ TA-25

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S307

## Combinatorial Optimization and Logistics Operations

Stream: Combinatorial Optimization II Chair: Jiyin Liu

- 1 On emptying a container bay by neural network Yat-wah Wan, Wen-Fu Yang
- 2 Inventory sharing policy for medical supplies in Hong Kong hospitals

King-Wah Anthony Pang, Ping Zhang, Hong Yan

3 - Field scheduling with time windows to minimise the service risk of missing appointments Chenlu Ji, Rupal Rana, Jiyin Liu

4 - A new approach for the vehicle sharing and workforce scheduling problem

Pol Arias, Rupal Rana, Jiyin Liu

### **■ TA-26**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S308

### **Crew Planning**

Stream: Public Transportation I

Chair: Twan Dollevoet Chair: Thomas Breugem

1 - A matheuristic for the driver scheduling problem with staff cars

Shyam Sundar Govindaraja Perumal, Jesper Larsen, Richard Lusby, Morten Riis, Kasper Sørensen

2 - A column generation approach for railway crew replanning

Thomas Breugem, Twan Dollevoet, Dennis Huisman

3 - Novel formulations for railway crew rostering Twan Dollevoet, Thomas Breugem, Dennis Huisman

## **■ TA-27**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S309

## Logistics

Stream: Production, Service and Supply Chain Man-

agement

Chair: Sangmoo Shin

1 - Competition, decision rights, and supply chain struc-

Sudheer Gupta

2 - Lifetime extension and an application to PC upgrad-

Sha Zhu, Rommert Dekker, Willem van Jaarsveld

3 - Optimal allocation of spares to maximize the window fill rate in a two-echelon exchangeable-item repair

Michael Dreyfuss, Yahel Giat

4 - How does the Korean textile industry build competitive capabilities? Comparative case studies

Sangmoo Shin, Euisung Jung

#### **■ TA-28**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S310

#### Service Operations and Supply Chains: A **Cross-Section**

Stream: Service Operations Management

Chair: Itir Karaesmen

1 - Data-driven process mining: discovering treatment approaches for preference-sensitive medical conditions

Feryal Erhun, Katherine Bobroske, Lawrence Huan, Michael Freeman, Anita Cattrell, Jenny Wang, Rich King, Stefan

2 - Improving access of low back pain patients through prioritization at a neurosurgery clinic

Esma Gel

3 - Optimal assignment of human resources to a public service organization: the case of using quantitative methods in a qualitative problem

Stelios Koukoumialos, Athanasios Spanos, Michael Vidalis

4 - Coordinating broker's procurement and logistics decisions

Itir Karaesmen

### ■ TA-29

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S311

### Models in Game Theory: Solutions

Stream: Game Theory, Solutions and Structures Chair: Amparo Urbano

1 - A two-step proportional rule for division with multiple characteristics

Miguel A. Hinojosa, Amparo Mármol

2 - Strategic vector-valued games with Rawlsian preferences

Amparo Mármol, Asunción Zapata, Luisa Monroy, Maria de los Angeles Caraballo

3 - Opinion formation and targeting when persuaders have extreme and centrist opinions

Agnieszka Rusinowska, Akylai Taalaibekova

4 - Multiproduct trading of indivisible goods with many sellers and buyers

Amparo Urbano, Ivan Arribas

#### ■ TA-30

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S312

#### **Operations Research Games I**

Stream: Game Theory and Operations Management Chair: Ana Meca

1 - Full null player in partition function form M' Gloria Fiestras-Janeiro, Mikel Álvarez-Mozos, Andrés

Jiménez-Losada, José María Alonso-Meijide

2 - Delay allocation in stochastic projects Juan Carlos Gonçalves, Ignacio García-Jurado, Julian Costa

3 - Warning against recurring risks: an information design approach

Francis de Véricourt, Saed Alizamir, Shouqiang Wang

4 - A tractable network game of atomic dynamic flows

## **■ TA-31**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S313

#### Behaviour in Models II

Stream: Behavioural OR

Chair: Pekka Laitila

1 - Does corporate social responsibility impact preferences in ESG portfolio optimization?

Gordon Dash, Nina Kajiji

2 - Simulation of cultural processes and their social impact

. Leonidas Sakalauskas

3 - Affective decision making models with applications to social robotics

Si Liu, David Rios Insua

4 - On practical applicability of ranked nodes method for constructing conditional probability tables of Bayesian networks

Pekka Laitila, Kai Virtanen

#### **■ TA-32**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S314

### **Picking and Location Assignment**

Stream: Routing, Logistics, Location and Transporta-

tion

Chair: Zehra Duzgit

 Cooperation strategies for improving the orderpicking operations in a synchronized zone picking warehouse

Ying-Chin Ho, Chih-Feng Chou

2 - An integrated cluster-based storage assignment policy

Masoud Mirzaei, Nima Zaerpour, René de Koster

3 - A new method to solve for exact upper bounds for interval transportation problem with uncertain supplies and demands

Kushani De Silva, Mohomed Juman

 Design of a warehouse order picking policy system using genetic algorithm

Zehra Duzgit, Ahmet Can Saner, Ozgur Toy

#### **■ TA-33**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S315

## **Data Mining and Statistics IV**

Stream: Data Mining and Statistics

Chair: Edward Thommes

 1 - Public transport passenger flow analysis and prediction using alternating Markov-modulated linear regression

Nadezda Spiridovska, Irina Jackiva

2 - An application of process mining and association rule mining for indoor customer data

Onur Doğan, Basar Oztaysi

3 - Assessing the prior event rate ratio method via probabilistic bias analysis on Bayesian networks

Edward Thommes, Salaheddin Mahmud, Yinong Young-Xu, Julia Thornton Snider, Robertus van Aalst, Jason Lee, Ayman Chit

## **■ TA-34**

Tuesday, 8:30-10:00 - SOUTH BUILDING UV S113

## Reverse Logistics and Remanufacturing Networks

Stream: Sustainable Supply Chains

Chair: Salvatore Cannella

 Strategic design of multiple lifecycle products for remanufacturing operations

Neil Geismar, M. Serkan Akturk, James Abbey

2 - Inspecting the boomerang when it returns: on the impact of core quality grading on the bullwhip performance of closed-loop supply chains

Borja Ponte, Mohamed Naim, Aris Syntetos, Salvatore Cannella, Roberto Dominguez

3 - On the dynamics of closed-loop supply chain with stochastic remanufacturing lead times

Roberto Dominguez, Salvatore Cannella, Borja Ponte, Mohamed Naim, Aris Syntetos

4 - Bullwhip effect and closed-loop supply chains: systematic review and simulation analysis

Salvatore Cannella, Roberto Dominguez, Borja Ponte, Jose M Framinan

#### **■ TA-48**

Tuesday, 8:30-10:00 - 4D UPV B.3

# **Exploring Dynamic Behaviors in Humanitarian Operations**

Stream: Humanitarian Operations

Chair: Tharcisio Fontainha

1 - Joint fundraising appeals: allocation rules and conditions that encourage aid agencies' collaboration

Tina Wakolbinger, Fuminori Toyasaki

2 - Improving disaster response processes through the application of the design structure matrix

Tharcisio Fontainha, Paulo Goncalves, Adriana Leiras

### **■ TA-49**

Tuesday, 8:30-10:00 - 4D UPV B.4

## **OR in Agriculture II**

Stream: OR in Agriculture, Forestry and Fisheries Chair: Concepcion Maroto

1 - Risk evaluation of livestock farms by integrating GIS and multicriteria techniques

Áurea Gallego Salguero, Marina Segura, Concepcion Maroto, Consuelo Calafat Marzal, Israel Quintanilla

2 - Which is better for planning the bottling lines of an export-oriented winery: a stochastic linear programming model or a robust optimization model?

Sergio Maturana, Nicolas Villavicencio, Alejandro Mac Cawley

3 - Multi-objective optimization for the selection of wells for a water monitoring campaign of the Patiño aquifer, Paraguay

Christian von Lucken, Liz Báez, Cynthia Emilia Villalba Cardozo, Juan Pablo Nogues

4 - Aggregated linear programming models to estimate emissions of livestock production from animal diets Concepcion Maroto, Marina Segura, Concepción Ginestar, Baldomero Segura

#### **■ TA-50**

Tuesday, 8:30-10:00 - 4D UPV 1.1

## **Optimization of Biomass-Based Supply Chains**

Stream: Biomass-Based Supply Chains Chair: *Magnus Fröhling* 

- 1 Designing optimal contracts between biomass processors and producers in the US biofuels industry Sinem Tokcaer, Ozgur Ozpeynirci, Hayri Onal
- 2 The effect of postponement strategies under sequence dependent setup times in the wine industry
  Alejandro Mac Cawley, Sergio Maturana, Benjamin Bastidas,
  Mauricio Varas
- 3 Households' decision processes in an agent-based simulation using PROMETHEE

Beatriz Beyer, Lars-Peter Lauven, Jutta Geldermann

4 - Combining GIS and location planning to evaluate biomass utilisation chains

Magnus Fröhling, Andreas Rudi, Charlie Liebscher

#### **■ TA-51**

Tuesday, 8:30-10:00 - 4D UPV 1.2

#### OR for Energy Systems Integration

Stream: Environmental Sustainability in Supply Chains Chair: Mel Devine

1 - Energy sector integration - opportunities and challenges arising from an electrification of heating and transport sectors

Hans Christian Gils

2 - Multi-objective optimal congestion management in the German transmission grid

Manuel Ruppert, Viktor Slednev, Valentin Bertsch, Wolf Fichtner

3 - Soft-linking capacity expansion problems: development of local energy systems connected to the central grid

Stian Backe, Pedro Crespo del Granado, Dimitri Pinel, Asgeir Tomasgard, Magnus Korpås

4 - Modelling demand-side flexibilities from wastewater treatment plants in an integrated energy system

Dana Kirchem, Valentin Bertsch, Juha Kiviluoma, Muireann Lynch, Eoin Casey

#### **■ TA-52**

Tuesday, 8:30-10:00 - 4D UPV 1.3

## **Treatment Scheduling**

Stream: OR for Health and Care I

Chair: Bruno Vieira

Improving the efficiency of the operating room environment with a generalizable optimization and machine learning model

Margaret L. Brandeau

2 - Stochastic appointment scheduling in a team primary care practice with two nurses and two providers Ana Muriel, Hyun Jung 'Joanne' Alvarez Oh, Hari

Balasubramanian, Ekin Koker

3 - Effective and equitable appointment scheduling in rehabilitation centers

Pinar Keskinocak, Idil Arsik, Kirthana Hampapur, Kristin Goin

4 - Improving timeliness in radiotherapy using discreteevent simulation modeling

Bruno Vieira, Derya Demirtas, Jeroen B. van de Kamer, Erwin W. Hans. Wim van Harten

## **■ TA-53**

Tuesday, 8:30-10:00 - 4D UPV 1.4

## Product Line Design, Strategic Consumer Behavior, and Distribution Channel

Stream: Operations/Marketing Interface

Chair: Ovunc Yilmaz

- 1 The impact of distribution channels on trial-version provision with a positive network effect Fan Li, Zelong Yi
- 2 Managing risk of change based on similarity of propagation effects
  Qing Yang

3 - Empirically estimating strategic behavior for hotel standby upgrade programs

Ovunc Yilmaz, Mark Ferguson, Pelin Pekgun, Guangzhi Shang

## **■ TA-54**

Tuesday, 8:30-10:00 - 4D UPV 1.6

## **OR in Sports**

Stream: OR in Sports Chair: Stephan Westphal

 Home-away pattern sets: properties, experiments, and flexibility

Frits Spieksma, Dries Goossens

2 - Fair players allocation in ATP tournaments generation

Gabriele Dragotto, Federico Della Croce, Rosario Scatamacchia

3 - Avoiding combinatorial clashes for The Champions Hockey League group stage draw

Stephan Westphal, Martin Dahmen

#### **■ TA-55**

Tuesday, 8:30-10:00 - 4D UPV 2.1

#### **Technical Issues in Practice**

Stream: Making an Impact I

Chair: Sofiane Oussedik

 1 - Always count the cost - shortest path calculations in transport logistics

Stefan Hug

2 - IT architectures for OR applications deployment Sofiane Oussedik

#### **■ TA-56**

Tuesday, 8:30-10:00 - 4D UPV 2.2

## **Optimization of Energy Systems**

Stream: Optimization in Renewable Energy Systems Chair: Welington de Oliveira

1 - Energy plant operation and installation plan via stochastic programming

Tomoki Fukuba, Shuichi Isomura, Takayuki Shiina

2 - On the determination of Turkish natural gas balancing and wholesale market prices

Kürşad Derinkuyu, Rabia Taspinar, Furkan Ezer, Melike Yıldız, Seher Onay, Sevde Nur Ozbolat, Pelin Tekin

 Optimization of biogas production by anaerobic digestion

Helenice Florentino, Daniela Cantane, Felipe Teles, Leandro Marcucci

 Stochastic dual dynamic programming with modified cuts applied to the Brazilian long-term hydrothermal scheduling problem

Welington de Oliveira, Felipe Beltrán, Guilherme Fredo, Erlon Finardi

#### **■ TA-57**

Tuesday, 8:30-10:00 - 4D UPV 2.3

## **Public Health Networks**

Stream: Computational Biology, Bioinformatics and Medicine

Chair: Justyna Rój

- Minimizing health-compromising behaviors via school-based programs: an optimization approach Banafsheh Behzad
- 2 Markovian decision models to design public policies on critical patient units in a public health network Alejandro Cataldo, Antoine Sauré, Jonathan Patrick
- Financial performance index for hospitals: DEA approach. Case of Poland

Justyna Rój

#### **■ TA-58**

Tuesday, 8:30-10:00 - 4D UPV 2.4

#### Teaching OR/MS III

Stream: OR Education Chair: Marta Pascoal

 Students' preferences for learning operations research elicited by using qualitative and AHP methods

Marina Segura, Concepción Maroto, Concepción Ginestar, José Ramónn Navarro

2 - How dropping their worst homework might be prejudicial to your students: an application of Simpson's paradox and its impact on equity

Javier Rubio-Herrero

3 - OR for children: robotic warehouse simulation using Lego Mindstroms

Lin Xie

4 - Introducing network optimization problems to middle school students

Marta Pascoal

## **■ TA-59**

Tuesday, 8:30-10:00 - 4D UPV 2.5

## Policy-Enabling Models for the Power Sector

Stream: Technical and Financial Aspects of Energy

**Problems** 

Chair: Afzal Siddiqui

1 - Analysis of storage and water value in power systems for policymaking on renewable energies Diego Tejada, Afzal Siddiqui, Sonja Wogrin, Efraim Centeno

Hernáez

2 - Switching options in peaking power plants: enticing availability by capacity remuneration

Stein-Erik Fleten, Erik Haugom, Alois Pichler, Carl Ullrich

3 - Utility-scale energy storage in an imperfectly competitive power sector

Ahti Salo, Vilma Virasjoki, Afzal Siddiqui

 4 - Economic and environmental consequences of market power in the South-East Europe regional electricity market

Afzal Siddiqui, Verena Viskovic, Yihsu Chen, Makoto Tanaka

## **■ TA-60**

Tuesday, 8:30-10:00 - 4D UPV B.5

#### **EURO Excellence in Practice Award I**

Stream: EURO Special Sessions

Chair: Ulrich Dorndorf

- 1 A combinatorial exchange for fishery access rights Martin Bichler, Douglas Ferrell, Vladimir Fux, Jacob Goeree
- 2 Scheduling the South American qualifiers to the 2018 FIFA World Cup by integer programming

Guillermo Durán, Mario Guajardo, Denis Saure

3 - Operational research as a driver for rural regeneration

Valentina Ferretti, Elisa Gandino

## Tuesday, 10:30-12:00

#### **■** TB-01

Tuesday, 10:30-12:00 - UPV Nexus

## **Putting Operations Research to work**

Stream: Keynotes Chair: Geir Hasle

1 - Putting Operations Research to work

Iris F.A. Vis

## **■ TB-02**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S101

### DEA, Banking, Financial Institutions II

Stream: DEA: Applications

Chair: Lucie Chytilová

 1 - Discriminate analysis and data envelopment analysis with specific data and its application for companies in the Iranian stock exchange

Mohammad Fallah, Farhad Hosseinzadeh Lotfi, Alireza Amirteimoori, Mohsen Vaez-Ghasemi, Bijan Rahmani Parchikolaei, Mohammad Mehdi Hosseinzadeh

2 - Comparative analysis for mapping the relative positions of bank brands: an application of attribute-based perceptual mapping using factor analysis and DEA

Jinal Parikh

3 - The banking sector in Columbia from the perspective of relative efficiency

Gloria Rodriguez-Lozano

4 - Efficiency evaluation using DEA with interval dualrole factors at banking sector of Visegrad Group countries

Lucie Chytilová

#### **■ TB-03**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S103

## Facility Location in Transportation Networks

Stream: Location Analysis and Optimization

Chair: Sanja Petrovic

1 - Analysis of location model for charging facility considering driving distance

Yohei Kakimoto, Hiroyuki Goto, Yoichi Shimakawa, Hirotaka Takahashi

2 - Greedy, exact and hybrid solution methods applied to the traffic counters location problem in transportation networks

Bruno Vieira, Thayse Ferrari, Glaydston Ribeiro, Romulo Orrico, Nilo Campos Júnior, Leonel Teixeira Júnior, Leonardo Perim

3 - A branch and cut approach for location planning of electric vehicle recharging infrastructure

Paul Göpfert, Stefan Bock

4 - A capacitated directed cycle hub location problem under congestion and uncertainty

Cihan Butun, Sanja Petrovic, Luc Muyldermans

### **■** TB-04

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S104

## Investments and Asset Allocations: Methods and Applications

Stream: New Challenges in Investment Strategies,

Risk and Financial Modelling Chair: Anna Maria D'Arcangelis

- 1 Multivariate count processes analysis of defaults Ana Escribano, Mario Maggi
- 2 Optimal investment and deferred annuity choice with inflation and labour income risks

Chul Jang, Andrew Clare, Iqbal Owadally

3 - Intertemporal analysis of mutual funds investing in European stocks: the analysis of herding through centrality measures

Giulia Rotundo, Anna Maria D'Arcangelis

#### **■ TB-05**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S105

## **Vehicle Routing under Uncertainty**

Stream: Vehicle Routing and Logistics Optimization I Chair: Epaminondas Kyriakidis

1 - Algorithm for vehicle routing problem under uncertainty

Shuichi Isomura, Tomoki Fukuba, Takayuki Shiina

2 - The vehicle routing problem with dynamic occasional drivers - a multistage formulation

Lars Dahle, Henrik Andersson, Marielle Christiansen, Lars Magnus Hvattum

 3 - A mean-variance objective for robust vehicle routing problem with uncertain demands

Marcella Bernardo, Jürgen Pannek

4 - A stochastic vehicle routing problem for the collection of two similar products

Epaminondas Kyriakidis, Constantinos Karamatsoukis, Theodosis Dimitrakos

## **■ TB-06**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S106

#### Store Management

Stream: Demand and Supply Management in Retail

and Consumer Goods Chair: Youssef Boulaksil 1 - Vertical integration of distribution and inventory management with pooling

Florian Arnold, Kenneth Sörensen, Johan Springael

2 - Solving the backroom layout problem in grocery stores

Maria Pires

- 3 An optimization approach for product allocation with integrated shelf space dimensioning in retail stores Alexander Hübner, Kai Schaal, Tobias Düsterhöft
- 4 Optimal cash rationing strategies for a two-product, cash constrained retailer's inventory system under stochastic demand

Youssef Boulaksil

#### ■ TB-07

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S107

## **Applications in Industrial Engineering**

Stream: Analytic Hierarchy Process / Analytic Network

**Process** 

Chair: Gülin Feryal Can Chair: Pelin Toktaş

 Selecting the best contractor company for a defense project by using AHP

Nurdinç Şenay, Muharrem Tasyurek

2 - A novel two stages intutitonistic fuzzy approach proposal based on ANP and matehematical modelling for risk assessment

Yelda Yener, Gülin Feryal Can

 AHP based KEMIRA approach for shopping mall selection

Pelin Toktaş, Gülin Feryal Can

4 - An integrated intuitionistic fuzzy approach based on AHP and MIACRA: an application for bevarage manufacturing

Gülin Feryal Can, Kumru Atalay

#### **■ TB-08**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S108

#### Combinatorial Optimization on Graphs II

Stream: Combinatorial Optimization I

Chair: Raffaele Cerulli

Heuristic algorithms for the strong generalized minimum label spanning tree

Andrea Raiconi, Carmine Cerrone, Ciriaco D'Ambrosio

2 - On the single door cross-docking problem Marcello Sammarra, Manlio Gaudioso, M. Flavia Monaco

3 - A GRASP for the supervised learning minimum cost SAT problem

Giovanni Felici, Paola Festa, Tommaso Pastore, Daniele Ferone, Antonio Napoletano 4 - Optimizing the investments in mobile networks and subscriber migrations for a telecommunication operator

Adrien Cambier, Michael Poss, Rosa Maria Figueiredo, Matthieu Chardy, Adam Ouorou

## **■** TB-09

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S109

### The Role of Data Science in Optimization

Stream: European Working Group: Data Science

Meets Optimization

Chair: Patrick De Causmaecker

A data-driven model for routing mobile medical facilities

Sibel Salman, Burcin Bozkaya, Eda Yücel, Cemre Gokalp

2 - Constraint learning using tensor (COUNT) Mohit Kumar, Luc De Raedt, Stefano Teso

- 3 Value of product location information in agrifood logistics decision making: a multi-level perspective Viet Nguyen, Jacqueline Bloemhof
- 4 Data, information, knowledge and optimisation. Patrick De Causmaecker

#### **■** TB-10

 $Tuesday,\ 10:30\text{-}12:00\ -\ SOUTH\ BUILDING\ UV\ S110$ 

#### **Decision Aiding Methods VI**

Stream: Multiple Criteria Decision Aiding

Chair: Samira El Gibari

- 1 Optimality and boundedness in interval linear programming: complexity and characterization Elif Garajová, Milan Hladik, Miroslav Rada
- 2 A novel FMEA model for machine tool risk analysis James Liou, Huai-Wei Lo, Yen-Ching Chuang
- 3 Sigma-Mu efficiency analysis: a new methodology for evaluating units through composite indices Menelaos Tasiou, Salvatore Greco, Alessio Ishizaka, Gianpiero Torrisi
- 4 A comparison of the MRP-WES method with other MCDM methods based synthetic indicators.

Samira El Gibari, Francisco Ruiz, Jose Manuel Cabello, Trinidad Gomez

#### **■** TB-11

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S111

#### **Customer Relationship Management**

Stream: Business Analytics

Chair: Dries Benoit

1 - Integrating textual information in customer churn prediction models: a deep learning approach Arno De Caigny, Kristof Coussement, Koen W. De Bock,

Stefan Lessmann

2 - Time series classification for early churn prediction in dynamic networks

Tine Van Calster, María Óskarsdóttir, Bart Baesens, Wilfried Lemahieu

- 3 Paradoxes of the retention reaction curve  $\mathit{Igor\ Sloev}$
- 4 Social ties in customer referral programs Iris Roelens, Philippe Baecke, Dries Benoit

## **■ TB-12**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S112

## Fuzzy Sets Theory in MCDA

Stream: Fuzzy Optimization

Chair: Kurt Nielsen

 Techniques to model uncertain input data of multicriteria decision making problems: a literature review

Sarah Ben Amor, Renata Pelissari, Maria Celia de Oliveira, Alvaro Abackerli

- 2 Using Fuzzy-DEMATEL method to explore decisive factors in after market of auto lighting industry Jing Li, Chi-Hui Wu, Ching-Torng Lin, Jian-Ke Huang
- 3 Risk assessment of pharmaceutical product distribution using intuitionistic fuzzy FMEA and TOPSIS model

Shahrzad Faghih Roohi, Alp Akcay, Yingqian Zhang, Eelco de Jong

4 - Multi-attribute procurement auctions with fuzzy attributes

Kurt Nielsen

#### **■** TB-13

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S201

#### Algorithms in Continuous Optimization

Stream: Applications Related to Continuous Optimiza-

Chair: Juan Carlos Cortés

- 1 Complexity of an inexact restoration method Luis Felipe Bueno, José Mario Martínez
- 2 Efficient alternating minimization methods for variational edge-weighted colorization models with sphere constraints

Maryam Yashtini

3 - Application of novelty search to the particle swarm optimization algorithm

Juan Carlos Cortés, David Martínez-Rodríguez, Clara Burgos-Simon, José-Ignacio Hidalgo, Rafael-J. Villanueva

## **■** TB-14

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S202

### **Sparse Optimisation with Applications**

Stream: Nonlinear Programming: Methods

Chair: Xiaoqi Yang

- Restricted eigenvalue conditions and recovery bounds of I\_q regularization problems Xiaoqi Yang
- 2 Lower-order regularization method for group sparse optimization with applications in systems biology Yaohua Hu, Chong Li, Kaiwen Meng, Jing Qin, Xiaoqi Yang
- 3 On the binary Eisenberg-Noe model and its extension

Yu-Hong Dai

4 - Balance analysis of sparsity and robustness for portfolio adjustment problem

Fengmin Xu

## **■ TB-15**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S203

## Real-Life Vehicle Routing I

Stream: Vehicle Routing and Logistics Optimization II Chair: Kemal Kaya

- 1 Integrated vehicle and pollster routing Sandra Gutierrez, Luis Torres, Diego Recalde, Ramiro Torres, Pablo Zuleta, Andrés Miniguano
- 2 Ambulance routing under nuclear facility disaster Gyu M. Lee
- 3 Vehicle routing with an endogenous learning effect: an application to offshore plug and abandonment campaign planning

Steffen Bakker

4 - A rich vehicle routing problem involving split deliveries, heterogeneous fleet, and outsourcing option Kemal Kaya, Gultekin Kuyzu, Salih Tekin

#### **■ TB-16**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S115

#### **Maritime logistics**

Stream: Green Logistics Chair: Harilaos Psaraftis Optimal choice of speed reduction ports for shipping liners

Shuaian Wang

2 - A game theoretic approach to improve compliance to sulphur regulations

Thalis Zis

- 3 Real-time schedule recovery in liner shipping service with regular uncertainties and disruption events Chen Li
- 4 The profit maximizing liner shipping problem with flexible frequencies: balancing economic and environmental performance

Harilaos Psaraftis, Massimo Giovannini

#### **■** TB-17

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S205

## **Applications of Stochastic Optimization**

Stream: Stochastic and Robust Optimization

Chair: Patrizia Beraldi

 Stochastic optimization of simulation models: management of scarce water resources under risk and uncertainty

Alexei Gaivoronski, Giovanni Sechi, Jacopo Napolitano, Paola Zuddas

2 - The capacitated supplier selection problem with total quantity discount and activation costs under demand uncertainty: exact and approximate approaches

Daniele Manerba, Guido Perboli

- 3 A stochastic optimization model for healthcare facility network design in a disaster environment Muge Acar, Onur Kaya
- 4 Risk averse management of virtual power plants using stochastic programming

Patrizia Beraldi, Maria Elena Bruni, Antonio Violi, Gianluca Carrozzino

#### **■** TB-18

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S206

## Theoretical Developments in Problem Structuring Methods

Stream: Soft OR, Problem Structuring Methods Chair: Leroy White

- Constructing problems and choosing methodologies for complex decision contexts
   John Mingers
- 2 Systemic risk analysis: analytical support to identify priorities from causal risk maps

Susan Howick, Colin Eden, Igor Pyrko

3 - Integrating problem structuring methods and concept-knowledge theory for enabling collective decision-making process for policy design: some hints from Cyprus case study

Irene Pluchinotta, Raffaele Giordano, Dimitrios Zicos, Tobias Krueger, Alexis Tsoukias

4 - Strong RLT1 bounds from decomposable Lagrangean relaxation for some quadratic 0-1 optimization problems with linear constraints

Monique Guignard-Spielberg, Jongwoo Park

### **■** TB-19

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S207

### Vector and Set-Valued Optimization VI

Stream: Vector- and Set-Valued Optimization Chair: *Elena Molho* 

1 - Metric subregularity of the diagonal subdifferential operator and applications

Rita Pini, Monica Bianchi, Gabor Kassay

- 2 Limit vector variational inequality problems Monica Bianchi, Igor Konnov, Rita Pini
- 3 Some duality results in set optimization with applications

Elena Molho, Elisa Caprari, Lorenzo Cerboni Baiardi

4 - Primal worst and dual best in robust vector optimization

Elisa Caprari, Elena Molho, Lorenzo Cerboni Baiardi

#### **■** TB-20

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S301

## **Decision Analysis Applications II**

Stream: Decision Analysis and Decision Support Systems

Chair: Miguel Martínez-Panero

The effects of operations analysis on the 5th generation aircraft design

Muharrem Tasyurek, Nurdinç Şenay

- 2 When is information sufficient for action? Search with unreliable yet informative intelligence Moshe Kress
- 3 Multi-criteria ABC inventory classification using AHP method

Makram Ben Jeddou

**4 - Communities of interest and the districting problem** *Miguel Martínez-Panero, Verónica Arredondo, Teresa Peña, Federica Ricca* 

#### **■** TB-21

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S303

#### **Convex Optimization**

Stream: Convex, Semi-Infinite and Semidefinite Optimization

Chaim Aani

Chair: Agnieszka Prusińska

1 - Copositive approach to adjustable robust optimization

Markus Gabl

2 - A new fuzzy programming approach to solve bi-level decentralized multi-objective linear fractional programming problem

Tunjo Perić, Tihomir Hunjak

3 - Separable cubic model for solving smooth largescale unconstrained minimization problems

Carmo Bras, José Mario Martínez, Marcos Raydan

 4 - Implicit function and tangent cone theorems for singular inclusions. Applications to nonlinear programming

Agnieszka Prusińska, Ewa Bednarczuk, Alexey Tretyakov

#### **■ TB-22**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S304

## Many-Objective Optimization

Stream: Multiobjective Optimization

Chair: Joao Duro Chair: Robin Purshouse

1 - Extreme point guided PICEA-g for nadir point estimation in many-objective optimization

Rui Wang, Jianmai Shi

 Machine learning analysis of solutions generated by many-objective Pareto local search

Andrzej Jaszkiewicz

3 - Multi-objective optimization for distributed design of complex systems

Joao Duro

Toolkit for benchmarking multiobjective robust optimization algorithms

Shaul Salomon, Robin Purshouse

#### **■ TB-23**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S305

## Simulation in Management Accounting and Control

Stream: Agent-Based Simulation in Business and Eco-

nomics

Chair: Stephan Leitner

1 - Cooperative behavior of Q-learning agents in a repeated Cournot oligopoly game

Christian Mitsch

- 2 Analyzing the supplier structure in a buyer-supplier model over time: an agent-based model Kristian Strmenik
- 3 Utility maximization under model uncertainty Ariel Neufeld
- 4 An agent-based variant of the hidden-action problem: on the economics of reciprocity Stephan Leitner, Friederike Wall

## **■** TB-24

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S306

### **Optimal Control**

Stream: Optimal Control Chair: Stefan Wrzaczek

- 1 Gradient methods on strongly convex feasible sets and optimal control of affine systems Vladimir Veliov
- 2 A sequential decision process with stochastic action

Adam Narkiewicz

- W-3 - Optimal control of a continuous-time configuration assemble-to-order system Mohsen Elhafsi, Jianxin Fang, Herve Camus
- 4 Using vintage structure for a multi-stage optimal control model with random switching time Stefan Wrzaczek, Ivan Frankovic, Michael Kuhn

#### **■ TB-25**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S307

## **Districting Problems: Models and Applications**

Stream: Combinatorial Optimization II

Chair: Ozgur Ozpeynirci

1 - Mathematical model and grasp for the districting problem in home health care services in a rapidgrowing Colombian city

Juan G. Villegas, Sebastian Cortes Zapata, Elena Valentina Gutierrez, Juan D. Palacio

2 - Political districting in Turkey: a proposal for more fair representation

Ozgur Ozpeynirci, Hayri Onal, Enver Yakın

3 - Mathematical model for a taxi-carsharing service Aleksandra Panyukova, Valentina Dudareva

## **■ TB-26**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S308

## **Recovery and Congestion in Public Transportation Systems**

Stream: Public Transportation I

Chair: Esteve Codina

1 - A routes-based heuristic for real-time railway traffic management problem

Ricardo Garcia-Rodenas, Maria Luz Lopez, Luis Cadarso

2 - Energy consumption and passenger compensation policy in disruption management from a microscopic point of view

Luis Cadarso, Ricardo Garcia-Rodenas

3 - Effects of introducing a control delay in real-time railway traffic management

Sofie Van Thielen, Francesco Corman, Pieter Vansteenwegen

4 - A transit network planning model integrating reliability and recoverability aspects

Esteve Codina, Francisca Rosell, Luis Cadarso

#### ■ TB-27

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S309

### Capacity Planning

Stream: Production, Service and Supply Chain Management

Chair: Justus Arne Schwarz

1 - Optimal supply contract for new product development with risk consideration

Guoqing Zhang, Shiping Zhu

- 2 Combined effects of price, process flexibility and modularity for reducing supply-demand mismatch Nishant K Verma
- 3 An integrated production scheduling and workforce capacity planning model and analyses for maintenance repair operations in the airline industry Fatma Sedanur Ozturk, Kadir Ertogral
- 4 Analyzing the impact of finite capacity on sales and operations planning for product rollovers

Justus Arne Schwarz, Baris Tan

#### ■ TB-28

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S310

#### Service systems

Stream: Service Operations Management

Chair: Oualid Jouini

- 1 Simulation analytics for emergency medical services Yong-Hong Kuo, Janny Leung, Colin Graham
- 2 Early registration of patients: an empirical investigation of scheduling of emergency surgery rooms Santamaria-Acevedo Gustavo, Oualid Jouini, Benjamin Legros, Zied Jemai

3 - A hybrid approach based on MACTOR and 2-tuple fuzzy linguistic representation for the analysis of the energy service company market

Ozgur Yanmaz, Cigdem Kadaifci, Umut Asan

4 - A simulation-based method for shift scheduling in multi-channel contact centers

Siqiao Li, Ger Koole, Oualid Jouini

## **■ TB-29**

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S311

## **Solutions in Cooperative Game Theory**

Stream: Game Theory, Solutions and Structures

Chair: Juan Vidal-Puga

 Bankruptcy with a variable number of agents and priorities

Miguel Ginés-Vilar

2 - Allocating the costs of cleaning a river: estimating responsibilities versus incentive compatibility Gómez-Rúa María, Jorge Alcalde-Unzu, Elena Molis

3 - A panting rule in minimum cost spanning tree problems with multiple sources

Adriana Navarro Ramos, Gustavo Bergantinos

4 - One-way and two-way cost allocation in hub network problems

Juan Vidal-Puga, Gustavo Bergantinos

#### **■** TB-30

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S312

#### **Operations Research Games II**

Stream: Game Theory and Operations Management Chair: Ana Meca

1 - On sequencing situations with exponential and logarithmic cost functions

Alejandro Saavedra-Nieves, Peter Borm, Jop Schouten

- 2 The effect of regulation and uncertainty on the investment incentives in the broadband market Soumaya Amassaghrou
- 3 Dynamic pricing, local and national advertising decisions in a supply chain under different leadership roles

Anshuman Chutani, Suresh Sethi

4 - Multiple corporation tax games: the role of dual and irreplaceable benefactors

Antonio José Mayor Serra, Ana Meca, Jose A. Garcia-martinez

#### **■** TB-31

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S313

#### **Behavioural Impacts in OR Practice**

Stream: Behavioural OR

Chair: Judit Lienert

- A diagnostic approach to improve the design and evaluation of decision support interventions Lisa Scholten
- 2 Effects of or applications and characteristics of or practitioners: an empirical study

  Violeta Cvetkoska
- 3 How does literacy, decision style and loss aversion influence end-users' choice of electricity dynamic tariffs in a smart grid context?

Marta Lopes, Inês Reis, Carlos Henggeler Antunes

4 - To aggregate or disaggregate? Experience from stakeholder interviews with two preference elicitation philosophies (SWING-weighting, UTA-GMS)

Judit Lienert, Jun Zheng

### **■** TB-32

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S314

## **Multimodal Transportation**

Stream: Routing, Logistics, Location and Transporta-

tion

Chair: Kris Braekers

- 1 Dynamic multimodal freight routing using a cosimulation optimization approach Maged Dessouky
- 2 Integrating local drayage and network flow planning in intermodal transport

Hilde Heggen, An Caris, Kris Braekers

- 3 Revenue-driven operational planning: sea-rail multimodal freight transportation vs road transportation Aysun Mutlu, Yaşanur Kayıkçı, Bülent Çatay
- 4 Intermodal terminal selection and its effect on preand end-haulage costs

Kris Braekers, Hilde Heggen, Noah Crauwels

#### **■** TB-33

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S315

#### Data Mining and Statistics V

Stream: Data Mining and Statistics

Chair: Emilio Carrizosa

1 - Spatio-temporal clustering and sampling with continuous density-based distance weights

Antonia Gieschen, Jake Ansell, Belen Martin-Barragan, Raffaella Calabrese

2 - Probabilistic inference and evidence-based decision making with incomplete data

Jian-Bo Yang, Dong-Ling Xu

3 - Pattern analysis methods based on sorting algorithms

Alexey Myachin

4 - Evidential reasoning rule for sequential machine learning - an application to fault detection

Dong-Ling Xu, Jian-Bo Yang

## **■** TB-34

Tuesday, 10:30-12:00 - SOUTH BUILDING UV S113

# Advances in Sustainable Supply Chain Dynamics

Stream: Sustainable Supply Chains

Chair: Uğurcan Özden

Cyber-physical system application for sustainable supply chain management

Valentas Gruzauskas, Edita Gimzauskienė

2 - Government's optimal inter-temporal subsidy in the presence of uncertain cost reduction and strategic consumers

Weichun Chen, Benny Mantin, Bo Li

- 3 Exploring pricing and incentivisation policies in the management of a closed loop supply chain Brian Dangerfield
- 4 A blockchain platform for raw material stock optimization

Uğurcan Özden, Y. Ilker Topcu

## **■ TB-48**

Tuesday, 10:30-12:00 - 4D UPV B.3

#### **Post-Disaster Relief Problems**

Stream: Humanitarian Operations

Chair: Andréa Cynthia Santos

1 - An overview of the supply chain logistics with a limited autonomy vehicle problem

Ana Flavia Macambira, Pedro Henrique González, Hugo Barbalho, Luidi Simonetti

2 - Models and algorithms for emergency road accessibility after major earthquakes

Celso Satoshi Sakuraba, Andréa Cynthia Santos, Christian Prins

3 - Heuristics for last-mile distribution in case of largescale earthquake

Andréa Cynthia Santos, Puca Huachi Penna, Christian Prins

#### **■** TB-49

Tuesday, 10:30-12:00 - 4D UPV B.4

#### OR in Agriculture III

Stream: OR in Agriculture, Forestry and Fisheries

Chair: LluisM Pla

1 - Improving harvesting operations in an oil palm plantation

Daniel Castillo-Gómez, Mariana Escallon, Jorge Leal, Andres Medaglia, Carlos Montenegro

- 2 Postharvest quality characteristics according to harvest time of strawberry 'Seolhyang' grown in Korea SaeJin Hong, YoungRog Yeoung, Seong-Jun Kim, Jeong Hee Choi
- 3 Design of silicon pads in the forced-air cooling treatment for harvested strawberries

Seong-Jun Kim, SaeJin Hong, Jeong Hee Choi

4 - Supporting fresh fruit purchase and storage decisions through a system based on a mixed integer programming model

Wladimir E. Soto-Silva, Marcela C. Gonzalez-Araya, LluisM

#### **■** TB-50

Tuesday, 10:30-12:00 - 4D UPV 1.1

# Modeling Tools for Energy and Sustainable Policy I

Stream: Long-term Planning in Energy, Environment and Climate

Chair: Sandrine Selosse

 In decarbonizing the European electric sector - the role of interconnections

Seyram Siggini, Jerôme Gutierrez, Sophie Demassey, Edi Assoumou

2 - Benefits of energy storage and transmission switching in power systems with high renewable energy penetration

Meltem Peker, Ayse Selin Kocaman, Bahar Yetis Kara

- 3 An optimization model for carbon capture & storage/utilization vs. carbon trading and its application Semra Agrali, F. Gorkem Uctug, Burcin Atilgan Turkmen
- 4 The influence of carbon storage and biomass potentials in the future development of bioenergy with carbone capture and storage

Sandrine Selosse

## **■** TB-51

Tuesday, 10:30-12:00 - 4D UPV 1.2

## Modelling Challenges in Energy Systems Analysis

Stream: Environmental Sustainability in Supply Chains Chair: Mel Devine

1 - Solving problems with equilibrium constraints with an application to energy markets

Sauleh Siddiqui

- 2 An augmented Lagrangian approach for solving the optimal generator placement problem in a transmission grid with a high share of renewable energies Viktor Slednev, Manuel Ruppert, Valentin Bertsch, Wolf Fichtner
- 3 Justification for the use of a dynamic gas flow formu-

Andreas Belderbos, Erik Delarue

4 - Modelling the impact of demand response on different electricity markets: results and issues Mel Devine, Valentin Bertsch

## **■ TB-52**

Tuesday, 10:30-12:00 - 4D UPV 1.3

### **Healthy Diets**

Stream: OR for Health and Care I

Chair: J.c. Gerdessen

1 - A mathematical model to establish an optimal diet in Spain following Mediterranean standards

Monica Hernandez, Trinidad Gomez, Laura Delgado Antequera, Rafael Caballero

- 2 Diet optimization for vulnerable groups in Ecuador Fernanda Salazar, Sandra Gutierrez
- 3 Recommending healthy meal plans using a manyobjective optimization approach

Cumali Türkmenoğlu, A. Sima Etaner-Uyar, Berna Kiraz

4 - Synergy between OR and nutrition research: decision-making in dietary assessment and advice J.c. Gerdessen, G.D.H. (Frits) Claassen, Jack van der Vorst, Pieter van 't Veer

#### **■** TB-53

Tuesday, 10:30-12:00 - 4D UPV 1.4

#### Big Data, Social Media, and Personal Data

Stream: Operations/Marketing Interface

Chair: José P. Garcia-Sabater

1 - Big data vs small data: consumer profiling with data requirements

Jiahua Wu

2 - Economics of free mobile applications: personal

Vincent Lefrere

3 - STEM and teens: an algorithm bias on a social media Clara Jean

4 - Distributed programming production planning with a shared capacity coordinated by a Lagrangian relaxation model on a rolling horizon

Gregorio Rius-sorolla, Julien Maheut, José P. Garcia-Sabater

#### ■ TB-54

Tuesday, 10:30-12:00 - 4D UPV 1.6

## **Sport Strategy Optimization**

Stream: OR in Sports Chair: Susanne Hoffmeister

1 - Optimizing a golfer's strategy with MDPs Matthieu Guillot, Gautier Stauffer

2 - Optimizing strategic substitution in soccer Jörg Rambau, Rónán Rian Carl Richter

3 - Decision-making in sport's annual planning Sarka Krizkova, Martin Gavalec

4 - Markov decision processes for sport strategy optimization

Susanne Hoffmeister, Jörg Rambau

## ■ TB-55

Tuesday, 10:30-12:00 - 4D UPV 2.1

#### Lost in Translation

Stream: Making an Impact I Chair: Joaquim Gromicho

1 - Lost in translation: expectations and misconceptions

Joaquim Gromicho

## **■ TB-56**

Tuesday, 10:30-12:00 - 4D UPV 2.2

## Optimization in Renewable and Energy Systems I

Stream: Optimization in Renewable Energy Systems Chair: Ayşe Mutlu Derya

1 - Cost effective electrical public transport network de-

Jeroen Vester, Shadi Sharif Azadeh

2 - Common effluent treatment plants locations allocation modelling in an industrial cluster

Saurabh Chandra, Manish Sarkhel

3 - Short-term wind speed prediction using multivariable dense data for optimum micro-grid operations Tansu Filik, Ümmühan Başaran Filik

4 - Electromagnetic field optimization for Turkey's transportation energy demand estimation

Alkin Yurtkuran, İlker Kucukoglu

### **■** TB-57

Tuesday, 10:30-12:00 - 4D UPV 2.3

### **Software for Mixed-Integer Optimization I**

Stream: Software for Optimization

Chair: Gregor Hendel

1 - On signed symmetries in MILP Imre Polik, Philipp Christophel

2 - How to fold a linear program

Timo Berthold, Qi Huangfu, Michael Perregaard

3 - Gurobi 8.0 - what's new

Michael Winkler

4 - More performance with the new generic callback in CPLEX 12.8

Xavier Nodet

## **■ TB-58**

Tuesday, 10:30-12:00 - 4D UPV 2.4

## **Topics on Education**

Stream: OR Education Chair: *Joao Miranda* 

 Evaluating the potential trade-off between students' satisfaction and school performance using multiobjective programming

Sandra González Gallardo, Oscar David Marcenaro Gutierrez, Mariano Luque

2 - Predicting job selection based on departmental courses by using clustering and adaptive regression methodologies

Ayşe Kuyrukçu, Fatma Yerlikaya Özkurt

3 - Training schools and supply chain stakeholders for medicines shortages (cost action CA15105)

Joao Miranda, Sarah Ben Amor

Study on optimization of charge of quarters scheduling in military academy

Minsu Kim

### **■** TB-59

Tuesday, 10:30-12:00 - 4D UPV 2.5

## Integrating Renewable Energy Resources into Power Systems

Stream: Technical and Financial Aspects of Energy

**Problems** 

Chair: Raquel García-Bertrand

 1 - Inertia changes in power systems with high wind power plant integration. An overview of frequency analysis challenges

Ana Fernandez-Guillamon, Angel Molina-Garcia, Antonio Vigueras-Rodriguez

2 - Spot market, futures and risk management in the integration of renewable resources

Carlos Ruiz, Paolo Falbo

3 - Optimizing storage allocation and investment for transmission constrained networks considering losses and high renewable penetration Sonja Wogrin, Diego Tejada, Dean Yacar

4 - Robust transmission network expansion planning under correlated uncertainty

Raquel García-Bertrand, Cristina Roldán, Roberto Mínguez, José Manuel Arroyo

## **■ TB-60**

Tuesday, 10:30-12:00 - 4D UPV B.5

#### **EURO Excellence in Practice Award II**

Stream: EURO Special Sessions

Chair: Ulrich Dorndorf

1 - The OR revolution in Vattenfall BA Wind Martina Fischetti, Jesper Runge Kristoffersen, Michele

Monaci, David Pisinger

2 - Blending systems thinking approaches for organisational analysis: reviewing child protection in England David Lane, Eileen Munro, Elke Husemann

3 - An efficient algorithm for milk transport logistic optimization developed for the dairy industry enterprise Zott SE & Co. KG

Sascha Wörz, Michael Schmid, Heinz Bernhardt

## Tuesday, 12:30-14:00

#### **■ TC-01**

Tuesday, 12:30-14:00 - UPV Nexus

#### MINLP and the cost of interpretability in **Data Science**

Stream: Keynotes Chair: Emilio Carrizosa

1 - MINLP and the cost of interpretability in Data Science **Dolores Romero Morales** 

## **■ TC-02**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S101

#### **DEA** in Education

Stream: DEA: Applications

Chair: Nabil Amara

- 1 Assessing the education frontiers in Vietnam Minh Hanh Le, Heinz Ahn
- 2 Benchmarking in higher education using data envelopment analysis and the Bologna process data Kazim Baris Atici, Aydin Ulucan, Akin Ozkan
- 3 Measuring academic research efficiency: a comparison of results from parametric and nonparametric methods

Nabil Amara, Nizar Souiden, Mehdi Rhaiem

4 - Evaluation of disaster management system: a case study of earthquake performance in Turkey Erdem Aksakal, Ufuk Altınsoy

## **■ TC-03**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S103

## Facility Location and Sustainability

Stream: Location Analysis and Optimization Chair: Glaydston Ribeiro

1 - Compromise programming for closed loop supply chain networks

Said Salhi, Chandra Irawan, Muhammad Abdulrahman

2 - Solving a bi-objective facility location problem in the presence of uncertainty

Najmesadat Nazemi, Sophie Parragh

3 - Ambulance simulation package Samuel Ridler, Andrew J Mason, Andrea Raith 4 - Literature review of facility location and environmental issues

Vanessa de Almeida Guimarães, Glaydston Ribeiro

#### ■ TC-04

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S104

### Dynamic Asset allocation

Stream: New Challenges in Investment Strategies,

Risk and Financial Modelling

Chair: Roy Cerqueti Chair: Mario Maggi

1 - Networks and market-based measures of systemic risk: the global banking system in the aftermath of the financial crisis

Chiara Pederzoli, Gian Paolo Clemente, Rosanna Grassi

- 2 Optimal investment strategies with stochastic interest rate and minimum performance constraint Daniele Marazzina
- 3 Discounting of mean reverting cash flows Henrik Andersson
- 4 A beta decomposition to set up a low beA asset allocation strategy

Mario Maggi, Antonio Amendola, Dennis Montagna

#### ■ TC-05

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S105

### **Pickup and Delivery Problems**

Stream: Vehicle Routing and Logistics Optimization I Chair: Cristiam Gil

1 - An exact formulation for the one-to-one pickup and delivery problem with divisible split ups Bolor Jargalsaikhan, Ward Romeijnders, Kees Jan

Roodbergen

2 - Order first cluster second algorithm for pick up and delivery problem

Tejas Ghorpade, Narayan Rangaraj

3 - A two-compartment single vehicle routing problem with simultaneous pickups and deliveries, stochastic demands and predefined customer order

Constantinos Karamatsoukis, Roza Zakar, Epaminondas Kyriakidis, Theodosis Dimitrakos

4 - A column-generation based model to pickup and delivery problem with transfers

Cristiam Gil

#### ■ TC-06

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S106

#### Retail Distribution Planning II

Stream: Demand and Supply Management in Retail

and Consumer Goods Chair: Thomas Archibald

1 - Solving the integrated order picking and vehicle routing problem with order batching and delivery time windows

Daniel Schubert, Heinrich Kuhn, Andreas Holzapfel

2 - Collaborative load plan design in the retail market: the pickup hub and delivery problem

Axel Grimault, Yun He, Fabien Lehuédé, Juliette Medina, Olivier Péton

 Integrating consumer preferences and shelf life data in urban e-grocery logistics planning

Christian Fikar, Andreas Mild, Martin Waitz

4 - Designing effective proactive transshipments in retail networks

Thomas Archibald, Kevin Glazebrook, Sandra Rauscher

## **■ TC-07**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S107

## **Timetabling under Capacity Constraints**

Stream: Public Transportation II

Chair: Nikola Besinovic

1 - Integrated micro-macro railway timetable

Miguel Angel Ruiz Sanchez, Ángel Marín, Luis Cadarso, Esteve Codina

2 - Periodic timetabling with limited infrastructure ca-

Sebastian Albert, Soumya Dutta, Julius Pätzold, Narayan Rangaraj

 3 - A mathematical model for timetabling problem in railway transportation

Fatih Bahar, Lale Ozbakir, Pınar Tapkan, Sinem Kulluk, M. Burak Telcioglu

4 - A new flexible headway model for designing operationally feasible railway timetables

Nikola Besinovic

#### **■ TC-08**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S108

### Applications in Industry and Services I

Stream: Combinatorial Optimization I Chair: José Fernando Oliveira

4 A dynamic IRR commont for the executive

1 - A dynamic IRP approach for the smart waste collection problem

Tania Ramos, Carolina Soares de Morais, Ana Barbosa-Povoa

- 2 A heuristic approach to dispatch and conflict-free routing problem of capacitated vehicles for container transfers and relocations in a warehouse setting Emmanouil Thanos, Tony Wauters, Greet Vanden Berghe
- 3 Cruise itineraries optimal scheduling Gianni Di Pillo, Stefano Lucidi, Renato Mari, Massimo Roma

4 - Integrating capacity and pricing under uncertainty in the car rental business

José Fernando Oliveira, Beatriz Brito Oliveira, Maria Antónia Carravilla, Alysson Costa

#### **■ TC-09**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S109

#### **Matheuristics**

Stream: Matheuristics Chair: Tony Wauters

1 - A matheuristic improvement procedure for the Euclidean travelling salesman problem

Peter Greistorfer, Moritz Kettele, Rostislav Staněk

2 - A matheuristic approach for forming, scheduling and routing field service teams with prioritized multi-skill tasks

Seray Çakırgil, Eda Yücel, Gultekin Kuyzu

3 - Two decomposition strategies for a constructive matheuristic applied on shift minimization personnel task scheduling problem

Reshma Chirayil Chandrasekharan, Pieter Smet, Tony Wauters

4 - A math-heuristic approach for the bus driver scheduling problem for a company in Bogotá-Colombia

Juan Castillo

### **■ TC-10**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S110

### **Decision Aiding Methods VII**

Stream: Multiple Criteria Decision Aiding

Chair: Salvatore Greco

1 - On generating utility functions in stochastic multicriteria acceptability analysis (SMAA)

Luis C. Dias, Rudolf Vetschera

2 - SURE: a method for decision-making under uncertainty

Richard Hodgett, Sajid Siraj

3 - Multiple criteria hierarchy process and stochastic analysis for a nominal classification method based on similarity and dissimilarity

Ana Sara Costa, Salvatore Corrente, Salvatore Greco, José Rui Figueira, José Borbinha

 4 - Robust ordinal regression and stochastic multicriteria acceptability analysis for the level dependent Choquet integral

Salvatore Greco, Sally Giuseppe Arcidiacono, Salvatore Corrente

#### **■ TC-11**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S111

## Fraud Analytics

Stream: Business Analytics

Chair: Cristian Bravo

1 - Accounting fraud analytics for effective corporate regulation

Maria Jofre

Including fine-grained features in customs fraud detection

Jellis Vanhoeyveld, David Martens, Bruno Peeters

3 - From one-class to two-class classification by incorporating expert knowledge

Dieter Oosterlinck, Dries Benoit, Philippe Baecke

 4 - A text analytics-based decision support system for detecting fraudulent car insurance claims

Cristian Bravo, Andres Medina, Rodrigo Joannon, Richard Weber

### **■ TC-12**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S112

### **Maritime Transportation**

Stream: Maritime Transportation

Chair: Yauheni Kisialiou

 Integrating fleet deployment into liner shippingvessel repositioning

Kevin Tierney, Daniel Wetzel

2 - The effects of the ultra large container ship on port choice and call size

Nemanja Milovanovic

3 - Contracting in ocean shipping market with empty container repositioning under asymmetric information

Mingzhu Yu, Ruina Yang, Chung-Yee Lee

4 - Robust supply vessel planning under weather and demand uncertainty

Yauheni Kisialiou, Irina Gribkovskaia

#### **■** TC-13

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S201

## Financial Literacy and Investment Choices

Stream: Financial Modeling, Risk Management and Managerial Accounting

Chair: Rosella Castellano

1 - Money's importance from the religious perspective Claudiu Herteliu, Ionel Jianu, Iulia Jianu, Catalin Vasile Bobb, Gurjeet Dhesi, Marcel Ausloos

2 - Financial literacy: systematic literature review and future research agenda

Sebastian Ion Ceptureanu

3 - The explanatory power of financial literacy on consumer financial behaviors: new evidences from Europe

Gianni Nicolini, Marlene Haupt

4 - What if versus probabilistic financial investment scenarios: a behavioural and physiological investigation Rosella Castellano, Gaetano Tieri, Giorgia Ponsi, Marco Mancinelli

## **■ TC-14**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S202

## Optimization Algorithms on Riemannian manifolds

Stream: Nonlinear Programming: Methods

Chair: *Orizon P Ferreira* Chair: *Chong Li* 

 A two-phase proximal-like algorithm in domains of positivity

Paulo Oliveira

2 - Some tools in geometric optimization Genaro Lopez

Newton's method for semismooth vector field on Riemannian manifolds

Orizon P Ferreira, Fabiana R. de Oliveira

 4 - Proximal point method for locally Lipschitz functions in multiobjective optimization on Hadamard manifolds

Glaydston Bento, João Xavier da Cruz Neto, Lucas Vidal

## **■ TC-15**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S203

### Real-Life Vehicle Routing II

Stream: Vehicle Routing and Logistics Optimization II Chair: Ramin Raeesi

1 - The 3L-VRPTW with advanced real-world loading constraints

Corinna Krebs, Henriette Koch, Andreas Bortfeldt

2 - Integrated routing and scheduling of salt trucks with replenishment in urban areas

Sorour Zehtabiyan, Gultekin Kuyzu, Eda Yücel

3 - An optimization model for the raw material pick-up process of a CGC through VRP

Lara Kasirga, Y. Ilker Topcu

4 - The robust multi-objective pollution routing problem on urban roadway networks

Ramin Raeesi, Konstantinos G. Zografos

#### **■ TC-16**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S115

### **Green Logistics Applications**

Stream: Green Logistics Chair: Panagiotis Angeloudis Maritime vessels bunkering problem under the window time constraint

Mouna Aissaouislaoui, Mohamed Benslimane, Tarik Zouadi, Khalid El Yassini

2 - Charging station placement in free-floating electric car sharing systems

Georg Brandstätter, Markus Leitner, Mario Ruthmair

3 - A competitive multiperiod supply chain network model with freight carriers and green technology investment option

Jose Cruz, Sara Saberi, Joseph Sarkis, Anna Nagurney

4 - Design of intermodal sustainable supply chains using inland waterways

Panagiotis Angeloudis, Pablo Achurra-Gonzalez

## **■** TC-17

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S205

## Robust Optimization - Theory and Applications

Stream: Stochastic and Robust Optimization

Chair: Chungmok Lee

- 1 Uniform distribution approach in chance constraint stochastic transportation problem Shubham Singh, M.p. Biswal
- 2 Robust stochastic network flow interdiction Joe Naoum-Sawaya
- 3 Robust scheduling with common due-date and interval processing times uncertainty Maciej Drwal
- 4 A bi-label programming approach for robust transitline planning problem

Chungmok Lee, Rahul Nair

#### **■ TC-18**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S206

## **Understanding the Practice of Problem Structuring Methods**

Stream: Soft OR, Problem Structuring Methods Chair: Mike Yearworth

- 1 Applying a context and action framework to evaluate the interactions between the context, content, and process of problem structuring methods Adrian Small, David Wainwright
- 2 Examining the case for the routine use of problem structuring methods as a stimulus for anticipatory organisational change

David Lowe, Karen Clark, Gerald Midgley, Mike Yearworth

3 - Quantifying the value of problem structuring interventions?

Mike Yearworth, Patrick Tully, Leroy White, Katharina Burger

#### **■** TC-19

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S207

### **Vector and Set-Valued Optimization VII**

Stream: Vector- and Set-Valued Optimization Chair: *Enrico Miglierina* 

 Saddle point conditions for weak and proper efficiency in vector optimization

Giandomenico Mastroeni

2 - On the existence of solutions to quasiequilibrium problems

Massimiliano Giuli

 Stability of convex feasibility problem: the finite dimensional case

Enrico Miglierina, Carlo Alberto De Bernardi, Elena Molho

4 - Stability for the convex feasibility problem: the infinite-dimensional case

Carlo Alberto De Bernardi, Enrico Miglierina, Elena Molho

### **■ TC-20**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S301

## Multiattribute and Bayesian Methods in Decision Making and Negotiation

Stream: Decision Analysis and Decision Support Systems

Chair: Ilkka Leppanen

 On rationality conditions for multi-attribute choice behavior

Pekka Korhonen, Jyrki Wallenius, Tolga Genc, Peng Xu

2 - A bilateral negotiation model using a Bayesian process of beliefs updating

María Jesús Rufo Bazaga, Jacinto Martín, Carlos Javier Pérez Sánchez

3 - Bayesian factorization machines for risk management and robust decision making

Pablo Angulo, Víctor Gallego, David Gómez-Ullate, Pablo Súarez-García

 Decision support system for search engine advertising campaign management by determining negative keywords

Başak Tavşanoğlu, Kemal Kilic

#### ■ TC-21

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S303

#### **Games and Networks**

Stream: Convex, Semi-Infinite and Semidefinite Optimization

Chair: Laura Rosa Maria Scrimali

- 1 Myerson value and position value in network games Ayşe Mutlu Derya
- 2 Bridging effect, simple games, and an importance measure for edges

Jia-Ping Huang

- 3 Types of nodes and centrality measures in networks Vladimir Matveenko, Alexei Korolev
- 4 Coalitional games in evolutionary supply chain networks

Laura Rosa Maria Scrimali

## **■ TC-22**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S304

## Multiobjective Integer and Mixed Integer Programming Problems: Methods and Applications I

Stream: Multiobjective Optimization

Chair: Ozlem Karsu Chair: Firdevs Ulus

- 1 A novel multi-objective approach for sustainable aggregate production planning: a case study
  Seyyed Amir Babak Rasmi, Metin Turkay, Cem Kazan
- 2 An algorithm for solving bi-objective integer programming problems

Firdevs Ulus, Ozlem Karsu, Saliha Ferda Dogan

- 3 Vector optimization models on combinatorial configuration sets and approaches to their solution Liudmyla Koliechkina, Oksana Pichugina
- Generating evenly distributed equitably efficient solutions in multi-objective optimization problems
   Ozlem Karsu, Bashir A, Bashir

#### **■ TC-23**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S305

## Agent-Based Modeling and Simulation

Stream: Agent-Based Simulation in Business and Economics

Chair: Loretta Mastroeni

- Agent-based models for opinion dynamics: a survey Maurizio Naldi, Loretta Mastroeni, Pierluigi Vellucci
- 2 An agent-based methodology to quantify relations between security and efficiency in air transport systems

Stef Janssen, Alexei Sharpanskykh, Ricky Curran

3 - Analytic modelling of the dynamics of multi-agent systems

Stefania Monica, Federico Bergenti

**4 - Agent-based models for personal finance decisions** *Pierluigi Vellucci, Loretta Mastroeni, Maurizio Naldi* 

#### ■ TC-24

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S306

# Dynamical Models in Sustainable Development I

Stream: Dynamical Models in Sustainable Develop-

ment

Chair: Stein Ivar Steinshamn Chair: Pierre Kunsch

- 1 Social efficiency of road transportation system in EU member states: a dynamic eco-inefficiency approach Agnieszka Lejkowska, Seyedkeyvan Hosseini
- 2 The dynamic network DEA model with future performance for eco-efficiency analysis in OECD countries Wendi Ouyang
- 3 Solar farm land analysis using AHP technique Inmacualada Guaita-Pradas, Inmaculada Marqués, Baldomero Segura
- 4 Three species and three agents on a common ground: an optimization model with strategic and biological interaction

Stein Ivar Steinshamn, Nils-Arne Ekerhovd

## **■ TC-25**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S307

## **Optimization in Safety and Security**

Stream: Combinatorial Optimization II Chair: *Karl Doerner* 

- 1 Path inconsistency: models and exact approaches *Philipp E.H. Salzmann, Michael Schilde, Karl Doerner*
- 2 A comparison of different graph networks for the periodic vehicle routing problem with time spread constraints

Adria Soriano, Thibaut Vidal, Margaretha Gansterer, Karl Doerner

3 - Metaheuristics for the multi-objective and periodic node edge, arc routing problem considering costs and route inconsistency

Georg Erwin Adrian Fröhlich, Michael Schilde, Karl Doerner

4 - Fast and stochastic optimal resource planning for electric grids in emergencies

Sumanta Mukherjee, Krishnasuri Narayanam, Amith Singhee, Francisco Barahona, Joao Goncalves

#### **■ TC-26**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S308

## Optimization in Public Transport and Shared Mobility

Stream: Public Transportation I

Chair: M. Grazia Speranza

1 - Integration methods for aircraft scheduling and trajectory optimization at a busy terminal manoeuvring

Marcella Samà, Andrea DAriano, Konstantin Palagachev, Matthias Gerdts

2 - Optimal multi-line bus dispatching at terminals with electric charging scheduling constraints

Marco Rinaldi, Federico Parisi, Andrea D'Ariano, Francesco Viti, Georgios Laskaris

3 - Determining the most vulnearable components in transportation networks

Necati Aras, Hande Kucukaydin, Aylin Oncu

4 - The shared customer collaboration vehicle routing

M. Grazia Speranza, Elena Fernandez, Mireia Roca-Riu

## **■ TC-27**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S309

### **Inventory Models**

Stream: Production, Service and Supply Chain Man-

agement

Chair: Gholam Reza Nasiri

1 - A simulation-based optimal inventory management model considering dynamic demand in IoT environment

Doo-hwan Kim, Sangha Sung, Kangbae Lee, Hyeon Jo

2 - An inventory model with non-linear holding cost and return on investment maximization

Joaquin Sicilia-Rodriguez, Valentín Pando-Fernández, Luis A. San-José-Nieto

3 - Production smoothing and safety stock placement in supply networks

Kunal Kumar, Tarik Aouam

4 - An internal financing approach in the FMCG supply chain planning companies: a direct inventory improvement procedure with a case study

Gholam Reza Nasiri

## **■ TC-28**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S310

## **Dynamic Programming for Revenue** Mangement, Pricing, and Control

Stream: Service Operations Management Chair: Dan Adelman

1 - Dynamic lead-time quotation for substitutable prod-

Tuba Yilmaz Gozbasi, Esma Gel, Pinar Keskinocak

2 - A price-responsive occupant-aware thermostat Canan Uckun, Dan Adelman

3 - Dynamic matching of workers to jobs with learning curves

Dan Adelman, Adam Mersereau

#### ■ TC-29

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S311

## Game Theory, Solutions and Structures II

Stream: Game Theory, Solutions and Structures Chair: Ignacio García-Jurado

1 - The Coleman-Shapley-index: being decisive within the coalition of the interested

Frank Huettner, André Casajus

2 - Characterizing weighted prenucleoli without consistency

Peter Sudhölter, Pedro Calleja, Francesc Llerena

3 - Axiomatic foundations of a unifying concept of core for games in effectiveness form

Stéphane Gonzalez, Aymeric Lardon

4 - Values, nullifiers and dummifiers

Ignacio García-Jurado, Julian Costa, José María Alonso-Meijide

#### **■** TC-30

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S312

## **Cooperative Games of Operations** Management

Stream: Game Theory and Operations Management Chair: Ulas Ozen

- 1 Cooperation in urban consolidation centers Behzad Hezarkhani
- 2 Maximal covering location games: an application for the coast guards

Loe Schlicher

3 - Vaccine allocation: a cooperative game theoretic ap-

Marieke Musegaas, Loe Schlicher, Evelot Duijzer

4 - On the core of m-attribute games

Ulas Ozen, Marco Slikker

#### ■ TC-31

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S313

#### Behavioural Processes in OR practice

Stream: Behavioural OR Chair: L. Alberto Franco

1 - In praise of the introverted: an extended use of soft systems methodology mode 2

Jose-Rodrigo Cordoba-Pachon, Sulafah Basahel

2 - Framing strategies and their impact on client/consultant meetings

Ashley Carreras, L. Alberto Franco

3 - Learning multi-criteria decision aiding workshop facilitation: experience from student case studies Francis Marleau Donais, Irene Abi-Zeid

 4 - Formulations in facilitation practice: an exploratory video-based investigation of their use in situ
 L. Alberto Franco, Mie Nielsen

## **■ TC-32**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S314

## **Order Batching and Picking**

Stream: Routing, Logistics, Location and Transporta-

tion

Chair: Utku Koc

- 1 Using flexible routing to improve the performance of a synchronized sequential zone-picking system Shan-Nung Chu, Ying-Chin Ho
- 2 The cafeteria problem: order sequencing and picker routing in on-the-line picking systems
  Stefan Fedtke, David Füßler, Nils Boysen
- 3 Local search based strategies to solve the order batching problem

Çağla Cergibozan, A. Serdar Tasan

4 - Integrated order acceptance, production planning and distribution problems

Utku Koc, Selçuk Gören

## **■ TC-33**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S315

## Data Mining, Statistics Theory and Its Applications

Stream: Data Mining and Statistics

Chair: Carly Foster

1 - Remaining useful life estimation based on deep learning approach

Youngji Yoo, Jun-Geol Baek

2 - Analyzing business conditions by quantitative text analysis -time series analysis using appearance rate and principal component

Nariyasu Yamasawa

3 - Data science techniques applied to analysis of incidents registered by the 1-1-2 Canary Islands emergency services

Carlos Perez Gonzalez, Marcos Colebrook, José Luis Roda-García, Carlos Rosa Remedios, Teno González Dos Santos  4 - A realist evaluation of a learning analytics pilot project at Northumbria University, UK Carly Foster

#### **■ TC-34**

Tuesday, 12:30-14:00 - SOUTH BUILDING UV S113

## **Stochastic Optimization with Application**

Stream: Dynamical Systems and Mathematical Mod-

elling in OR

Chair: Yukihiro Maruyama

1 - An adversarial risk analysis approach for differential games: a botnet defense model

Jorge Gonzalez-Ortega, David Rios, Antonio Gomez-Corral

2 - Multiple optimal decision rules and their applications in finance

Georgy Sofronov

- 3 Optimal approximate dynamic programming strategies for online caching problem in wireless networks Xinan Yang
- 4 On non-deterministic sequential decision processes and its applications

Yukihiro Maruyama

### **■ TC-48**

Tuesday, 12:30-14:00 - 4D UPV B.3

## Humanitarian Problems under Uncertain Parameters

Stream: Humanitarian Operations

Chair: Christophe Duhamel Chair: Andréa Cynthia Santos

 Optimization of pre- and post-disaster decisions in infrastructure risk management

Camilo Gomez

2 - Inventory management of perishable items in longterm humanitarian operations using Markov decision processes

Guilherme Ferreira, Edilson Arruda

Forecasting material requirements in ERP-based humanitarian logistics

Jose Gavidia

 4 - Modeling the field hospitals location problem after natural disasters

Christophe Duhamel, Andréa Cynthia Santos

#### **■ TC-49**

Tuesday, 12:30-14:00 - 4D UPV B.4

#### OR in Agriculture and Fisheries

Stream: OR in Agriculture, Forestry and Fisheries

Chair: Pall Jensson

1 - Multi-diet formulation model under activity-based costing for animal feed production

Adela Pages Bernaus, Virna Ortiz-araya, LluisM Pla, Jordi Mateo, Francesc Solsona, Dídac Florensa

2 - Determining the eco-efficiency of Chilean raspberry orchards through two LCA+DEA methods: an empirical comparison from an environmental and an operational point of view

Lidia Angulo Meza, Ricardo Rebolledo-Leiva, Marcela C. Gonzalez-Araya, Alfredo Iriarte

3 - An extended approach allowing endogeneity in stochastic frontier models: an application to agricultural Brazilian municipal data

Geraldo Souza, Eliane Gomes

4 - Linear optimization model for fish processing production planning

Pall Jensson

## **■ TC-50**

Tuesday, 12:30-14:00 - 4D UPV 1.1

## Modeling Tools for Energy and Sustainable Policy II

Stream: Long-term Planning in Energy, Environment

and Climate

Chair: Sandrine Selosse

 EU and Norwegian policy analysis using CGE modelling

Gerardo Perez Valdes

2 - The Canadian contribution to limiting global warming below 2 degree C: an analysis with NATEM

Olivier Bahn, Kathleen Vaillancourt, Oskar Sigvaldason

3 - Combining spatial analysis and choice experiments for the evaluation of sustainable neighbourhood strategies

Caterina Caprioli, Marta Bottero, Marina Bravi, Chiara D'Alpaos, Federico Dell'Anna, Giulio Mondini

4 - Multi-objective multi-item fixed-charge solid transportation problem with green supply chain network in an intuitionistic fuzzy environment

Sankar Kumar Roy

## **■ TC-51**

Tuesday, 12:30-14:00 - 4D UPV 1.2

## **Radiotherapy Optimization**

Stream: OR for Health and Care II

Chair: Matthias Ehrgott

1 - Beam angle optimization in IMRT: are we really optimizing what matters?

Joana Matos Dias, Humberto Rocha, Tiago Ventura, Brígida da Costa Ferreira, Maria do Carmo Lopes 2 - Targeted multi-criteria optimization in imrt planning using knowledge based model creation

Katrin Teichert, Philipp Süss

3 - Scheduling radiotherapy treatments considering stochastic appointment durations, patient unavailability and machine breakdowns

Petra Vogl, Roland Braune, Walter Gutjahr, Karl Doerner

4 - Evaluating the quality of radiotherapy treatment plans for prostate cancer

Emma Stubington, Matthias Ehrgott, Omid Nohadani

## **■ TC-52**

Tuesday, 12:30-14:00 - 4D UPV 1.3

## **Workforce Planning**

Stream: OR for Health and Care I

Chair: Inês Marques

 Workforce planning for palliative care specialists in Nova Scotia: an operational research approach Majid Taghavi, Grace Johnston, Robin Urquhart, David

Henderson, Cheryl Tschupruk, Beth Tupala

 Improving shift schedule of non-urgent patient transportation ambulances while maximizing emergency coverage

Theresia van Essen, Pieter van den Berg

The big data newsvendor: practical insights from machine learning

Gah-Yi Ban, Cynthia Rudin

#### **■ TC-53**

Tuesday, 12:30-14:00 - 4D UPV 1.4

#### International Aspects of OR I

Stream: International Aspects of OR

Chair: Ulrike Reisach

1 - Liberated social entrepreneur using business metrics: QZenobia refugee/migrant big data analytics startup

Berat Kjamili, Gerhard-Wilhelm Weber

2 - Artificial intelligence and ethics - an international comparison of perceptions and policies

Ulrike Reisach

#### ■ TC-54

Tuesday, 12:30-14:00 - 4D UPV 1.6

## **Soccer Analytics**

Stream: OR in Sports Chair: *Nobuyoshi Hirotsu* 

The return to leadership: empirical evidence from football

Daniel Weimar, Joachim Prinz

2 - Regression based ratings for individual football players

Lars Magnus Hvattum

3 - Serial correlation in DEA applied to soccer teams and interpretation of weights

Lucia Isabel Garcia-Cebrian

4 - A Markov process approach for modeling a soccer game in the analysis of characteristics of teams

Nobuyoshi Hirotsu, Keita Inoue, Kenji Yamamoto

### **■ TC-55**

Tuesday, 12:30-14:00 - 4D UPV 2.1

## Optimization R Us: Using R for Data-Driven Optimization

Stream: Making an Impact I Chair: Joaquim Gromicho

1 - Optimization R Us: using R for data-driven optimiza-

Joaquim Gromicho

## **■ TC-56**

Tuesday, 12:30-14:00 - 4D UPV 2.2

## Optimization in Renewable and Energy Systems II

Stream: Optimization in Renewable Energy Systems Chair: Andreas Bley

 Capacity payments, price cap, and the missing money problem

Irena Milstein, Asher Tishler

2 - Bilevel linear programming investment problems with lower-level primal and dual variables
Henrik Bylling, Steven Gabriel, Trine Krogh Boomsma

3 - Electromagnetic field optimization algorithm for the photovoltaic solar cell parameter estimation problem Ilker Kucukoglu, Alkin Yurtkuran

#### **■ TC-57**

Tuesday, 12:30-14:00 - 4D UPV 2.3

## Software for Mixed-Integer Optimization II

Stream: Software for Optimization

Chair: Timo Berthold

Benchmarks of commercial and noncommercial optimization software

Hans Mittelmann

2 - Adaptive algorithmic behavior for solving mixed integer programs using bandit algorithms

Gregor Hendel, Matthias Miltenberger, Jakob Witzig

- 3 Learning to tune parameters of NUOPT MILP solver Koichi Fuiii
- 4 To use or not to use an algebraic modeling language (such as OPL)?

Alex Fleischer

## **■ TC-58**

Tuesday, 12:30-14:00 - 4D UPV 2.4

## OR Promotion among Academia, Businesses, Governments

Stream: OR Education Chair: Gerhard-Wilhelm Weber

The contest approach for funding research in academic units

Baruch Keren, Yossi Hadad, Yizhaq Minchuk

 OR/MS education and international cooperation for employability

Joao Miranda, Ana Paula Teixeira

3 - A system-dynamics approach to assess the factors which influence the quality of primary education in developing countries

Gerhard-Wilhelm Weber, Pedamallu Chandra Sekhar, Linet Ozdamar, Herman Mawengkang, Hanife Akar

## **■ TC-59**

Tuesday, 12:30-14:00 - 4D UPV 2.5

## OR Models for the Operation and Planning of Integrated Energy Systems

Stream: Technical and Financial Aspects of Energy Problems

Chair: Juan Miguel Morales

- 1 A three-stage stochastic optimization model for the design of smart energy districts under uncertainty Matteo Zatti, Emanuele Martelli, Juan Miguel Morales
- 2 Operational detail in long-term energy-system planning models: assessment of the impact and moving forward

Kris Poncelet, Erik Delarue

- 3 Investments in merchant energy storage: trading-off between energy and reserve markets Hrvoje Pandzic
- 4 Chronological time-period clustering for optimal capacity expansion planning with storage

Salvador Pineda Morente, Juan Miguel Morales

#### ■ TC-60

Tuesday, 12:30-14:00 - 4D UPV B.5

#### Meet the editors EJDP

Stream: EURO Special Sessions

Chair: Vincent Mousseau

EURO Journal on Decision Processes - Meet the Editors

Vincent Mousseau

## Tuesday, 14:30-16:00

#### **■ TD-01**

Tuesday, 14:30-16:00 - UPV Nexus

## Integrated Optimization in Public Transportation: Does it help?

Stream: Keynotes Chair: Daniele Vigo

1 - Integrated Optimization in Public Transportation: Does it help?

Anita Schöbel

## **■ TD-02**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S101

## **DEA, Agriculture, Food**

Stream: DEA: Applications Chair: Natalia Kuosmanen

 1 - The techical efficiency of Turkish crop production: a comparison of data envelopment analysis and stochastic frontier analysis

Bulent Cekic, Cem Menten, Kazim Baris Atici

2 - Designing healthier diets using data envelopment analysis

Argyris Kanellopoulos, Ante Ivancic, J.c. Gerdessen

3 - The analysis of relative efficiency of small food and drink producers across selected EU countries using DEA

Zrinka Lukač, Margareta Gardijan

4 - How creative destruction of farms affects total factor productivity of Finnish agricultural sector?

Natalia Kuosmanen, Timo Kuosmanen

## **■** TD-03

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S103

# Location in the Public Sector and Humanitarian Logistics

Stream: Location Analysis and Optimization

Chair: Carmela Piccolo

1 - Optimal location of base hospitals for doctorhelicopters

Takamori Ukai, Ken-ichi Tanaka

2 - Reorganizing existing facilities network using multiperiod model

Zati Aqmar Zaharudin, Andrea Genovese, Andrew Brint

Benefit maximizing network design in the public sector

Robert Aboolian, Oded Berman

 4 - A multi-type facility location problem to support territorial re-organization decisions in non-competitive contexts

Giuseppe Bruno, Antonio Diglio, Carmela Piccolo

## **■** TD-04

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S104

### **Portfolio Modelling**

Stream: New Challenges in Investment Strategies,

Risk and Financial Modelling Chair: Francesco Cesarone

- 1 On the numerical stability of asset allocation models Pierpaolo Uberti, Maria Laura Torrente
- 2 The I1-regularization for dynamic-portfolio selection Stefania Corsaro, Valentina De Simone, Zelda Marino, Francesca Perla
- **3 On the stability of portfolio selection models**Francesco Cesarone, Fabio Tardella, Carlo Mottura, Mustafa
  Cagri Gurbuz, Jacopo Maria Ricci
- **4 Robustness via noncooperative games** *Giancarlo Bigi, Simone Sagratella*

#### **■ TD-05**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S105

#### **Routing Problems with Drones**

Stream: Vehicle Routing and Logistics Optimization I Chair: Ahmad Hemmati

1 - Formulations and algorithms for multi-trip drone routing problem with time windows Yossiri Adulyasak, Chun Cheng, Louis-Martin Rousseau

- 2 Traveling salesman problem with multi-drone Emine Es Yurek, H. Cenk Özmutlu
- 3 Vehicle routing problem with drones: a computational study

Daniel Schermer, Mahdi Moeini, Oliver Wendt

4 - A multi-modal truck and drone delivery system Ahmad Hemmati, Mohammad Moshref-Javadi, Matthias Winkenbach

#### **■ TD-06**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S106

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

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

Chair: Christopher Kirkbride

Analysis of lot priority rules in semiconductor production systems by queuing networks

Bernhard Oberegger, Boualem Rabta, Gerald Reiner

2 - Determination of important disease spread characteristics using Markov chain models

Zeynep Gökçe İşlier, Wolfgang Hörmann, Refik Gullu

3 - An integrated inventory replenishment, lateral transshipments, and routing problem

Hussein Naseraldin, Shiry Varem, Aharon Ben-Tal

4 - Effective heuristic policies for time-critical intelligence gathering operations

Christopher Kirkbride

#### **■** TD-07

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S107

## Recent Advances in Line Planning, Timetabling and Crew Scheduling

Stream: Public Transportation II

Chair: Valentina Cacchiani

- 1 Combined line planning and train timetabling for strongly heterogeneous railway lines Fei Yan, Rob Goverde
- 2 Robust train timetabling and stop planning with uncertain passenger demand

  Jianguo Qi, Valentina Cacchiani, Lixing Yang
- 3 Column generation approach: a case study for light railway public transportation system
  Sinem Kulluk, Lale Ozbakir, M. Burak Telcioglu, Pınar

Sinem Kulluk, Lale Ozbakir, M. Burak Telciogiu, Pinar Tapkan, Fatih Bahar

4 - Line planning and train timetabling using passenger demand data

Valentina Cacchiani, Gert-Jaap Polinder, Marie Schmidt, Dennis Huisman

#### **■ TD-08**

 $Tuesday,\ 14:30\text{-}16:00\ -\ SOUTH\ BUILDING\ UV\ S108$ 

## **Applications in Industry and Services II**

Stream: Combinatorial Optimization I Chair: Helena Ramalhinho Lourenco

1 - A branch-price-and-cut algorithm for optimal decoding in LDPC-based communications

Banu Kabakulak, Z. Caner Taşkın, Ali Emre Pusane

 A dual-ramp algorithm for the uncapacitated multiple allocation hub location problem

Telmo Matos, Fábio Maia, Dorabela Gamboa

 Using mobile electric platforms for droid or dronebased last mile deliveries

Hagen Salewski, Dominik Goeke

4 - Optimizing factory logistics in an automotive industry

Helena Ramalhinho Lourenco, Marcelus Lima

### **■** TD-09

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S109

## **Evaluation as a Service for Optimization and Data Science**

Stream: European Working Group: Data Science

Meets Optimization Chair: Szymon Wasik Chair: Maciej Antczak

Optil.io: platform supporting evaluation as a service architecture

Szymon Wasik, Maciej Antczak, Jan Badura, Artur Laskowski

2 - Using contests to crack algorithmic and data science problems

Rinat Sergeev, Jin Paik

3 - Review of online platforms supporting evaluation of algorithms

Artur Laskowski, Maciej Antczak, Jan Badura, Szymon Wasik

4 - Brilliant challenges: lessons learned while collecting evaluation data for optimization problems

Maciej Antczak, Jan Badura, Artur Laskowski, Jacek Blazewicz, Szymon Wasik

#### **■ TD-10**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S110

## **Decision Aiding Methods VIII**

Stream: Multiple Criteria Decision Aiding Chair: Salvatore Corrente

1 - Comparing consistency indices of multiplicative pairwise comparison matrices

Bice Cavallo

2 - Some properties of the additive representation of preferences in pairwise comparisons

Michele Fedrizzi, Matteo Brunelli, Alexandra Caprila

3 - Effectiveness-equity tradeoffs in the aggregation of preferences

Srinivas Prasad, Luis Novoa, Atilla Ay

4 - Interactive evolutionary multiobjective optimization through dominance-based rough set approach: the knapsack problem

Salvatore Corrente, Salvatore Greco, Benedetto Matarazzo, Roman Slowinski

#### **■** TD-11

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S111

#### Sales Forecasting

Stream: Business Analytics Chair: *Kristof Coussement* 

1 - Comparing the ability of Twitter and Facebook data to predict box office sales

Matthias Bogaert, Michel Ballings, Dirk Van den Poel, Asil Oztekin

2 - Gaussian processes for daily demand prediction in the hospitality industry

Wai Kit Tsang, Dries Benoit

3 - Container dwell time prediction via analytics techniques

Rosa G. González-Ramírez, Sebastian Maldonado

4 - Design and development of a business diagnostico tool

Jairo César Gómez Acero, Stefany Murillo, Eduardo Rodriguez Araque

#### **■ TD-12**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S112

## **Liner Shipping Optimization**

Stream: Maritime Transportation

Chair: Kevin Tierney

Cargo fare class mix problem in synchromodal container transportation

Judith Mulder, Bart Van Riessen, Rudy Negenborn, Rommert Dekker

2 - Container liner shipping cargo-mix: a study on capacity utilisation

Dario Pacino, Jonas Christensen

 3 - A decomposed Fourier-Motzkin framework to derive capacity models of container vessels

Mai Ajspur, Rune Jensen

4 - The stochastic liner shipping fleet repositioning problem with uncertain container demands

Stefan Kuhlemann, Kevin Tierney, Achim Koberstein

## **■** TD-13

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S201

#### **Credit Risk Modeling**

Stream: Financial Modeling, Risk Management and Managerial Accounting

Chair: Cristian Bravo

1 - A relabelling approach to handling the class imbalance problem in consumer credit risk modelling Yazhe Li, Tony Bellotti, Niall Adams

2 - OR and sovereign contingent debt instruments Andrea Consiglio, Stavros Zenios

narea Consigno, Stavios Zemos

3 - Deep learning for text-based credit scoring for micro, small and medium enterprises

Matthew Stevenson, Cristian Bravo

## **■** TD-14

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S202

## **Optimization and Equilibrium Problems**

Stream: Nonlinear Programming: Methods

Chair: Genaro Lopez

1 - Linear convergence of gradient algorithm on Riemannian manifolds

Xiangmei Wang, Chong Li

2 - Equilibrium problems on Riemannian manifolds with applications

Chong Li, Genaro Lopez, Xiangmei Wang

3 - A variational equilibrium formulation for humanitarian organizations under competition

Patrizia Daniele, Anna Nagurney, Emilio Alvarez-Flores, Valeria Caruso

4 - A continuous optimisation approach for aiming strategies in solar power tower plants

Thomas Ashley, Emilio Carrizosa, Enrique Fernández-Cara

## ■ TD-15

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S203

## New Applications in Vehicle Routing I

Stream: Vehicle Routing and Logistics Optimization II Chair: Elena Fernandez

 Delivery process with flexibility using automated parcel lockers

Ido Orenstein, Tal Raviv

2 - Interday scheduling and routing of multi-skilled teams with consistency consideration and rescheduling option

Yulia Anoshkina, Frank Meisel

3 - A ride-sharing problem with meeting points and return restrictions

Wenyi Chen, Martijn Mes, Marco Schutten

4 - Target visitation arc routing with clustered demand Elena Fernandez, Gilbert Laporte, Gerhard Reinelt, Jessica Rodríguez-Pereira

#### **■ TD-16**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S115

#### Discrete and Global Optimization I

Stream: Discrete and Global Optimization

Chair: Dorit Hochbaum

 An overview and comparison of metaheuristics for the two-dimensional strip packing problem

Georgina Rakotonirainy, Jan van Vuuren

2 - The solid assignment problem

Mohamed Mehbali, Dhia Kadhem, Abdellah Salhi, Xinan Yang

 3 - Distributed integral simplex using decomposition for set partitioning problems

Omar Foutlane

4 - Multi-period probabilistic set covering problem

Konstantin Pavlikov

#### **■** TD-17

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S205

## Advances in Stochastic and Robust Optimization

Stream: Stochastic and Robust Optimization Chair: Francesca Maggioni

1 - Optimization under uncertainty: a comparison of approaches based on dominance

Marie Schmidt

2 - Robust optimization with mixed-integer uncertainty sets

Juan Borrero, Leonardo Lozano

 Robust optimization approach for multivariate stratified sample surveys

Mohammad Asim Nomani, Jan Pablo Burgard, Mirjam Duer, Ralf Münnich

4 - Guaranteed bounds for general non-discrete multistage risk-averse stochastic optimization programs Francesca Maggioni, Georg Pflug

#### **■** TD-18

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S206

# Different Perspectives on Problem Structuring Methods

Stream: Soft OR, Problem Structuring Methods

Chair: Isabella Lami

1 - Aesthetic perspectives in OR interventions Edoardo Fregonese, Isabella Lami, Elena Todella

2 - Design and integration of methodologies for the management of organizations

Maria Alejandra Castellini, Alberto Paucar-Caceres, Jose Luis Zanazzi

3 - A refreshed pedagogical agenda for problem structuring methods

Stephen Harwood, Maurizio Tomasella

4 - Exploring idea development in tool-supported group development

Isabella Lami, L. Alberto Franco, Elena Tavella

# **■ TD-19**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S207

# **Sustainable Supply Chain Operations**

Stream: Supply Chain Management I

Chair: Peter Berling

1 - Where to exert carbon abatement efforts in a supply chain?

Yann Bouchery, Astrid Koomen, Tarkan Tan

2 - Joint carbon abatement efforts in supply chains
Tarkan Tan, Mohsen Reisi Ardali, Behnam Fahimnia, Charles
Corbett

3 - A dual sourcing inventory model for modal split transport

Sandra Transchel, Chuanwen Dong, Stefan Minner

4 - An assessment of the potential carbon emission savings from lot sizing decisions

Marcel Turkensteen, Wilco van den Heuvel

# **■ TD-20**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S301

# **Behavioural Aspects in Spatial Decisions**

Stream: Decision Analysis and Decision Support Sys-

tems

Chair: Valentina Ferretti

- 1 Several models for the comparison of decision maps Valérie Brison, Marc Pirlot
- 2 Multicriteria and multi-stakeholder negotiation related to strategic environmental assessment of ore ports development in maritime Guinea

Jean-Philippe Waaub, Mariama Diallo, Dan Lansana Kourouma

3 - How to support spatial decision making?

Magdalena Wagner

4 - Cognitive biases in spatial decision-making processes

Valentina Ferretti

# **■ TD-21**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S303

### **Optimization and Variational Analysis**

Stream: Nonlinear Programming: Theory

Chair: Rafael Correa Chair: Marco A. López-Cerdá

- 1 Nonconvex integration using epsilon-subdifferentials Rafael Correa
- 2 Lyapunov pairs for perturbed sweeping processes Emilio Vilches
- 3 Hiriart-Urruty'-Phelps-like formula for the subdifferential of integral sums

Abderrahim Hantoute

 4 - Moreau-Rockafellar type for the subdifferential of the supremum function

Marco A. López-Cerdá, Rafael Correa, Abderrahim Hantoute

### **■ TD-22**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S304

# Multiobjective Integer and Mixed Integer Programming Problems: Methods and Applications II

Stream: Multiobjective Optimization

Chair: Ozlem Karsu Chair: Firdevs Ulus

- 1 Multiple stock size two dimensional cutting stock problem an application to a marble company Umutcan Ayasandir, Meral Azizoglu, Murat Koksalan
- 2 Interactive approaches for bi-objective UAV route planning in continuous space

  Happen Typesi Murat Volcalan Dialahan Tayanar Opturk

Hannan Tureci, Murat Koksalan, Diclehan Tezcaner Ozturk

- 3 Interactive multi response surface optimization under uncertainty for robust parameter design Melis Özates Gürbüz, Gülser Köksal, Murat Koksalan
- 4 An efficient implementation for searching optimal paths in multi-objective networks
  Natsumi Takahashi, Shao-Chin Sung

# **■** TD-23

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S305

### Lot Sizing I - Stochastic Models

Stream: Lot Sizing, Lot Scheduling and Production

Planning

Chair: Roberto Rossi Chair: Mengyuan Xiang

 Multi-echelon multi-product capacitated lot-sizing problem with lead time and uncertain demand Simon Thevenin, Yossiri Adulyasak, Jean-Francois Cordeau

2 - Safety stock allocation under capacity constraints and customer-specific service-times in multi-echelon

inventory routing Sebastian Malicki, Stefan Minner

 3 - Solving the integrated lot-sizing and cutting stock problem under demand uncertainty

Eduardo Curcio, Vinícius Loti de Lima, Flávio Keidi Miyazawa, Elsa Silva, Pedro Amorim  4 - An efficient heuristic for joint replenishment problems

Mengyuan Xiang, Roberto Rossi, Belen Martin-Barragan

# **■** TD-24

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S306

# Dynamical Models in Sustainable Development II

Stream: Dynamical Models in Sustainable Develop-

ment

Chair: Penka Petrova

 Optimal pest control through geometric catastrophes

Theodosis Dimitrakos, Epaminondas Kyriakidis

2 - System dynamics modeling for sustainable development in agricultural value chains

Busra Atamer Balkan, Sedef Meral

3 - Developing a water sustainable development index (WSDI)

Jonathan Morris

4 - Explaining the link between the sustainable economic system and the efficient education system: the opposite example of Bulgaria

Penka Petrova, Ross Kazakov

### **■ TD-25**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S307

# **EURO Young O.R. Researchers**

Stream: Combinatorial Optimization II

Chair: Alberto Santini Chair: Martina Fischetti

1 - Branch-and-cut-and-price strategy for the portscheduling problem

David Sacramento Lechado

2 - A tabu-search algorithm for the routing open shop problem with time windows and precedence constraints

Erik Hellsten

- 3 The energy collection problem in offshore wind parks Martina Fischetti
- 4 A hybrid machine learning and ALNS approach to the orienteering problem

Alberto Santini

### **■ TD-26**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S308

# Railway Optimization

Stream: Public Transportation I Chair: Samuel Deleplanque

1 - Real-time train rescheduling

Andrea Bettinelli, Matteo Pozzi, Luigi Marzio, Daniele Vigo, Massimo Rosti, Rosalba Suffritti, Davide Nucci, Antonio Di Carmine

2 - A stochastic optimization approach to rail yield management at Trenitalia by IBM

Alessandra Berto, Stefano Gliozzi

3 - Modelling train movements for time-tabling

Per Olov Lindberg, Disa Asplund, Martin Aronsson, Jan-Eric Nilsson

4 - Optimizing the shunting yards

Samuel Deleplanque, Paola Pellegrini, Joaquin Rodriguez

# **■ TD-27**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S309

### Line Balancing

Stream: Production, Service and Supply Chain Man-

agement

Chair: Dug Hee Moon

 Balancing and sequencing assembly lines for stochastic demand product mixes

Celso Gustavo Stall Sikora

2 - Simultaneous line balancing and buffer allocation for single model assembly line with stochastic task times

Elif Gizem Göçer, Salih Tekin

Collision-free multi-robot collaboration in assembly line balancing

Erdal Emel, İsmail Enes Parlak

4 - Effects of buffer allocations in a mixed-models flow lines considering designated workers

Dug Hee Moon, Lee Younghoon, Yang Woo Shin, Chang

Seong Ko

### ■ TD-28

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S310

### Incentives and customers in services

Stream: Service Operations Management

Chair: Kenan Arifoglu

1 - Service systems with rationally inattentive customers

Caner Canyakmaz, Tamer Boyaci

2 - Spatio-temporal service performance of two carsharing operators under customer substitution

Szymon Albinski, Stefan Minner

3 - Outsourcing and reservation: tools to manage blended sales and services operations in call centers Benjamin Legros, Oualid Jouini, Ger Koole

4 - Hospital readmission reduction program: the roles of yardstick competition and limited capacity Kenan Arifoglu, Hang Ren, Tolga Tezcan

# **■ TD-29**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S311

# Game Theory, Solutions and Structures III

Stream: Game Theory, Solutions and Structures Chair: Marco Dall'Aglio

- 1 Assignment games with an informed player Saadia El Obadi, Silvia Miquel, Marina Nunez
- 2 Characterization of allocation rules for set covering situations

Manuel A. Pulido Cayuela, Gustavo Bergantinos, Gómez-Rúa María, Natividad Llorca, Joaquin Sánchez-Soriano

3 - Construction of contractually stable partitions for additive hedonic games

Masaya Tanaka, Shao-Chin Sung

4 - Algorithms in the court: the CREA project Marco Dall'Aglio

# **■** TD-30

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S312

# Game Theoretic Models in Sustainable Operations

Stream: Game Theory and Operations Management Chair: Sam Aflaki

- 1 Hedging and strategic forward trading with renewable energy in electricity supply chains Derck Koolen, Wolfgang Ketter, Liangfei Qiu, Alok Gupta
- 2 Retail location competition under carbon penalty Ozgen Karaer, Emre Nadar, Hande Dilek
- 3 Performance-based contracts for energy efficiency projects

Sam Aflaki

4 - Competition in carbon-offset markets

Gokce Esenduran

### **■ TD-31**

 $Tuesday,\ 14:30\text{-}16:00\ -\ SOUTH\ BUILDING\ UV\ S313$ 

# Behavioural Impacts in OR-Supported Processes II

Stream: Behavioural OR Chair: Raimo P. Hämäläinen

1 - Can we learn from wrong simulation models? An experimental study exploring simple models
 Naoum Tsioptsias, Antuela Tako, Stewart Robinson

2 - Impact of dashboards visualizing causal and stockflow structure on operations management performance

Michael Leyer, Jürgen Strohhecker

- 3 A drop in the bucket? Evaluating decision aiding tools in wastewater infrastructure planning cases Fridolin Haag, Judit Lienert
- 4 Behavioural effects in two procedures for creating a strategy portfolio for climate change mitigation Raimo P. Hämäläinen, Tuomas Lahtinen

# **■ TD-32**

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S314

### **Evacuation and Route Planning**

Stream: Routing, Logistics, Location and Transporta-

tion

Chair: Pedro M. Casas

- 1 A mesoscopic framework to model evacuation dynamics: a case study on a university campus Jorge Huertas, Jony Zambrano, Andres Medaglia
- 2 Bi-level sustainable random regret minimization problem

Shabnam Najafi

- **3 The free route flight planning problem** *Adam Schienle, Ralf Borndörfer, Marco Blanco*
- 4 Airspace evacuation strategies Pedro M. Casas

# **■** TD-33

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S315

# Recent Perspectives and Advances in Statistics

Stream: Data Mining and Statistics

Chair: Müjgan Tez

 1 - A simulation study comparing the performances of GAM, GAM with B-spline(GAMB) and GLM in classification

Pakize Taylan

Financial time series forecasting using a fuzzy support vector machine

Engin Tas, Ayca H. Turkan

3 - Study of the European Parliament votes through the multiple partitioning of signed multiplex networks Nejat Arinik, Rosa Figueiredo, Vincent Labatut

4 - A numerical approach for statistical inference of nonlinear regression model parameters

Özlem Türkşen, Müjgan Tez

# **■** TD-34

Tuesday, 14:30-16:00 - SOUTH BUILDING UV S113

# **Game Theory and its Applications**

Stream: Dynamical Systems and Mathematical Mod-

elling in OR

Chair: Ryusuke Hohzaki

1 - Rationalizability in multicriteria games

Yasuo Sasaki

2 - A search game with an interdictor

Atsushi Kurosu, Ryusuke Hohzaki, Takamori Ukai, Yutaka Sakuma, Syuuji Yamada

3 - Effect of retailer's profit maximization on the amount of unsold products in the presence of strategic customers

Yasushi Masuda, Taishi Kawahara, Hideaki Takagi

 4 - A dynamic security game considering cameras and invaders' passage time

Ryusuke Hohzaki

### **■ TD-48**

Tuesday, 14:30-16:00 - 4D UPV B.3

# Humanitarian Strategical and Risk Management Problems

Stream: Humanitarian Operations

Chair: Celso Satoshi Sakuraba Chair: Andréa Cynthia Santos

 Location model of shelters and warehouses, and stock prepositioning, considering the population behavior of evacuation at home level

Pamela P. Alvarez, Andrés Bronfman, Francisca Carrera

2 - An integrated acquisition and download schedule for satellite constellations given environmental and security scenario requirements

Maria José Pinto, Ana Isabel Barros, Pieter van Gelder, Ron Noomen, Monica M De Marchi

**3 - Forecasting for disaster relief** *Nezih Altay* 

4 - Interactive what-if oriented PDDL planning for collaborative crisis management

Yann Semet, Bruno Marcon, Mario Fiorentino, Marcello Cinque

# **■** TD-49

Tuesday, 14:30-16:00 - 4D UPV B.4

### OR in Forestry I

Stream: OR in Agriculture, Forestry and Fisheries Chair: *Lidija Zadnik Stirn* 

Integrating biodiversity conservation in forest management planning through multicriteria decision making techniques

Marta Ezquerro, Marta Pardos, Luis Diaz-Balteiro

2 - Integrated management of forest ecosystem services: an optimisation model based on multicriteria analysis and methaeuristic approach

Sandro Sacchelli, Iacopo Bernetti

3 - Robust optimization vs. simulation-based approach in timber harvest scheduling

Robert Hlavatý, Jan Kaspar

 4 - Analysis of public's perception of forest management (FM) alternatives using multivariate and multiobjective methodology

Lidija Zadnik Stirn, Petra Groselj

### **■** TD-50

Tuesday, 14:30-16:00 - 4D UPV 1.1

# Machine Learning for Energy Applications

Stream: Long-term Planning in Energy, Environment

and Climate

Chair: Gilles Guerassimoff

Machine-learning for energy, environment and climate

Valérie Roy

2 - Machine learning for energy demand model from a load curve

Hamza Mraihi, Edi Assoumou, Gilles Guerassimoff, Valérie Roy

 Household behavior by load curve analysis with machine learning techniques

Ahmed Chaabane, Gilles Guerassimoff, Valérie Roy

### ■ TD-51

Tuesday, 14:30-16:00 - 4D UPV 1.2

# Optimization Problems for Critical Medical Resource Allocation

Stream: OR for Health and Care II

Chair: Bismark Singh

1 - Column generation for the kidney exchange problem
Lucie Pansart, Hadrien Cambazard, Nicolas Catusse, Gautier

2 - An evaluation of the logistics of a university hospital supply

Karina Lyra Fontes, Marcos Estellita Lins

3 - A new logistic approach for a health care supply chain

Sylvain Bertel

4 - Decision-support tools for influenza pandemic preparedness

Bismark Singh, Hsin-Chan Huang, David Morton, Gregory Johnson, Bruce Clements, Lauren Meyers

# **■ TD-52**

Tuesday, 14:30-16:00 - 4D UPV 1.3

# **Pricing and Revenue Management I**

Stream: Analytics and Pricing

Chair: Fredrik Ödegaard

- 1 Exploration and exploitation for decision making Andria Ellina, Christine Currie, Christophe Mues
- 2 Vertical probabilistic selling under competition: the role of consumer anticipated regret

  Dongyuan Zhan
- 3 Stacking the house revenue management in live entertainment

Fredrik Odegaard, Kyle Maclean

# **■ TD-53**

Tuesday, 14:30-16:00 - 4D UPV 1.4

### International Aspects of OR II

Stream: International Aspects of OR

Chair: Ulrike Reisach

 Gender diversity in the upper echelons and firm sustainability performance: an examination of Istanbul stock exchange companies

F. Pinar Acar, Gözde Gözüm

2 - Supply chain modelling for Indian railways catering services

Narasimhan Ravichandran

- 3 A comparison of the operational efficiencies between national and public museums in South Korea Sukran Kim, Jaewoo Chung
- 4 Regional impact analysis of Chinese OFDI on carbon emission

Wenju Tian

### **■ TD-54**

Tuesday, 14:30-16:00 - 4D UPV 1.6

# Sports Analytics I

Stream: OR in Sports Chair: *Tomi Seppala* 

 1 - Application of a hybrid optimization model to improve the performance of the NBA lineups

. Rodrigo Infante-Escudero, Roman Rodriguez-Aguilar

2 - Ranking the solutions of the models in literature on forming the best team for sports clubs by using TOP-SIS method

Gercek Budak, Imdat Kara

- 3 Scheduling youth divisions in Argentinian football Agustina Lopez, Guillermo Durán, Mario Guajardo, Gonzalo Zamorano
- 4 The playing styles of the soccer teams in the 2014 FIFA World Cup Brazil based on game data and factor analysis

Tomi Seppala, Tai Nguyen, Tai Nguyen

### **■ TD-55**

Tuesday, 14:30-16:00 - 4D UPV 2.1

### **OR in Practice - The Human Factor**

Stream: Making an Impact I Chair: Gerben Groenendijk

- The human factor: being right is one thing, it's another to be acknowledged for it
   Nicole Havinga, Bryan Kuiper
- 2 No walk in the park! Skills for developing routing optimization software in practice Gerben Groenendijk, Vera van den Dool

### **■ TD-56**

Tuesday, 14:30-16:00 - 4D UPV 2.2

# Advances in Renewable and Energy Systems

Stream: Optimization in Renewable Energy Systems

Chair: Gordon Dash Chair: Nina Kajiji

1 - Cross border pollution and taxes

Salvador Sandoval

2 - Carbon capture, utilization and storage in the context of Turkish energy market

Danial EsmaeiliAliabadi

3 - Reduction of transmission-grid constraints for computationally efficient N-1 secure dispatch

Richard Weinhold, Robert Mieth

4 - Undetectable cyber-physical attacks on power grids under the AC model

Mauro Escobar, Daniel Bienstock

### **■ TD-57**

Tuesday, 14:30-16:00 - 4D UPV 2.3

### Software for Optimization Modeling I

Stream: Software for Optimization

Chair: Robert Fourer

1 - Recent advances for building and deploying analytical solutions using aimms

Ovidiu Listes

- 2 Model deployment in GAMS Frederik Proske
- 3 Optimizing in the cloud deploying optimization models on the cloud with web services REST APIs Bjarni Kristjansson
- 4 Developing optimization applications through algebraic modeling in AMPL: featuring Python and R APIs for a quick and easy integration with other applications.

FIlipe Brandão, Robert Fourer

### **■ TD-58**

Tuesday, 14:30-16:00 - 4D UPV 2.4

# **Machine Learning and Data Analysis I**

Stream: Emerging Applications of Data Analysis Chair: *Alexander Aduenko* 

- 1 LSTM network time series predicts high-risk tenants Wolfgang Garn, Yin Hu, Paul Nicholson, Bevan Jones, Hongying Tang
- 2 A novel training algorithm to build decision trees for anomaly detection

Sarah Itani, Fabian Lecron, Philippe Fortemps

3 - Content-based image retrieval and analysis with use of scalable morphological models

Ivan Reyer, Ksenia Aminova

4 - Model generation for machine intelligence Vadim Strijov, Oleg Bakhteev

### **■** TD-59

Tuesday, 14:30-16:00 - 4D UPV 2.5

# Operation and Planning Problems in Electric Energy Systems with Renewable Resources

Stream: Technical and Financial Aspects of Energy Problems

Chair: Luis Baringo

 Risk-based operational model of a distribution company in the presence of electric vehicles and renewable energy resources

Miadreza Shafie-khah, S. M. Bagher Sadati, Jamal Moshtagh, João P. S. Catalão

2 - Planning and operating the future European power system

Ruth Dominguez, Miguel Carrión, Giorgia Oggioni

- 3 Sample average approximation for risk-averse problems: a virtual power plant scheduling application Ricardo Pinto de Lima, Antonio Conejo, Loic Giraldi, Olivier Maître, Ibrahim Hoteit, Omar Knio
- 4 Robust self scheduling of a virtual power plant in energy and reserve electricity markets

Ana Baringo, Luis Baringo, José Manuel Arroyo

# Tuesday, 18:00-19:00

### **■** TE-01

Tuesday, 18:00-19:00 - Opera House

# IFORS Distinguished Lecture: Air Transportation Optimization

Stream: Plenaries Chair: Michael Trick

**1 - Air Transportation Optimization** *Cynthia Barnhart* 

# Wednesday, 8:30-10:00

# **■ WA-01**

Wednesday, 8:30-10:00 - UPV Nexus

#### **IFORS Tutorial Lecture**

Stream: IFORS Tutorial Lecture

Chair: Michael Trick

1 - Solving Hard Shortest Path Problems with the Pulse Framework

Andres Medaglia

### ■ WA-02

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S101

# **DEA and Energy**

Stream: DEA: Applications

Chair: Helena Brozova

 A combined multi-criteria decision making method for efficiency assessment of marine renewable energies

Negar Akbari

2 - Measuring the allocation efficiency of power generation portfolio under nuclear-free homeland energy policy

Li-Ming Chou, Chang Dong-Shang, Chun-Cheng Chen, Yi-Chun Chen

3 - Determining preferred responses in crisis situations
Helena Brozova. Michal Škoda

# ■ WA-03

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S103

# **Production and Operations Management**

Stream: Production and Operations Management Chair: Milena Bieniek

 A dynamic multi-commodity lot-sizing problem with supplier selection, storage selection and discounts for the process industry

Thomas Kirschstein, Frank Meisel

- 2 Joint optimal pricing and lot-sizing decisions for an advance sales system under stochastic conditions Maryam Ghoreishi, Christian Larsen
- 3 When is (inventory-driven) dynamic bundling profitable?

Wee Meng Yeo

 4 - Consumer returns policies in consignment contracts with inventory control and price-dependent additive demand

Milena Bieniek

### ■ WA-04

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S104

# **Advances in Risk Management**

Stream: New Challenges in Investment Strategies,

Risk and Financial Modelling

Chair: Roy Cerqueti

 Dependency and systemic risk in banking and insurance

Rosanna Grassi, Gian Paolo Clemente, Asmerilda Hitaj

2 - Green bonds funds: efficiency and concentration risk

Anna Maria D'Arcangelis, Giulia Rotundo

 Non stationarity of high order return distribution moments and their irrational fractional Brownian motion modelling

Gurjeet Dhesi, Muhammad Bilal Shakeel, Thamila Madji, Marcel Ausloos

4 - Systemic risk assessment through adjacency clustering coefficient

Roy Cerqueti, Rosanna Grassi, Gian Paolo Clemente

#### ■ WA-05

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S105

# **Inventory and Location Routing Problems**

Stream: Vehicle Routing and Logistics Optimization I Chair: *Emilio Jose Alarcon Ortega* 

An effective matheuristic for the multi-vehicle inventory routing problem

Oguz Solyali, Claudia Archetti, Haldun Sural

2 - A two-echelon inventory-routing problem for the last mile delivery of perishable products

Sonja Rohmer, G.D.H. (Frits) Claassen, Gilbert Laporte

3 - A heuristic approach based on biased randomization for location routing problem

Abdullah Almouhanna, Banafsheh Khosravi, Djamila Ouelhadj, Angel A. Juan

4 - A matheuristic for the consistent inventory routing Emilio Jose Alarcon Ortega, Michael Schilde, Karl Doerner

### ■ WA-06

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S106

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

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

Chair: José Niño-Mora

1 - Optimal policy for economic production lot-sizing model with preventive maintenance Minjae Park

2 - Modelling of a buffer stock by a random walk with two barriers

Basak Gever, Zulfiye Hanalioglu, Tahir Khaniyev

- 3 A global optimization method for a quadratic reverse convex programming problem by listing FJ points Syuuji Yamada
- 4 Numerical instability in average reward Markov decision processes

José Niño-Mora

# ■ WA-07

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S107

# **Timetabling and Passengers**

Stream: Public Transportation II

Chair: Marie Schmidt Chair: Evelien van der Hurk

 Solution methods for integrated timetabling and passenger routing

Philine Schiewe, Anita Schöbel

2 - Demand and supply interaction for the train timetabling problem

Naut Bulten, Rommert Dekker, Shadi Sharif Azadeh

3 - Synchronizing transfers through integrated timetabling and vehicle scheduling - an iterative matheuristic approach with public transit traffic assignment

Joao Fonseca, Tobias Zündorf, Evelien van der Hurk, Allan Larsen

4 - Timetabling with integrated passenger distribution Johann Hartleb, Marie Schmidt, Markus Friedrich, Dennis Huisman

# ■ WA-08

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S108

# OR in the Physical Internet

Stream: OR in the Physical Internet

Chair: António Ramos

1 - Operations research in the physical internet: literature review and opportunities for research

Manuel Lopes, Teresa Pereira, Pedro Lopes

2 - Simulation-based optimization approach for Plnetworks

Christian Haider, Stefanie Kritzinger, Alexander Kinast, Erik Pitzer, Michael Affenzeller

3 - Physical internet: a study of the containers layer in the NOLI reference model

Moustafa Nakechbandi, Jean-Yves Colin, Hervé Mathieu

4 - Operational research problems in the physical internet

António Ramos, Elsa Silva, José Fernando Oliveira

### ■ WA-09

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S109

# **Graphs, Data and Optimization**

Stream: European Working Group: Data Science Meets Optimization

Chair: Pieter Leyman

 1 - A scale-independent structural definition of community detection in graphs

Alexander Braekevelt, Pieter Leyman, Patrick De Causmaecker

2 - Network structure and dynamics of European stock markets

José G. Dias

3 - Supporting evaluation of algorithms during pace challenges

Jan Badura, Maciej Antczak, Artur Laskowski, Szymon Wasik

4 - A self-adaptive evolutionary algorithm for the intermittent traveling salesman problem with different temperature profiles

Pieter Leyman, Patrick De Causmaecker

# ■ WA-10

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S110

# Urban and Territorial Planning in MCDA

Stream: Multiple Criteria Decision Aiding

Chair: Isabella Lami Chair: Marta Bottero

1 - An integrated multi-criteria spatial decision support system for urban energy scenarios

Sara Torabi Moghadam, Patrizia Lombardi

2 - Dominance-based rough set analysis for understanding the drivers of urban development agreements

Marta DellOvo, Alessandra Oppio, Francesca Torrieri, Milosz Kadzinski, Grzegorz Miebs

3 - A multicriteria framework based on the Choquet integral and the analytic hierarchy process for evaluating scenarios of adaptive reuse

Francesca Abastante, Salvatore Corrente, Salvatore Greco, Isabella Lami, Elena Sezenna

4 - GAHP II Sorting method: an application to the vineyard landscape of Langhe, Roero and Monferrato (Italy)

Vanessa Assumma, Marta Bottero, Alessio Ishizaka

### ■ WA-11

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S111

# **Novel Applications of Analytics**

Stream: Business Analytics

Chair: Wouter Verbeke

- 1 The beneficial effect of ensemble learning in predicting student drop-out in online learning environment Trung Hoai Minh Phan, Kristof Coussement, Dries Benoit, Arno De Caigny, Annelies Raes
- Higher order mining for incremental root cause analysis

Eduardo e Oliveira, Vera Miguéis, José Borges

- 3 Motivating creativity with a carrot and a stick
   creativity-weighted productivity, relative performance information, and perceived competition
   Peter Rötzel, Burkhard Pedell
- 4 Towards accurate and scalable metrics for predicting user engagement on tablets by combining multimodal biosensor data with behavioral interaction patterns

Klaas Nelissen, Seppe vanden Broucke, Bart Baesens, Monique Snoeck

### ■ WA-12

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S112

# Operational Problems in Maritime Terminals

Stream: Maritime Transportation

Chair: Juan Correcher

- 1 A machine scheduling approach to the berth allocation problem under channel restrictions
   Christian Bierwirth
- 2 A new branch and benders cut scheme and heuristic column generation for the discrete berth allocation problem minimizing the makespan

Giorgi Tadumadze, Simon Emde, Heiko Diefenbach

- **3 Optimization of daily berth allocation planning** Ozge Kubilay, Serap Akcan
- 4 A mixed integer linear formulation for the berth allocation problem in terminals with irregular layouts Juan Correcher, Ramon Alvarez-Valdes, Thomas Van den Bossche, Greet Vanden Berghe

### ■ WA-13

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S201

# Operational and Cyber Risk Modeling

Stream: Financial Modeling, Risk Management and Managerial Accounting

Chair: Pilar Gargallo

1 - A new methodology for modelling operational risk using skew t-copulas and Bayesian inference Betty Johanna Garzon Rozo, Jonathan Crook, Fernando Moreira 2 - Semi-closed simulated stock market: the impact of the traders' backgrounds

Valerio Ficcadenti, Gurjeet Dhesi, Mohammad Emambocus, Muhammad Bilal Shakeel, Babar Syed

3 - A novel approach for determining cybersecurity insurance pricing

Thomas Lee

4 - Measuring the leadership relationships between Spanish mutual funds: a dynamic Bayesian approach

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

### ■ WA-14

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S202

# ETHOR I Ethics and Societal Complexity I

Stream: OR and Ethics Chair: *Dorien DeTombe* 

Big data driven government policy a complex societal problem

Antoinette Muntjewerff

- 2 The essence of ethics and societal complexity

  Cathal Brugha
- 3 Earthquake preparedness: optimal deployment of emergency treatment sites

Simona Cohen Kadosh, Zilla Sinuany-Stern, Yuval Bitan

# ■ WA-15

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S203

# **New Applications in Vehicle Routing II**

Stream: Vehicle Routing and Logistics Optimization II Chair: Mustafa Yilmaz

- 1 A vehicle routing problem with periodic replanning M' Luisa Carpente, Julian Costa, Manuel Fontenla, Ignacio García-Jurado, Silvia Lorenzo-Freire, Guido Novoa-Flores
- 2 Periodic vehicle routing problem with flexible visit frequencies

Ahmet Camcı, Ozgur Ozpeynirci, Arya Sevgen

3 - The r-interdiction multi-depot vehicle routing problem

Mir Ehsan Hesam Sadati, Deniz Aksen, Necati Aras

4 - A mathematical model for time-dependent hierarchical Chinese postman problem

Mustafa Yilmaz, Merve Kayacı Çodur

### ■ WA-16

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S115

# **Discrete and Global Optimization II**

Stream: Discrete and Global Optimization

Chair: Jan van Vuuren

- 1 Optimization in Sanger sequencing Silvia Lorenzo-Freire, M' Luisa Carpente, Ana Cerdeira-Pena, Ángeles Saavedra Places
- 2 The Euclidean combinatorial configuration: properties and applications in optimization
  Oksana Pichugina, Sergey Yakovlev
- 3 On the problem of kite location in airborne wind energy farms

Fernando A. C. C. Fontes, Dalila Fontes, Luis Tiago Paiva, Luís Roque

4 - Scheduling Markovian PERT networks to maximize the net present value: new results

Ben Hermans, Roel Leus

# ■ WA-17

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S205

# Robust and Distributionally Robust Optimization

Stream: Stochastic and Robust Optimization Chair: Francesca Maggioni

1 - Distributionally robust optimization with confidence

- bands for probability density functions

  Guanglin Xu
- 2 Data-driven distributionally robust optimization with Wasserstein metric, moment conditions and robust contraints

Adrián Esteban-Pérez, Juan Miguel Morales

3 - The single-source capacitated facility location problem under demand uncertainty: robust optimization and branch-and-price algorithm framework Jaehyeon Ryu, Sungsoo Park

# ■ WA-18

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S206

# The Founders of OR and the Development of Soft OR & Problem Structuring Methods - Special Discussion Session

Stream: Soft OR, Problem Structuring Methods Chair: Robert Dyson

1 - The founders of OR and the development of Soft OR & PSMs

Frances O'Brien, Robert Dyson

# ■ WA-19

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S207

# **Spare Parts and Maintenance Management**

Stream: Supply Chain Management I Chair: Joachim Arts

 Stocking and expediting in two-echelon spare parts inventory systems under system availability constraints

Melvin Drent, Joachim Arts

2 - Operational level planning of a multi-item twoechelon spare parts inventory system

Engin Topan, Matthieu van der Heijden

3 - Practical repair shop priorities

Ece Zeliha Demirci, Joachim Arts, Geert-Jan van Houtum

4 - Spare parts provisioning for manufacturing systems Gudrun Kiesmuller, Florian Sachs

### ■ WA-20

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S301

# **Decision Support Systems: AI Techniques**

Stream: Decision Analysis and Decision Support Systems

Chair: Pascale Zaraté

1 - Sketching for near-real time process mining Vasco Santos, Bruno Oliveira, Orlando Belo

2 - OLAP signatures elicitation

Orlando Belo, Ricardo Silva

3 - Service-oriented approach for ETL development using patterns

Bruno Oliveira, Vasco Santos, Orlando Belo

4 - A proposed multicriteria analysis decision support tool for university students healthy life index: a pilot application for a faculty performance comparison Aslı Özmen

### ■ WA-21

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S303

# (Semi-)Infinite Programming

Stream: Nonlinear Programming: Theory

Chair: Maria Dolores Fajardo Chair: Margarita Rodríguez Álvarez

Stability of the duality gap in linear semi-infinite programming

Miguel Goberna

2 - A new data qualification in convex multiobjective semi-infinite programming

Margarita Rodríguez Álvarez

Exact stable relaxations in robust SOS-convex polynomial optimization

José Vicente-Pérez, Vaithilingam Jeyakumar

4 - Converse and total duality for evenly convex optimization problems

Maria Dolores Fajardo

### ■ WA-22

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S304

# Applications of Multiobjective Optimization

Stream: Multiobjective Optimization

Chair: António Gaspar-Cunha

- 1 Maximum entropy estimation of nutrient importance Ante Ivancic, Argyris Kanellopoulos, Jacqueline Bloemhof
- 2 A multi-objective global score for the beam angle selection problem

Guillermo Cabrera-Guerrero, Enrique Cabrera

 3 - A multi- objective model for hospital supplies using modified evolutionary computation

Soumyajyoti Datta, Rohit Kapoor

4 - Multi-objective optimization of blow moulded containers through the evolution of neural networks

António Gaspar-Cunha, Roman Denysiuk

# ■ WA-23

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S305

# Lot Sizing II - Heuristics

Stream: Lot Sizing, Lot Scheduling and Production

Planning

Chair: Bernardo Almada-Lobo

 A two-phase approach for the parallel machine capacitated lot-sizing and scheduling problem with shared resources

Jesica de Armas, Manuel Laguna

2 - Sandwich approximation algorithms for lot-sizing problems

Wilco van den Heuvel, Guillaume Goisque, Christophe Rapine, Albert Wagelmans

3 - Fast heuristic for creating (online) production plans for the capacitated lot-sizing problem

Christian Almeder

4 - Matheuristcs for capacity planning at the glass container industry

Bernardo Almada-Lobo, Flaviana Moreira de Souza, Márcio Silva Arantes, Cláudio Fabiano Motta Toledo

### ■ WA-24

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S306

# Dynamical Models in Sustainable Development III

Stream: Dynamical Models in Sustainable Develop-

ment

Chair: Ingunn Gunnarsdottir Chair: Pierre Kunsch 1 - Dynamic modeling of the impact of energy transition on economy and environment

Chun-Cheng Chen, Chung-Shu Liu, Chih-Tung Hsiao, Chang Dong-Shang

2 - Evaluation and optimization of photovoltaic panel resources via a novel radiation - to - electrical power model

Omer Nezih Gerek, Ümmühan Başaran Filik, Tansu Filik

3 - Evaluation of photovoltaic storage systems under uncertainty applying stochastic dynamic programming

Dogan Keles, Joris Dehler

4 - Sustainable energy future in Iceland

Ingunn Gunnarsdottir, Brynhildur Davidsdottir

# ■ WA-25

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S307

# **Vehicle Routing Problems**

Stream: Combinatorial Optimization II

Chair: Luciana Buriol

1 - Spontaneous postman problems

Peter Recht

 An adaptive large neighborhood search algorithm for the blood sample transportation problem

Garazi Zabalo Manrique de Lara, Paolo Detti, Giorgio Di Benedetto

3 - Synchronization of unmanned vehicles and vans for parcel delivery

Olivier Gallay, Marc-Antoine Coindreau, Nicolas Zufferey

4 - Using relax-and-fix algorithm for solving an improved formulation of a maritime inventory routing problem

Luciana Buriol, Marcelo Friske

### ■ WA-26

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S308

# Delays and Robustness in Railway Scheduling

Stream: Public Transportation I

Chair: Rob Goverde

1 - Railway delay management with passenger rerouting in face of train capacity constraints

Eva König, Cornelia Schoen

2 - Train delay prediction and its perspective for railway operations

Marie Milliet de Faverges

3 - Multi-objective timetable design for rail transport services

Narayan Rangaraj, Aayush Aggarwal

4 - Integrated timetable rescheduling and passenger routing by dynamic event-activity networks Yongqiu Zhu, Rob Goverde

# ■ WA-27

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S309

#### **Extensions of the Newsvendor Problem**

Stream: Production, Service and Supply Chain Management

Chair: Yasemin Merzifonluoglu

 Robust multi-market newsvendor problem with market selection and uncertain demand data Mohammad Abdel-Aal, Shokri Selim

2 - Newsvendor models with supply uncertainty and a backup supplier

Dimitrios Pandelis, Ioannis Papachristos

- 3 Analyzing supply chain contracts for behavioral newsvendor under information asymmetry
  Abhishek Chakraborty, Sumit Sarkar
- 4 Integrated demand and procurement portfolio management with spot market volatility and option contracts

Yasemin Merzifonluoglu

### ■ WA-28

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S310

### **Iterated Greedy**

Stream: Memory-based Heuristics

Chair: Ruben Ruiz

1 - Bicriteria M-machine no-wait flowshop scheduling problem

Harun Aydilek, Asiye Aydilek, Ali Allahverdi

2 - Heuristic approaches to makespan and flowtime minimization in a two-level hybrid flow shop with no-wait constraint

Andreas Hipp, Caroline Raue, Rainer Leisten

 Iterated local search algorithm for the quadratic assignment problem

İslam Altın, Aydin Sipahioglu

4 - Keep it simple, stupid. Iterated greedy methods for scheduling problems

Ruben Ruiz

### ■ WA-29

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S311

### Cutting and Packing I

Stream: Cutting and Packing

Chair: Julia Bennell

 Research gaps and future research directions in cutting and packing

Julia Bennell, José Fernando Oliveira, Gerhard Wäscher

2 - Challenge ROADEF / EURO 2018 - cutting optimization

Quentin Viaud, Eric Bourreau

3 - Improving a semi-discrete lines representation for the 2D irregular strip packing problem

Wojciech Kuberski, Dirk Roose, Tony Wauters

4 - An archaeological irregular packing problem

Antonio Martinez Sykora, Julia Bennell, Carlos Lamas-Fernandez, Marta Cabo Nodar

# ■ WA-30

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S312

# **Operations and Game Theory**

Stream: Game Theory and Operations Management Chair: Bo Chen

- 1 Algebraic geometry in operational research games Tri-Dung Nguyen
- 2 Discounting, diversity, and investment Wei Wei, Sebastian Ebert, Xunyu Zhou
- 3 Computational analysis of market designs for smart grid implementation

Julia Grübel, Veronika Grimm, Sebastian Martin, Gregor Zöttl

4 - Nash equilibrium uniqueness for two-player noncooperative continuous games

Maria Carmela Ceparano, Francesco Caruso, Jacqueline Morgan

# ■ WA-31

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S313

# Behavioural Operations and Games I

Stream: Behavioural OR Chair: Aysegul Engin

- 1 Performance of selected contract designs for the newsvendor problem considering behavioral economic aspects of bargaining: experimental evidence Maximilian Vincent Reimer
- 2 Analysis of the hockey stick phenomenon using game theory and economical experiments

  Natalia Correa, Sergio Ramirez
- The curse of knowledge in decentralized supply chains

Daniel Sanchez-Loor, Wei-Shiun Chang

4 - Optimistic overconfidence in bidding behavior with differently represented cost feedback in electronic reverse auctions

Aysegul Engin

# ■ WA-32

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S314

# **Transportation and Uncertainty**

Stream: Routing, Logistics, Location and Transporta-

tion

Chair: Camilo Quiroga

 Exact models and optimal policies for shipment consolidation: a stochastic dynamic programming approach

Sila Cetinkaya, Liqing Zhang

2 - Optimizing the parking price of a car park by queueing models

Yossi Hadad, Baruch Keren

- 3 The capacity choices of the U.S. domestic airline market and passengers demand forecasting Nahid Jafari
- 4 An optimization model for aircraft routing under uncertain operational times

Camilo Quiroga

# ■ WA-33

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S315

# **Data Mining Applications in Life Sciences**

Stream: Data Mining and Statistics

Chair: Pinar Karadayi Atas Chair: Gerhard-Wilhelm Weber

 Epileptic seizures prediction through the analysis of EEG synchronization

Paolo Detti, Garazi Zabalo Manrique de Lara, Renato Bruni, Marco Pranzo

2 - Value of patient history for predictive models: a case study using French PMSI database

Hugo De Oliveira, Martin Prodel, Vincent Augusto

3 - An AHP model for estimating student desertion in higher education institutions

Luis Quezada, Hernan Silva, Astrid Oddershede, Pedro Palominos

### ■ WA-34

Wednesday, 8:30-10:00 - SOUTH BUILDING UV S113

### **Networks and flows**

Stream: Discrete Optimization, MIP and MINLP

Chair: Thorsten Schmidt-Dumont

1 - New partition inequalities for the unsplittable flow problem

Arnaud Knippel, Sonia Vanier

- 2 An optimal adding edge with short length between two levels of a complete k-ary tree Kiyoshi Sawada
  - Kiyosni Sawada

3 - Reinforcement learning in conjunction with autonomous vehicles for the control of traffic flow on highways

Thorsten Schmidt-Dumont, Jan van Vuuren

# **■ WA-48**

Wednesday, 8:30-10:00 - 4D UPV B.3

# **Engineering Optimization**

Stream: Engineering Optimization

Chair: Wolfgang Achtziger

 A contribution to general repair models and their application

Frank Beichelt

2 - A GRASP metaheuristic for generating optimal meshes for fluid flow simulation

Víctor Hugo Martínez Reza, Mayra Elizondo, Rubén Ávila Rodriguez

 Optimization of an industrial aluminum parts casting process based on simulated annealing

Antonio Jiménez-Martín, Alfonso Mateos, Guillermo de Lima

4 - On optimality conditions for classical formulations of topology optimization problems for discrete/discretized engineering structures

Wolfgang Achtziger

### ■ WA-49

Wednesday, 8:30-10:00 - 4D UPV B.4

### OR in Forestry II

Stream: OR in Agriculture, Forestry and Fisheries Chair: *Antonio Alonso-Ayuso* 

- 1 Optimization models of floorboard toplayer assembly Matthias Kaltenbrunner, Maria Anna Huka, Manfred Gronalt
- 2 Stochastic and multicriteria decision making applied to suppression of wildfires

Javier León, Begoña Vitoriano, John Hearne

 Integrating strategic and tactical decision levels in forestry management under uncertainty

Antonio Alonso-Ayuso, Laureano Fernando Escudero, Monique Guignard-Spielberg, Andrés Weintraub

# ■ WA-50

Wednesday, 8:30-10:00 - 4D UPV 1.1

### **OR for Developing Countries IV**

Stream: OR for Developing Countries

Chair: Herman Mawengkang Chair: Begoña Vitoriano 1 - Factors that affect the user satisfaction of information technology facility service

Roslina Roslina, Devy Mathelinea, Herman Mawengkang

2 - Integer programming model for tackling a variant of open vehicle routing problem in evacuation transportation planning system

Dedy Hartama, Herman Mawengkang

- 3 Optimization model for logistic planning problem of fish processed product considering location-routing Intan Syahrini, Devy Mathelinea
- 4 An integer programming model for resource management planning problem in Aceh province, Indonesia Taufiq Taufiq, Herman Mawengkang

# ■ WA-51

Wednesday, 8:30-10:00 - 4D UPV 1.2

# **Health Care Scheduling**

Stream: OR for Health and Care II

Chair: Eva Schmidt

- 1 Planning of out-of-hours service for pharmacies Christina Büsing, Timo Gersing, Arie Koster
- 2 Robust strategic planning for emergency doctors Manuel Streicher, Sven Krumke, Eva Schmidt
- 3 Next-day operating room scheduling with timedependent stochastic surgery durations Enis Kayis, Tugce Karatas, Refik Gullu
- 4 Resource controlling in the health care sector Eva Schmidt, Sven Krumke, Manuel Streicher

# ■ WA-52

Wednesday, 8:30-10:00 - 4D UPV 1.3

# E-Fulfillment

Stream: Analytics and Pricing

Chair: Jan Fabian Ehmke

 1 - Simulation-based optimization of time window allocation for attended deliveries

Magdalena Lang, Catherine Cleophas, Jan Fabian Ehmke

2 - On time window budgets for anticipation in attended home delivery

Sebastian Koch, Robert Klein

3 - A bilevel model with a solution algorithm for the network design and pricing problem

Christine Tawfik, Sabine Limbourg

4 - Flexible time window management for attended home deliveries

Charlotte Köhler, Jan Fabian Ehmke, Ann Campbell, Catherine Cleophas

# ■ WA-53

Wednesday, 8:30-10:00 - 4D UPV 1.4

# **Probabilistic Forecasting**

Stream: Stochastic Assessment of Renewable Energy Chair: Miguel Carrión

 1 - Optimal switch-over time for non-repairable products with short lifecycles

Ruey Huei Yeh

 Benefits in economic terms of short term forecasting of renewable energy

John Boland

3 - Forecasting gross inland natural gas consumption in European countries through bagging methods Erick Meira de Oliveira, Fernando Luiz Cyrino Oliveira

 Selling price determination of an electricity supplier for electric vehicles

Miguel Carrión, Ruth Dominguez, Rafael Zarate-Miñano

# ■ WA-54

Wednesday, 8:30-10:00 - 4D UPV 1.6

### Sports Analytics II

Stream: OR in Sports Chair: Jiun-Yu Yu

 1 - An accessible lactate threshold assessment tool to support endurance athletes' trainings

Urtats Etxegarai, Eva Portillo, Jon Irazusta, Itziar Cabanes, Jon Larruskain

- 2 Advanced voting systems for ranking of candidates Petra Zýková
- 3 Sports facility location planning with customers' preference

. Jiun-Yu Yu

### ■ WA-55

Wednesday, 8:30-10:00 - 4D UPV 2.1

### **MIP Solvers in Practice**

Stream: Making an Impact II

Chair: Björn Thalén

1 - MIP-solvers in practice

Björn Thalén, Joaquim Gromicho, Denise Tönissen, Timo Berthold, Alex Fleischer, Ronald Buitenhek, Frank Haeger

### ■ WA-56

Wednesday, 8:30-10:00 - 4D UPV 2.2

# **Emergency Logistics and Healthcare Optimization**

Stream: Healthcare Logistics

Chair: Issam Nouaouri

 An ALNS algorithm for scheduling and routing in home healthcare services

Ahmet Cinar, Sibel Salman, Burcin Bozkaya

2 - Modeling yellow and red alert durations for ambulance systems

Amir Rastpour, Armann Ingolfsson, Bora Kolfal

3 - Stochastic modeling and simulation to minimize patient waiting time in an emergency department Issam Nouaouri, Dorsaf Daldoul, Hanen Bouchriha, Hamid

# ■ WA-57

Allaoui

Wednesday, 8:30-10:00 - 4D UPV 2.3

# **Software for Optimization Modeling II**

Stream: Software for Optimization

Chair: Susanne Heipcke

- 1 New modeling options for SAS' optimization Jared Erickson
- 2 Adding functions to AMPL David M. Gay
- 3 Pyomo: extensible optimization modeling in Python Carl Laird, Michael Bynum, William Hart, John Siirola, Anya Castillo
- 4 Opening Xpress Mosel

Susanne Heipcke, Yves Colombani

### ■ WA-58

Wednesday, 8:30-10:00 - 4D UPV 2.4

### Machine Learning and Data Analysis II

Stream: Emerging Applications of Data Analysis Chair: Vadim Strijov

1 - Cracking open the black box: a neural network based option valuation model

Yi Cao, Jia Zhai

2 - Narrow big data in streams: exact vs. approximate computing

Michal Cerny

3 - Temporal clustering of time series via threshold autoregressive models

Cem İyigün, Sipan Aslan, Ceylan Yozgatligil

4 - Multimodel selection for classification problems Alexander Aduenko, Vadim Strijov

### ■ WA-59

Wednesday, 8:30-10:00 - 4D UPV 2.5

# **Bidding in Power Markets**

Stream: Technical and Financial Aspects of Energy

**Problems** 

Chair: Christoph Graf

 1 - Transmission expansion investment coordination: transition from game-theoretic to mechanism design approach

Sambuddha Chakrabarti, Mohammad Reza Hesamzadeh, Yaser Tohidi

- 2 Trading strategies for continuous intraday markets Gilles Bertrand, Anthony Papavasiliou, Anthony Papavasiliou
- 3 Stochastic-dynamic optimization of a joint strategy for day-ahead bidding and intraday trading David Wozabal. Nils Löhndorf
- 4 Market clearing and best response bidding in the Italian power market

Christoph Graf

### ■ WA-60

Wednesday, 8:30-10:00 - 4D UPV B.5

#### **ERC** session

Stream: EURO Special Sessions

Chair: Giovanni Felici

1 - The European Research Council Grants: an opportunity not to be missed for scientists in Operations Research and Applied Mathematics

Giovanni Felici

# Wednesday, 10:30-12:00

# ■ WB-01

Wednesday, 10:30-12:00 - UPV Nexus

# Teaching experiments are condemned to be successful

Stream: Keynotes Chair: Ramon Alvarez-Valdes

Teaching experiments are condemned to be successful

Maria Antónia Carravilla

### ■ WB-02

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S101

# **DEA**, Logistics, Transportation

Stream: DEA: Applications Chair: Julián Benavides

1 - Towards automatic suggestions of aircraft trajectory change for mitigating high traffic complexity based on an air traffic control difficulty index Sakae Nagaoka, Hiroko Hirabayashi, Mark Brown

2 - Decision-making in a multi-choice environment: a study of shipping carriers in US

Shalabh Singh, Sonia Singh, Ankit Khandelwal

3 - Peak workload and performance of parcel delivery companies

Amir Shabani, Gabor Maroti, Wout Dullaert, Sander de Leuw

4 - A mobile tool for operational decision support in aircraft dispatch

Hemmo Koornneef, Wim Verhagen, Ricky Curran

### ■ WB-03

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S103

# **Maintenance Operations**

Stream: Production and Operations Management Chair: Ayse Sena Eruguz

- 1 Design of multi-component periodic maintenance programs with single-component models Joachim Arts, Rob Basten
- 2 Joint optimization of production scheduling and condition-based maintenance planning

  Bram de Jonge
- 3 A simulation-based evaluation of dynamic task prioritization in maintenance management

Dietmar Neubacher, Nikolaus Furian, Clemens Gutschi

4 - Maintenance optimization for multi-component systems with a single sensor

Ayse Sena Eruguz, Rob Basten, Lisa Maillart

# ■ WB-04

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S104

# **Optimal Control Applications I**

Stream: Optimal Control Applications

Chair: Gernot Tragler

 Optimal prevention and adaptation in a stochastic flood model - an application of vintage-models in socio-hydrology

Michael Freiberger, Alexia Prskawetz

2 - Optimal investments of a firm generating emissions: a bi-objective approach

Andrea Seidl, Richard Hartl, Peter M. Kort

 3 - Optimal control, endogenous population growth and the dynamics of economic growth

Jose-ramon Ruiz-tamarit

4 - Radicalization of terrorists: an optimal control approach

Gernot Tragler

### ■ WB-05

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S105

# **Orienteering and Traveling Salesman Problems**

Stream: Vehicle Routing and Logistics Optimization I Chair: Alejandro Montoya

- 1 The competitive pickup and delivery orienteering problem for balancing carsharing systems

  Layla Martin, Stefan Minner
- 2 A hybrid algorithm for the family salesman problem Ana Paias, Raquel Bernardino
- 3 Optimization of the LPG distribution system for an oil company

Özlem Çağlayangil, Necati Aras

4 - The team orienteering problem with time-dependent profit

Alejandro Montoya

### ■ WB-06

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S106

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

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

Chair: Christopher Kirkbride

 1 - An integrated simulation-optimization framework for complex emergency medical services

David Olave, Stefan Nickel, Philipp Fath, Melanie Reuter-Oppermann

2 - Coordination in ride hailing platforms: an agentbased approach

Harit Joshi, Saral Mukherjee

- 3 Simulation of passenger flows at a constrained cruise port: evidence from the island of Santorini Michail Karpathiou, Fotios Katsigiannis
- 4 Diffusion and adoption of technological innovations in the Mar del Plata cooperative sector: the invisibility of their work

Alicia Zanfrillo

# ■ WB-07

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S107

# Scheduling with Resource Constraints I

Stream: Scheduling with Resource Constraints

Chair: Morteza Davari

Optimizing naval flight event schedules at training ranges

Robert Dell, Robert Slye

- 2 Scheduling and lot-sizing with considering controllable processing time and fixed carbon emission Mehdi Bijari, Seyed Milad Mirnajafi Zadeh
- 3 Precedence theorems and dynamic programming solutions for the precedence-constrained single machine weighted tardiness problem Salim Rostami, Stefan Creemers, Roel Leus
- 4 A generic solution method for scheduling with inventory constraints

Morteza Davari, Jeroen Belien, Patrick De Causmaecker, Roel Leus

### ■ WB-08

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S108

# Optimization Problems on Graphs and Networks

Stream: Combinatorial Optimization I

Chair: Michele Monaci

Decision diagrams for solving a prize-collecting sequencing problem

Johannes Maschler, Günther Raidl

2 - Solving the order batching and picker routing problem as a clustered vehicle routing problem

Babiche Aerts, Trijntje Cornelissens, Kenneth Sörensen

3 - Monotonicity and conformality in multicommodity network-flow problems

Daniel Granot, Frieda Granot

4 - An empirical investigation of network polarization Celso Ribeiro, Ruben Interian

### ■ WB-09

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S109

# **Data Science in Optimization Algorithms**

Stream: European Working Group: Data Science

Meets Optimization Chair: Andrew J. Parkes Chair: Daniel Karapetyan

1 - Quick termination of poor performers in automated algorithm configuration

Daniel Karapetyan, Andrew J. Parkes, Thomas Stützle

- 2 Features of genetic algorithms realization for the Euclidean combinatorial optimization problems

  Oleksii Kartashov
- 3 Metaheuristics for the search for SAT heuristics Andrew Burnett, Andrew J. Parkes
- 4 Machine learning of the quality of machine-generated heuristics

Andrew J. Parkes, Ender Özcan, Asghar Neema Mohammad Beglou

### ■ WB-10

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S110

### MCDA and Environmental Management I

Stream: Multiple Criteria Decision Aiding

Chair: Luisa Paolotti Chair: Filippo Fiume Fagioli

1 - Assessing the sustainability of different poultry production systems: a multi-criteria approach Luisa Paolotti, Lucia Rocchi, Antonio Boggia, Cesare

Castellini, Adolfo Rosati

2 - Discrete multi-criteria methods for election of lands use alternatives in the Toro river hydro-basin (province of Salta, Argentina)

Juan B Grau, Jose M Anton, Rocio C. López, José A. Gualotuña, Diego Andina, Federico Colombo, Ana M. Tarquis

- 3 Assessing urban vulnerability: a hybrid multi-criteria decision-making process for East Naples (Italy) Maria Cerreta, Giuliano Poli
- 4 Farm sustainability assessment: how to conciliate economic and environmental objectives
  Filippo Fiume Fagioli, Luisa Paolotti, Antonio Boggia

### ■ WB-11

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S111

# **E-Commerce & Social Media**

Stream: Business Analytics

Chair: Stiene Praet

1 - Collecting and analyzing customers experiences from Trip Advisor social media

Carla Vairetti

2 - Dfficiency in multi-channel retail chain store: a twostage DEA approach with environmental factors and e-commerce indicators

Cristina Ciobanu, Kristof Coussement, Koen W. De Bock

3 - Ssocial network analytics in micro-lending

María Óskarsdóttir, Cristian Bravo, Bart Baesens, Jan Vanthienen

4 - A data mining approach to analyze political communication on Twitter

Stiene Praet, Walter Daelemans, Tim Kreutz, Peter Van Aelst, Stefaan Walgrave, David Martens

# ■ WB-12

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S112

# Optimization and Simulation in Port Logistics

Stream: Maritime Transportation

Chair: Dario Pacino

 Job scheduling rail-mounted gantry cranes in an intermodal rail-road terminal

Michiel Van Lancker, Greet Vanden Berghe, Tony Wauters

2 - Landside container handling operations at an automated container terminal

Amir Gharehgozli

3 - An approach towards the container terminal management problem (CTMP)

Leif Meier

4 - A hybrid heuristic for the flexible ship loading problem

Jonas Christensen, Dario Pacino

# ■ WB-13

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S201

# **Financial Literacy and Risk Measurement**

Stream: Financial Modeling, Risk Management and Managerial Accounting

Chair: Alain Chevalier

1 - Value and momentum in energy markets Rita D'Ecclesia

2 - A generalized duration for mortality risk management

Marius Radermacher

3 - Adaptive quantification of value-at-risk based on the energy distribution of asset returns

George Tzagkarakis, Frantz Maurer, Thomas Dionysopoulos

4 - Going private transaction performance in emerging economies:a comparative study between Latin America and Asia

Alain Chevalier, Aurelie Sannajust

### ■ WB-14

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S202

# ETHOR II Ethics and Societal Complexity

Stream: OR and Ethics Chair: *Dorien DeTombe* 

1 - Is the Compram method usable by handling intergenerational poverty in Zodrenthe?

Simon Henk Luimstra

2 - Societal Complexity versus LEARN TO LIVE TOGETHER: contemporaneous 'Science-Culture-Religion Dialogue'. COMPRAM Methodology and 'Decisional Nomology' contributions

Nicolae Bulz

3 - Inhabitants take responsibility of their health position

Hans Derks

4 - Equal rights and opportunities for women

Dorien DeTombe

#### ■ WB-15

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S203

# Scheduling Theory I

Stream: Scheduling Theory

Chair: Kathrin Maassen

 New approximate methods for the two-stage multimachine assembly scheduling problem

Carla Talens Fayos, Paz Perez Gonzalez, Victor Fernandez-Viagas, Jose M Framinan

2 - Towards an effective column generation technique for solving large batch scheduling problems

Mendez Carlos, Mariana Cóccola, Rodolfo Dondo

3 - Scheduling with step-improving processing times

Eun-Seok Kim

 4 - Simplifications and optimal solutions for the twomachine permutation flow shop regarding the diversity of processing times

Paz Perez Gonzalez, Kathrin Maassen, Jose M Framinan

### ■ WB-16

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S115

# **Discrete and Global Optimization III**

Stream: Discrete and Global Optimization

Chair: Thorsten Schmidt-Dumont

Piecewise linear function fitting via mixed-integer linear programming

Steffen Rebennack, Vitaliy Krasko

2 - Convex extensions in discrete optimization with their applications

Sergey Yakovlev, Oksana Pichugina

3 - Black-box optimization for additive manufactured heat exchangers

Sebastien Cadalen

4 - A real-world application of the travelling salesman problem using non-deterministic data classification algorithms

Omer Celepcikay, Caner Okutkan, Egemen Berki Cimen, Emine Çelepçikay

# ■ WB-17

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S205

# **Stochastic Programming**

Stream: Stochastic and Robust Optimization

Chair: Petr Lachout

1 - Quantization of Lévy measures

Mark Anthony Caruana

2 - A branch and bound procedure for the stochastic assembly line balancing problem

Johannes Schnitzler, Raik Stolletz

3 - Stochastic optimization on a graph with random decision points

Petr Lachout

# ■ WB-18

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S206

# E-commerce Related Problems in Transportation and Logistics

Stream: Transportation Chair: *Xuezhen Guo* 

1 - A last mile delivery paradigm using microhubs with crowdshipping

Jane Lin

2 - A vehicle routing planning method for the city logistics considering carbon emissions

Jun-Der Leu

3 - Optimizing line haul routing for a Brazilian ecommerce company

Marcio Oshiro, Felipe Moreira, Henrique Watanabe

4 - A conceptual framework for city logistics transition with crowdsourced delivery

Xuezhen Guo, Jacqueline Bloemhof, G.D.H. (Frits) Claassen

### ■ WB-19

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S207

# **Sustainable Operations**

Stream: Supply Chain Management I

Chair: Peter Berling

 Impact of biomass commercialization on procurement strategy and environment in agricultural processing

Onur Boyabatli, Buket Avci, Bin Li

- 2 Bioenergy supply chain network planning problem Halit Uster, Gokhan Memisoglu
- 3 New product diffusion in closed-loop supply chains Emre Nadar, Baris Emre Kaya, Kemal Goler
- 4 The art of modeling and stable development of the world

Lyudmila Kuzmina

# ■ WB-20

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S301

# Decision Analysis for Investment Portfolio Selection and Resource Allocation

Stream: Decision Analysis and Decision Support Systems

Chair: Mohammad Mehdi Hosseinzadeh

- 1 On various solutions of areas allocation problem Sergey Shvydun, Fuad Aleskerov
- 2 Investment frontier in mean-lower partial moment portfolio selection framework

Dipankar Mondal, Selvaraju Natarajan

3 - DEA to support decision-making in portfolio problems

Mohammad Mehdi Hosseinzadeh, Sergio Ortobelli, Farhad Hosseinzadeh Lotfi

# ■ WB-21

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S303

# **Applications of Optimal Control**

Stream: Nonlinear Programming: Theory

Chair: Hector Ramirez

1 - Controlling recirculation rate in minimal-time bioremediation of natural water resources Victor Riquelme, Alain Rapaport

- 2 Characterizing the optimal profile of the open pit mine planning problem in the continuous framework Emilio Molina, Jorge Amaya, Cristopher Hermosilla
- Optimal control of biogas production for the chemostat

Antoine Haddon

 4 - Bioremediation of water resources: an optimal control approach

Hector Ramirez

# ■ WB-22

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S304

# **Multiobjective Portfolio Optimization**

Stream: Multiobjective Optimization

Chair: Iryna Yevseyeva

**1 - Thematic portfolio optimization** Florian Methling, Rüdiger von Nitzsch

2 - Granular-based interactive portfolio optimization model for investment decision aids

Kao-Yi Shen, Gwo-Hshiung Tzeng

3 - Asset management optimization: a framework to reduce costs and risk for utilities management

Luis Dias, Luis Guimarães

4 - Cyber security portfolios selection under limited budget constraints

Iryna Yevseyeva, Michael Emmerich, Vitor Basto-Fernandes, Stefan Parpurov, Helge Janicke

# ■ WB-23

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S305

# Lot Sizing III - Remanufacturing

Stream: Lot Sizing, Lot Scheduling and Production

Planning Chair: *Onur Kilic* 

 1 - A MILP model for closed loop production planning in the automotive industry: a case study

Julien Maheut, Angel Ruiz, José P. Garcia-Sabater

2 - Perishability in integrated procurement and reprocessing planning of reusable medical devices in hospitals

Steffen Rickers, Florian Sahling

3 - Six sigma methodologies in airline operations Ramesh Bollapragada

4 - The economic lot sizing problem with remanufacturing: new structural properties and polynomial-time heuristics

Onur Kilic, Wilco van den Heuvel

### ■ WB-24

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S306

# Dynamical Models in Sustainable Development IV

Stream: Dynamical Models in Sustainable Develop-

ment

Chair: Alvin Henao Perez Chair: Pierre Kunsch

- 1 Optimal allocation rules with waste considerations Sara Rezaee Vessal, Sam Aflaki
- 2 Analysing control strategies for urban air pollution through a system dynamics model

Jenny Rocio Rios Martinez, Y Olaya

3 - A system dynamics model to evaluate the impacts of overloaded vehicles transporting ornamental stones in Brazil

Glaydston Ribeiro, Verônica Ghisolfi, Gisele Chaves, Romulo Orrico, Ivone Hoffmann, Leonardo Perim

4 - Effects of integration of renewable energy sources on financial statements of electric conventional generation plants.

Alvin Henao Perez, Guisselle Garcia

# ■ WB-25

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S307

# Novel Algorithms for Scheduling Problems

Stream: Combinatorial Optimization II

Chair: Erwin Pesch Chair: Dominik Kress

 1 - A mechanism design for scheduling problems with multi machine agents

Alexander Herbst, Ulf Lorenz

Conflict-free yard crane routing in an automated container terminal

Erwin Pesch, Jenny Nossack, Dirk Briskorn

3 - Planning and scheduling in open-pit mining

Chris Potts, Antonio Martinez-sykora

4 - Pick up plan in case of shuttle racks warehouse - an optimization approach

Dawid Kansy, Pawel Hanczar

# ■ WB-26

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S308

# Vehicle Scheduling and Rolling Stock

Stream: Public Transportation I

Chair: Anita Schöbel

1 - Location planning of charging stations and vehicle scheduling for electric buses in public transport Nils Olsen, Natalia Kliewer

2 - Stochastic maintenance location routing for rolling stock

Denise Tönissen, Joachim Arts, Max Shen

3 - Rolling stock scheduling with maintenance requirements at the Chinese high-speed railway

Qingwei Zhong, Richard Lusby, Jesper Larsen, Qiyuan Peng

4 - Designing cost-minimal public transport systems Alexander Schiewe, Anita Schöbel

# ■ WB-27

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S309

# **Network Design**

Stream: Production, Service and Supply Chain Man-

agement

Chair: Roland Braune

 Three-steps approach to design the distribution network

Imma Ribas, Amaia Lusa, Albert Corominas, Manuel Mateo

- 2 Designing the distribution network of services Amaia Lusa, Imma Ribas, Albert Corominas, Manuel Mateo
- 3 Lagrangian heuristics for the location-allocation problem with stochastic demand and congestion Pratibha Saini, Sachin Jayaswal, Navneet Vidyarthi
- 4 Aggregation and relaxation approaches for a multiperiod network design problem

. Roland Braune

### ■ WB-28

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S310

### Scatter Search and Path Relinking

Stream: Memory-based Heuristics

Chair: Jesus Sanchez-Oro

1 - A critical-path based evolutionary algorithm for the flexible job-shop scheduling problem

Grigoris Kasapidis, Dimitris Paraskevopoulos, Panagiotis Repoussis, Christos Tarantilis

2 - GRASP with path relinking for a multi-objective waste management problem

Laura Delgado Antequera, Jesus Sanchez-Oro, Rafael Caballero, Rafael Marti

3 - An application of tabu search to a circular layout problem

Eduardo G. Pardo, Juan David Quintana Pérez, Abraham Duarte, Manuel Laguna

4 - Improving the quality of hierarchical graph drawings with hybrid VNS-SS

Jesus Sanchez-Oro, Anna Martínez-Gavara, Manuel Laguna, Rafael Marti, Abraham Duarte

### ■ WB-29

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S311

### **Cutting and Packing II**

Stream: Cutting and Packing

Chair: Tony Wauters

1 - Solving the 3D bin packing problem: improved heuristic solutions for a case in the automotive industry

Andreas Beham, Roland Hanghofer, Stefan Wagner, Michael Affenzeller

2 - Open source simulation tool to evaluate dynamic stability metrics for the container loading problem

David Álvarez-Martínez, Juan Camilo Martínez, Daniel Cuellar-Usaquen

3 - A GRASP algorithm for multi container loading problems with practical constraints

Francisco Parreño, Maria Teresa Alonso Martínez, Ramon Alvarez-Valdes

 4 - A parallel tree based approach for the 3D cutting and packing problem

Everton Fernandes da Silva, Tony Wauters

### ■ WB-30

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S312

# Strategic Customers in OM Games

Stream: Game Theory and Operations Management Chair: *Anton Ovchinnikov* 

1 - Strategic service operations of two-sided market platform with backward compatibility

Dohoon Kim

2 - A cooperative game approach to the job scheduling problem

Eric Bahel, Christian Trudeau

3 - Sharing the revenues from broadcasting sport events

Gustavo Bergantinos, Juan D. Moreno-Ternero

 Strategic consumer behavior in premium-status loyalty programs

Anton Ovchinnikov

### ■ WB-31

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S313

# **Behavioural Operations and Games II**

Stream: Behavioural OR Chair: *Ilkka Leppanen* 

 The impact of competition on product and process development decisions: evidence from a behavioral experiment

Margarita Gladkova, Timofey Shalpegin

2 - Suppliers' learning: aggregate and individual levels Mohsen Ahmadian, Roger Blake, Ehsan Elahi 3 - Behavior of the agent when the information is distorted by the principal

Andrei Matveenko

4 - Building a hierarchical evaluation model by using interpretive structural modeling: a case study of ERP implementation risks

Ilker Gölcük, Adil Baykasoğlu

# ■ WB-32

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S314

# **Vehicle Routing**

Stream: Routing, Logistics, Location and Transporta-

tion

Chair: Pedro Castellucci

1 - A systematic intelligent solution for parts logistics optimization

Wenlian Lu, Yaoting Huang, Boyu Chen, Zhongxiao Jin

2 - Integrated maintenance tail assignment considering heterogeneous fuel consumption

Manuel Fuentes, Luis Cadarso

3 - A practical routing model in terms of reliability of arrival time to destination

Yoichi Shimakawa, Hiroyuki Goto, Yohei Kakimoto

4 - A logic-benders decomposition algorithm for a network scheduling problem with cross-docking Pedro Castellucci, Alysson Costa, Franklina Toledo

### ■ WB-33

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S315

# New Applications and Perspectives I

Stream: Data Mining and Statistics

Chair: Pakize Taylan

1 - Do we need more advanced and complex model to predict micro-enterprises failures?

Aneta Ptak-Chmielewska

- 2 Nudgital: critique of a behavioral political economy Julia Puaschunder
- 3 Discrete analogues of bivariate continuous distributions

Alessandro Barbiero

4 - Modelling and managing dynamic pricing strategy for an intensive competitive battle in the drugs industry, using "agile" system dynamics Kim Warren

### ■ WB-34

Wednesday, 10:30-12:00 - SOUTH BUILDING UV S113

### Recent Advances in DC Programming

Stream: DC Programming and DCA

Chair: Hoai An Le Thi

- 1 On DC decompositions of polynomials: from DSOS decomposition to DSOSC decomposition Yi-Shuai Niu
- 2 DCA based algorithms for solving a class of mathematical programs with equilibrium constraints

  Thi Minh Tam Nguyen, Hoai An Le Thi
- 3 A DC programming approach for robust joint beamforming and artificial noise security scheme Phuong Anh Nguyen, Hoai An Le Thi
- 4 A collaborative approach based on DCA and VNS for solving mixed binary linear programs Sara Samir, Hoai An Le Thi

### ■ WB-49

Wednesday, 10:30-12:00 - 4D UPV B.4

# **Emerging Applications in Portfolio Selection**

Stream: Emerging Applications in Portfolio Selection

and Management Science

Chair: John Lamb

 A robust portfolio optimization model based on minimax regret

Sandra Caçador, Pedro Godinho, Joana Matos Dias

2 - A particle swarm optimization variant for the cardinality constraint portfolio selection problem

Ilaria Foroni, Alessandro Avellone

3 - Homogeneous subsets for portfolio selection John Lamb, Elmira Mynbayeva

# ■ WB-50

Wednesday, 10:30-12:00 - 4D UPV 1.1

# **OR for Developing Countries V**

Stream: OR for Developing Countries

Chair: Herman Mawengkang Chair: Olabode Adewoye

 1 - An optimization model to tackle health service demand problem for public hospitals

M. Irfan Fahmi, Herman Mawengkang

2 - An interactive approach for solving multi-objective model of waste management in crude palm oil industry

Meslin Silalahi, Herman Mawengkang

3 - An electricity reform model for developing countries Olabode Adewoye 4 - A mixed- integer programming model for production - distribution planning of crude palm oil industry Hendaru Sadyadharma, Avery Boy Detinty, Herman Mawengkang

### ■ WB-51

Wednesday, 10:30-12:00 - 4D UPV 1.2

# **Optimization Models in Health Care**

Stream: OR for Health and Care II

Chair: Metin Turkay

Chair: Fadime Üney-Yüksektepe

1 - Comparison of cervical cancer screening recommendations under different perspectives using a POMDP model

Malek Ebadi, Raha Akhavan-Tabatabaei, J.b.g. Frenk

- 2 Combining interventions to improve neonatal care services performance: a system dynamics model Reda Lebcir
- **3 Markov process models in primary-care clinics** *Zhimin Huang, Susan Li*
- 4 Combining soft or methods with simulation techniques for sustainability analysis

Masoud Fakhimi, Anastasia Anagnostou, Navonil Mustafee, Lampros Stergioulas

# **■** WB-52

Wednesday, 10:30-12:00 - 4D UPV 1.3

# **Network Revenue Management**

Stream: Analytics and Pricing

Chair: Darius Walczak

- Data science approach to value based pricing David McCaffrey
- 2 Price list optimization for free-floating car sharing systems

Matthias Soppert, Claudius Steinhardt

3 - Pricing in the energy field

Luce Brotcorne, Sébastien Lepaul, Léonard von Niederhäusern

 4 - Dynamic programming decomposition approaches to the network revenue management and pricing problems

. Darius Walczak, Ravi Kumar

### ■ WB-53

Wednesday, 10:30-12:00 - 4D UPV 1.4

# Renewable Energy and Storage

Stream: Stochastic Assessment of Renewable Energy

Chair: Benjamin Böcker

- 1 Unit commitment under imperfect foresight the impact of stochastic photovoltaic generation

  Jens Weibezahn, Jan Zepter
- 2 Improving deployment availability of energy storage with data-driven AGC signal models

Audun Botterud, Ying Wang, Can Wan, Zhi Zhou, Kaifeng Zhang

- 3 A multi-stage stochastic generation capacity expansion planning model under energy policies

  Heejung Park, Ross Baldick
- 4 Stochastic battery valuation considering multiple value streams

Benjamin Böcker, Rudiger Kiesel, Christoph Weber

# **■** WB-54

Wednesday, 10:30-12:00 - 4D UPV 1.6

### Logistics applications

Stream: Applied OR Chair: Geir Hasle

 Modelling the acquisition plan of LPG cylinders with reverse logistics

Isabel Cristina Lopes, Eliana Costa e Silva, Aldina Correia, Rui Borges Lopes, Magda Monteiro

Optimization of wave picking operations in a 3PL warehouse

Dilara Aykanat, Onur Can Saka, Erdinc Comert, Esin Altin

- 3 Materials handling application for Industry 4.0 Gizem Mullaoğlu, Sencer Yeralan
- 4 A comparison of different curbside waste collection systems

Sanne Wøhlk, Hani Zbib, Marcel Turkensteen

# **■** WB-55

Wednesday, 10:30-12:00 - 4D UPV 2.1

# Getting on in OR

Stream: Making an Impact I

Chair: Ruth Kaufman

1 - Getting on in OR

Ruth Kaufman

### ■ WB-56

Wednesday, 10:30-12:00 - 4D UPV 2.2

# **Hospital Logistics**

Stream: Healthcare Logistics

Chair: Marion Rauner Chair: Fermin Mallor 1 - Solving the operating room scheduling problem maximizing patients' preferences

Ana RamonBaviera, Francisco Ballestin

2 - Insight into the emergency department physicians' problem about managing their patients flow

Marta Cildoz, Amaia Ibarra, Fermin Mallor

3 - Hospital resource planning for mass casuality events: a DES-based case study of a major Viennese hospital

Marion Rauner, Daniel Staribacher, Helmut Niessner

# ■ WB-57

Wednesday, 10:30-12:00 - 4D UPV 2.3

# Software for Nonlinear & Parallel Optimization

Stream: Software for Optimization

Chair: Imre Polik

1 - Tuning the global optimization solver BARON using derivative-free optimization algorithms

Nikolaos Ploskas, Jianfeng Liu, Nikolaos Sahinidis

2 - SUSPECT: MINLP special structure detector for Python

Francesco Ceccon, Ruth Misener

3 - Optimizing large-scale linear energy problems with block diagonal structure by using parallel interiorpoint methods

Daniel Rehfeldt

4 - ParaXpress - a massively parallel mixed integer linear programing solver with the potential to harness over a million CPU cores

Yuji Shinano, Timo Berthold, Stefan Heinz

# ■ WB-58

Wednesday, 10:30-12:00 - 4D UPV 2.4

# **Machine Learning and Data Analysis III**

Stream: Emerging Applications of Data Analysis

Chair: Ivan Reyer

Chair: Sureyya Ozogur-Akyuz

- 1 Multivariate copulas in Bayesian classification Jan Górecki
- 2 Gaussian Bayesian networks and Gaussian mixture models applications of day-ahead forecast for the Spanish electricity market supply curves Diego Gomez
- 3 Real-time crash prediction in an urban expressway using disaggregated data

Franco Basso, Leonardo Basso, Francisco Bravo, Raul Pezoa

4 - Managing uncertainty using human centric analytics (HCA): a longitudinal case study

Christina Phillips

### ■ WB-59

Wednesday, 10:30-12:00 - 4D UPV 2.5

# Stochastic Aspects of Energy Management

Stream: Technical and Financial Aspects of Energy

**Problems** 

Chair: Raimund Kovacevic

 Explicit solutions of stochastic energy storage problems

Martin Densing

 Multi-scale scenario generation for a power plant valuation problem

Martin Glanzer, Debora Daniela Escobar, Georg Pflug, Wim van Ackooij

 3 - Dynamic stochastic programming. applications for the valuation of a coal power plant

Debora Daniela Escobar, Martin Glanzer, Georg Pflug, Wim van Ackooij

 4 - Arbitrage conditions on a market with electricity production from fuel

Raimund Kovacevic

# ■ WB-60

Wednesday, 10:30-12:00 - 4D UPV B.5

#### **Vendor Sessions**

Stream: EURO Special Sessions

Chair: Simon Jones

1 - Model-based optimization with AMPL: From prototyping to deployment

Robert Fourer

2 - What's new in Gurobi 8.0

Kostja Siefen

3 - How to get published in research journals

Simon Jones

# Wednesday, 12:30-14:00

# **■ WC-01**

Wednesday, 12:30-14:00 - UPV Nexus

# Online Optimization for Dynamic Matching Markets

Stream: Keynotes Chair: Bernard Fortz

1 - Online Optimization for Dynamic Matching Markets
Patrick Jaillet

### ■ WC-02

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S101

# Innovative Applications I

Stream: DEA: Applications

Chair: José Dulá

Performance evaluation of mobile network operators in Japan

Norihiro Hayakawa, Yasufumi Saruwatari

2 - Applying DEA on accounting data to assess Spanish chemical companies: an analysis based on size and region

Amalia Rodrigo-González, Amparo Ruiz-Llopis

3 - Assessing performance in international mathematics competitions

Stella Sofianopoulou

 4 - Post-modern DEA: DEA knowledge and skills for novel and innovative applications José Dulá

### ■ WC-03

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S103

# Stochastic Modeling of Production Systems

Stream: Production and Operations Management Chair: Çerkez Ağayeva

 Optimal harvesting policies to reduce the number of setups in biomanufacturing

Yesim Koca, Tugce Martagan, Lisa Maillart, Ivo Adan

2 - Exploiting random lead times for significant inventory cost savings

Qiong Wang, Alexander Stolyar

3 - A production queueing system in which product quality may deteriorates during processing. Kuo-Hwa Chang 4 - Problems of singularity for stochastic switching systems with restrictions

Çerkez Ağayeva

### ■ WC-04

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S104

# Optimal Control Applications II

Stream: Optimal Control Applications

Chair: Fabricio Oliveira

1 - Analysis of serial production lines with phase-type processing times

Özgün Öztürk, Onder Bulut

 2 - Managing logical constraints in 4D optimal trajectory planning for multiple aircraft

Dinesh Babu Seenivasan, Alberto Olivares, Ernesto Staffetti

 Refining replenishment policies with the internet of things: a control-theoretic approach

Christos Papanagnou

 4 - Revisiting inventory control using stochastic programming

Fabricio Oliveira

# **■ WC-05**

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S105

# **Heuristics for Vehicle Routing Problems I**

Stream: Vehicle Routing and Logistics Optimization I Chair: Daniele Vigo

- 1 Fleet composition for last-mile delivery service Frédéric Semet, Ekaterina Alekseeva, Luce Brotcorne
- 2 SISRs slack induction by string removals for vehicle routing problems

Jan Christiaens

3 - A static move descriptor-based heuristic for the vehicle routing problem

Daniele Vigo, Luca Accorsi, Wout Dullaert, Birger Raa

4 - A two-phase solution algorithm for the flexible periodic vehicle routing problem

Claudia Archetti, Elena Fernandez, Diana Lucia Huerta Muñoz

# **■ WC-06**

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S106

# Stochastic Modeling in Queuing Systems

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

Chair: Hiroshi Toyoizumi

 Cost-benefit analysis of four availability retrial models with warm standby components and general repair times

Kuo-Hsiung Wang

2 - Modelling of Bernoulli arrival process subject to binomial catastrophes

Nitin Kumar, Umesh Gupta

3 - M/M/? stochastic dynamic networks with joins and leaves

Hiroshi Toyoizumi

# ■ WC-07

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S107

# Scheduling with Resource Constraints II

Stream: Scheduling with Resource Constraints Chair: Pedro Alfaro-Fernandez

 1 - A novel disruptive innovation-like algorithm for single machine scheduling with sequence-dependent setup times

Chun-Lung Chen

2 - Minimizing the weighted tardiness penalties for parallel machines scheduling based on ATC dispatching rule

Gen-han Wu, Wang-Xian Li

3 - Hybrid flow shop to minimize makespan: efficient constructive heuristics

Victor Fernandez-Viagas, Jose M. Molina-Pariente, Manuel Burgos, Paz Perez Gonzalez, Jose M Framinan

4 - Flow shop scheduling problem with additional resources

Pedro Alfaro-Fernandez, Ruben Ruiz

### ■ WC-08

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S108

# **Topics in Combinatorial Optimization**

Stream: Combinatorial Optimization I

Chair: Valentina Cacchiani

- 1 Approximating the incremental knapsack problem Ulrich Pferschy, Federico Della Croce, Rosario Scatamacchia
- 2 Fractional knapsack problem with penalties: models and algorithms

Michele Monaci, Enrico Malaguti, Paolo Paronuzzi, Ulrich Pferschy

3 - A path-based formulation for the 2-reservoir hydro unit commitment problem

Dimitri Thomopulos, Wim van Ackooij, Pascal Benchimol, Claudia D'Ambrosio

4 - On the value of integration in supply chain planning Martin Kidd, Maryam Darvish, Leandro Coelho

### **■** WC-09

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S109

# Integrating Machine Learning in Optimization Methods

Stream: European Working Group: Data Science

Meets Optimization Chair: *Kevin Tierney*  1 - A data science approach for OD matrix analysis in transportation modelling

Lídia Montero, Jaume Barceló, Xavier Ros-Roca

2 - Optimization of Shows Schedules on Linear Television

Sebastian Souyris, Jaime Miranda

3 - Online algorithm selection for operational-level combinatorial optimisation problems

Hans Degroote, Lars Kotthoff, Jose Luis Gonzalez-Velarde, Bernd Bischl. Patrick De Causmaecker

4 - Deep learning assisted heuristic tree search for the container pre-marshalling problem

André Hottung, Shunji Tanaka, Kevin Tierney

# ■ WC-10

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S110

# **MCDA and Environmental Management II**

Stream: Multiple Criteria Decision Aiding

Chair: Luisa Paolotti

Chair: Filippo Fiume Fagioli

 1 - A multi-criteria decision framework for the selection of biomass separation equipment

Pablo Brito-Parada, Junko Hutahaean, Jan Cilliers

2 - Towards the generation of social entrepreneurial impact in the traditional wood and biomass sector: a multi-criteria decision aid perspective

Olga Porro, Nuria Agell, Mónica Sánchez

3 - The Willingness to Pay for Sustainable Supplier Selection

Mehrnoosh Enjelasi, Behnam Fahimnia, Andrew Collins

4 - MCDA approach to the internal migration of regions: case of Serbia

Mladen Stamenković, Salvatore Corrente, Maja Jandric

# ■ WC-11

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S111

# **Dynamic Games in Operations Research**

Stream: Applications of Dynamical Models

Chair: Margarida Lopes

 Price, time, and reliability competition for service delivery

Ata Jalili Marand, Hongyan Li, Anders Thorstenson

2 - A bi-level optimization formulation of priority service pricing

Yuting Mou, Anthony Papavasiliou, Philippe Chevalier

- 3 Optimization of lot size flow with linking cost and individual profit of bargaining players of various tier wise purchasing capacities in supply chain network Prem Prakash Mishra
- 4 Post-merger internal organization in multitier decentralized supply chains

Margarida Lopes, Duarte Brito

# ■ WC-12

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S112

# **Port Operations**

Stream: Maritime Transportation

Chair: Eva Vallada

 1 - A new lower bound and an iterative deepening hashbased branch-and-bound algorithm for container pre-marshalling

Consuelo Parreño Torres, Shunji Tanaka, Kevin Tierney, Ramon Alvarez-Valdes, Ruben Ruiz

2 - A fast heuristic for the container pre-marshalling problem

. Noemí Elizabeth Castañeda, Gerardo Minella, Ruben Ruiz

3 - Yard crane scheduling in Valencia's largest container terminal

Gerardo Minella

4 - Metaheuristics for the yard crane scheduling problem in a port container terminal

Eva Vallada, Fulgencia Villa, Ramon Alvarez-Valdes, Jose M. Belenguer

# ■ WC-13

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S201

### Credit Card Risk Management

Stream: Financial Modeling, Risk Management and Managerial Accounting

Chair: Jonathan Crook

- 1 Optimal model selection in credit risk modeling Marta Galvani, Silvia Figini
- 2 Predicting credit card debt recovery rates: an empirical study using generalised additive models
  Christophe Mues, Raffaella Calabrese, Mee Chi (Meko) So
- Regulatory policy to mitigate potential risks arising from contingent convertibles

Masaaki Kijima

4 - Survival models for credit cards with time varying coefficients

Jonathan Crook, Viani Djeundje

# **■** WC-14

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S202

#### ETHOR III Ethics and OR

Stream: OR and Ethics Chair: Pierre Kunsch Chair: Cathal Brugha Chair: Dorien DeTombe

- 1 Modelling ethical level in financial entity performance appraisal: assessment in a multi-dimensional framework using data envelopment analysis

  Don Galagedera
- 2 Ethical investment performance: evidence from the portfolio theory perspective

Noureddine Kouaissah, Sergio Ortobelli

3 - Optimization problems in designing a post-disaster relief system

Bela Vizvari

4 - Using soft systems methodology to incorporate ecological ethics and systems thinking in education Lady Johanna Peñaloza-Farfán, Alberto Paucar-Caceres

# **■ WC-15**

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S203

#### Scheduling Theory II

Stream: Scheduling Theory

Chair: Rafael Moras

 Maximizing the weighted number of just-in-time jobs in a two-machine flow-shop system with scenario dependent job parameters Miri Gilenson, Dvir Shabtay

 Relationship between common objective functions, idle time and waiting time in permutation flowshop scheduling

Kathrin Maassen, Paz Perez Gonzalez, Jose M Framinan

- 3 Spectrum allocation problem in OFDM networks Yash Aneja, R. Chandrasekaran, Xiangyong Li
- 4 Antithetic sequences in flowshop scheduling: special cases of monster cell dominance

Rafael Moras, Gopalakrishnan Easwaran, Paul Uhlig

### **■ WC-16**

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S115

### **Graphs and Networks**

Stream: Graphs and Networks

Chair: Reinhardt Euler

1 - A dynamic programming approach for computing allterminal reliability of small networks with uniform probability

Naoya Makiishi, Natsumi Takahashi, Shao-Chin Sung

2 - Models and algorithms for transmission line route planning

Bernhard Primas, Natalia Shakhlevich

3 - Distributed leader election in wireless and IoT networks

Ahcene Bounceur, Madani Bezoui, Reinhardt Euler, Loic Lagadec, Mohammad Hammoudeh

4 - Boundary detection in wireless sensor networks by means of linear programming

Reinhardt Euler, Mohand Bentobache, Ahcene Bounceur

### ■ WC-17

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S205

# Simulations and Queueing Systems

Stream: Stochastic and Robust Optimization Chair: Anders Reenberg Andersen

1 - Development of a bushfire evacuation support tool using workspace

Leorey Marquez, Vincent Lemiale, Rajesh Subramanian, Joel Robertson, Tim Gazzard, Peter Ashton

2 - A comprehensive comparison of confidence lower bound estimation methods for Weibull lower percentiles in small samples

Burak Birgoren, Meryem YalÇinkaya

3 - Heuristic room type allocation for nursing wards Anders Reenberg Andersen, Wim Vancroonenburg, Greet Vanden Berghe

# ■ WC-18

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S206

#### Traffic Flow and Control

Stream: Transportation Chair: Paulina Reina

1 - Estimating a spatiotemporal network of urban traffic flows

Dmitry Pavlyuk

2 - Data-driven spatio-temporal analysis of public transport usage in a metropolitan area

Merve Bakar, Gultekin Kuyzu

3 - Unfairness constrained system optimal routing of traffic flows on road networks

Valentina Morandi, Enrico Angelelli, M. Grazia Speranza

4 - Spatio-temporal characteristics of freeway traffic state transitions

Paulina Reina, George Saman

# ■ WC-19

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S207

# Exploring Production/Inventory Systems via Probability Models

Stream: Supply Chain Management I

Chair: Barış Balcıoğlu

1 - Condition-based production planning: adjusting production rates to balance output and failure risk

Ruud Teunter, Michiel uit het Broek, Bram de Jonge, Nicky Van Foreest

2 - Joint pricing and replenishment decisions for an inventory system with a randomly fluctuating supply price process

Fikri Karaesmen, Caner Canyakmaz, Suleyman Ozekici

- 3 Performance analysis of the extended-two-criticalnumber policy in different make-to-stock systems Onder Bulut, Sinem Özkan
- 4 Dynamic pricing and lead time quotation in a maketo-stock queue

Barış Balcıoğlu

# ■ WC-20

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S301

# **Decision Support for Medical Applications and Health Policy**

Stream: Decision Analysis and Decision Support Sys-

tems

Chair: Aron Larsson

1 - A data-based decision analytic approach for designing optimal testing and treatment strategies Lauri Neuvonen

2 - A decision support system for Parkinson disease management: models for suggesting medication

Marko Bohanec, Dragana Miljković, Anita Valmarska, Biljana Mileva-Boshkoska, Elisabetta Gasparoli, Giovanni Gentile, Konstantinos Koutsikos, Andrea Marcante, Angelo Antonini, Dimitrios Gatsios, George Rigas, Dimitrios Fotiadis, Kostas Tsiouris, Spiros Konitsiotis

3 - Do healthcare workers need cognitive-computing technologies?

Arthur Carvalho

4 - Decision appraisal framework for pandemic influenza interventions

Tobias Fasth, Anton Talantsev, Aron Larsson, Lisa Brouwers

### ■ WC-21

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S303

# Applications of Smooth Nonconvex Programming

Stream: Nonlinear Programming: Theory

Chair: Hector Ramirez

Feasibility and cost minimisation for a lithium extraction problem

Paul Bosch, Juan Pablo Contreras, José Saavedra-Rosas

2 - An interior algorithm for nonlinear conic programs: application to classification problems

Julio López, Miguel Carrasco, Alfredo Canelas

- 3 Double regularization methods for robust feature selection and SVM classification via DC programming Miguel Carrasco, Julio López, Sebastian Maldonado
- 4 Subdifferential characterization of Gaussian probability functions

Pedro Perez-Aros, Abderrahim Hantoute, Rene Henrion

# **■ WC-22**

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S304

# **Evolutionary Multiobjective Optimization Methods**

Stream: Multiobjective Optimization

Chair: Ernestas Filatovas

- Decomposition-based interactive evolutionary optimization guided by multiple search directions compatible with indirect preference information
   Michał Tomczyk, Milosz Kadzinski
- 2 An evolutionary approach to constrained manyobjective combinatorial optimization Mert Sahinkoc, Ümit Bilge
- 3 An integrated approach for evaluation of facility layout alternatives

Esra Duygu Durmaz, Ramazan Sahin

4 - A preference-based multiobjective evolutionary algorithm with controllable approximation accuracy

Ernestas Filatovas, Ignacy Kaliszewski, Olga Kurasova, Janusz Miroforidis

### **■** WC-23

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S305

# Lot Sizing IV - Integrated Models

Stream: Lot Sizing, Lot Scheduling and Production

Planning Chair: *Nabil Absi*  1 - A mathematical programming approach to product line decisions

Xavier Andrade, Luis Guimarães, Gonçalo Figueira

2 - Decomposition of sequence dependent setup times in simultaneous lot sizing, scheduling, workforce, overtime and shift planning

Gorkem Yilmaz, Cevdet Utku Şafak

3 - A simple heuristic for the supply vehicle routing and lot sizing problem enhanced by genetic programming

Fanny Hein, Christian Almeder

4 - Comparing sequential and integrated approaches for the production routing problem

Nabil Absi, Claudia Archetti, Stéphane Dauzere-Peres, Dominique Feillet, M. Grazia Speranza

# **■ WC-24**

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S306

# **Convexity and Global Optimization**

Stream: Global Optimization

Chair: Janos D. Pinter

1 - Necessary optimality conditions for some nonconvex facility location problems

Marcus Hillmann

Conditions on optimality and non-optimality in global optimiztaion

. Pál Burai

3 - A global minimization algorithm for concave quadratic programming

Mohand Bentobache, Mohamed Telli, Abdelkader Mokhtari

4 - Packing general convex sets into polygons Janos D. Pinter, Frank Kampas, Ignacio Castillo

### ■ WC-25

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S307

# Combinatorial Optimization in Assembly Systems

Stream: Combinatorial Optimization II

Chair: Olga Battaïa Chair: Erwin Pesch

 1 - An exact approach for sequencing assembly lines to facilitate just-in-time part feeding

Simon Emde, Lukas Polten

2 - An improved mathematical formulation for the production planning problem in additive manufacturing and 3D printing

F. Tevhide Altekin

 Task assignment in assembly lines with physical and cognitive ergonomic constraints

Olga Battaïa, Dmitry Arkhipov

# **■ WC-26**

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S308

# **Bike Sharing and Demand Prediction**

Stream: Public Transportation I

Chair: Dalila Fontes

 Setting incentives for user based relocation in free floating bike sharing systems

Christoph Heitz, Roman Etschmann, Thomas Bachmann, Raoul Stoeckle

 2 - A mathematical model to evaluate balancing strategies of bicycle sharing systems

Pablo Andrés Maya Duque, Diana Marcela Perez, Miguel Angel Arroyave

Incentives as a balancing mechanism in bike-sharing systems

Dalila Fontes, Ehsan Ali Askari, Sergiy Butenko

4 - Prediction methods improve bus services profitability

George Kireulishvili, Wolfgang Garn, James Aitken, Jane Hemsley-Brown

# ■ WC-27

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S309

# **Reverse Logistics / Remanufacturing**

Stream: Production, Service and Supply Chain Man-

agement

Chair: Sandeep Mondal

1 - A robust mathematical model to optimize an electronic reverse logistics network

Saman Hassanzadeh Amin, Babak Mohamadpour Tosarkani

- 2 Revenue management in remanufacturing under competition, cannibalization, and customer behavior Nughthoh Arfawi Kurdhi, Shaunak Dabadghao, Jan Fransoo
- 3 Mixture reliability analysis of a product consisting of new and remanufactured components

Sandeep Mondal, Kampan Mukherjee, Kaustov Chakraborty

### ■ WC-28

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S310

### **Tabu Search**

Stream: Memory-based Heuristics

Chair: Rafael Marti

 New advanced heuristic methods for the VRP problem family

Piotr Sielski, Piotr Cybula, Marek Rogalski, Piotr Beling, Andrzej Jaszkiewicz

- 2 Tabu search for hub location with modular links Juanjo Peiró, Fred Glover, Angel Corberan, Rafael Marti
- **3 Heuristics for the bi-objective diversity problem** *J. Manuel Colmenar, Abraham Duarte, Rafael Marti*
- 4 Diversity, dispersion, and equity models
  Rafael Marti, Abraham Duarte, Anna Martínez-Gavara

# **■** WC-29

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S311

# **Cutting and Packing III**

Stream: Cutting and Packing Chair: Maria Teresa Alonso Martínez

1 - An approach for the pallet building problem and subsequent loading in a heterogeneous fleet of vehicles considering practical packing constraints

Daniel Cuellar-Usaquen, Guillermo Camacho, David Álvarez-Martínez

 MultiCapableWarehousePackagingOperators in vegetable and fruit warehouses

Wim De Bruyn

3 - Beam search for the 2D-single knapsack problem Marta Cabo Nodar, Julia Bennell, Antonio Martinez Sykora, Carlos Alegría

4 - Solving the pallet-loading vehicle routing problem with stability constraints

Maria Teresa Alonso Martínez, Antonio Martinez-sykora, Julia Bennell, Ramon Alvarez-Valdes, Francisco Parreño

# ■ WC-30

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S312

# Sharing in Transportation

Stream: Transportation and Logistics

Chair: Francesca Maggioni Chair: Rossana Cavagnini

1 - Pricing strategy for ride-sourcing platforms

Luoyi Sun, Ruud Teunter, Guowei Hua

2 - Optimal rebalancing for bike sharing systems with information-assisted riders

Mohammad Javad Feizollahi, Xinchang Wang

3 - Locating take-off and landing sites for a VTOL-based ridesharing network in urban areas

Nitin Ahuja, Melanie Reuter-Oppermann

4 - Multi-objective stochastic optimization models for managing a bike sharing system

Rossana Cavagnini, Luca Bertazzi, Francesca Maggioni, Mike Hewitt

# ■ WC-31

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S313

# **Academic OR and Approaches**

Stream: Soft OR, Problem Structuring Methods and

Behavioural OR Chair: *Cigdem Kadaifci* Chair: *Ilker Gölcük* 

1 - Analysis of factors affecting the choice of academic conferences to participate

Cigdem Kadaifci, Umut Asan, Y. Ilker Topcu

2 - Problem-structuring method for safety analysis in the laboratory of injection systems for liquid propellants

Moacyr Machado Cardoso Junior, Marco Antonio Albuquerque, Luís Eduardo Loures da Costa, Sarah Francisca de Souza Borges, Mischel Carmen N. Belderrain

 3 - Command and control (C2) enhancement in the management of air force logistic projects using multimethodology

Thiago Dias, Daniel Pamplona, Tadeu Vale, Mischel Carmen N. Belderrain

# **■ WC-32**

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S314

# Dynamic Models in Game Theory I

Stream: Dynamic Models in Game Theory Chair: *Anton Bondarev* 

 Repeated games for analysis of agreements on protection of the environment

Alexander Vasin, Anastasiia Divtsova

2 - Feedback strategies first-order zero-sum mean field type differential games

Yurii Averboukh

3 - Due date quotations in an observable make-to-order system with strategic customers and the effects of customer risk-aversion

Myron Benioudakis, George Ioannou, Apostolos Burnetas

4 - How optimal control may avoid chaotic dynamics: market inefficiency in asymmetric multi-modal differential games

Anton Bondarev

### **■ WC-33**

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S315

# New Applications and Perspectives II

Stream: Data Mining and Statistics

Chair: Pakize Taylan

 1 - Time series forecasting of driving patterns using LSTM recurrent neural networks for energy management of plug-in vehicles

Orkun Karabasoglu, Damla Kesikburun, Deniz Türsel Eliiyi

2 - Network methods for fraud detection in the anti-fraud database

Michele Tumminello, Andrea Consiglio, Fabio Farabullini, Riccardo Cesari

3 - An assessment of the use of machine learning in modern ERP systems to provide competitive advantage for manufacturing companies

Mahmoud Abdelrahman, Christian Askvik-Hansen, Jamie Dyer, Carl McLaughlin, Aaron Wilcock

4 - The refugee game: blame thy neighbor for terrorism Andreas Novak, Joao Faria, Aniruddha Bagchi, Timothy Mathews

### ■ WC-34

Wednesday, 12:30-14:00 - SOUTH BUILDING UV S113

# Game Theory and Mathematical Economics

Stream: Game Theory and Mathematical Economics Chair: Alper Nakkas

- The impact of valuation heterogeneity on equilibrium prices in supply chain networks Alper Nakkas
- 2 Retiree decision making and parameter interchangeability under Epstein-Zin preferences Asiye Aydilek, Harun Aydilek
- 3 Dominance in game theory: new concepts Gabriel Solari Carbajal
- 4 Price zones and investment incentives in electricity markets: an application of multi-level optimization with graph partitioning

Mirjam Ambrosius, Veronika Grimm, Thomas Kleinert, Frauke Liers, Martin Schmidt, Gregor Zöttl

# ■ WC-48

Wednesday, 12:30-14:00 - 4D UPV B.3

# OR in Water Management

Stream: OR in Water and Hydro Energy Management Chair: Corinna Hallmann

Optimization of booster disinfection stations in water distribution networks

Caglayan Sert, A. Burcu Altan-Sakarya

2 - A model for optimal water resources allocation: a special application to the Lake Chad Basin

Noe Careme Fouotsa Manfouo

- 3 Sparse polynomial optimization for water networks
  Bissan Ghaddar, Mathieu Claeys, Martin Mevissen, Bradley
  Eck
- 4 Generating models for water distribution systems Corinna Hallmann, Stefan Kuhlemann

# ■ WC-49

Wednesday, 12:30-14:00 - 4D UPV B.4

# **Emerging Applications in Management Science**

Stream: Emerging Applications in Portfolio Selection and Management Science Chair: *Juana-Maria Vivo-Molina* 

 Evaluating risks in agri-food value chain in developed and developing economies: a multistakeholder perspective

Sonal Choudhary, Manish Shukla, Mike Simpson, Rakesh Nayak

- 2 Attribution and timing for revenue growth in knowledge-intensive organizations
  A. D. Amar, Januj Juneja
- 3 Estimation of a load-sharing model for twocomponent parallel systems Juana-Maria Vivo-Molina, Manuel Franco
- 4 Analyzing the effects of health policies on the public benefit through simulation

Aydin Teymourifar, Onur Kaya, Gurkan Ozturk

# **■** WC-51

Wednesday, 12:30-14:00 - 4D UPV 1.2

# **Health Informatics and Modeling**

Stream: OR for Health and Care II Chair: Joel Joris Van de Klundert

1 - Improving trauma outcome prediction models using patients' vital signs

Fatima Almaghrabi, Dong-Ling Xu, Jian-Bo Yang

- 2 Screening for breast cancer: the role of supplemental tests and breast density information

  Burhaneddin Sandikci
- 3 Investigative study on using standardized implants for knee and hip joint replacement and its effect on lifestyle post surgery in India Rashmi Shahu
- 4 Modelling why and when Chinese citizens bypass primary care

Joel Joris Van de Klundert, Qingxia Kong

# **■ WC-52**

Wednesday, 12:30-14:00 - 4D UPV 1.3

# **Pricing and Revenue Management II**

Stream: Analytics and Pricing

Chair: Luce Brotcorne

- 1 Choice of mixed opaque marketing strategy of OTA Zhaofang Mao, Xiaomei Li
- 2 Consumers' willingness to pay and firms' cost differentiation on price competition for multiple bundles Juan Perez, Héctor López-Ospina, Álvaro Flores
- 3 Optimizing conditional value-at-risk in dynamic pricing

Jochen Gönsch, Michael Hassler, Rouven Schur

 4 - From revenue management to profit management: capacity control via dynamic stochastic programming

Giovanni Giallombardo, Francesca Guerriero, Giovanna Miglionico

# **■** WC-53

Wednesday, 12:30-14:00 - 4D UPV 1.4

### Energy Management

Stream: Stochastic Assessment of Renewable Energy Chair: John Boland

- Computing energy system transformation pathways with high spatial and temporal resolution Manuel Wetzel
- 2 Energy consumption scheduling of electrical devices with various types in a household

Ümmühan Başaran Filik, Oguzkagan Alic

3 - Do smart grids increase solar homes price premiums?

Chiara D'Alpaos, Michele Moretto

4 - Real options applied to South African electricity capacity expansion

Mantombi Bashe

# ■ WC-54

Wednesday, 12:30-14:00 - 4D UPV 1.6

# Applied OR at SINTEF

Stream: Applied OR Chair: Geir Hasle

- 1 The role of research organizations in SESAR 2020 Trond Bakken
- Multiagent planning in airport and air traffic management

Anders Albert

3 - Rolling stock maintenance scheduling

Daniel Palhazi Cuervo, Lukas Bach

4 - Scheduling professional football leagues

Lukas Bach, Oddvar Kloster, Celso Ribeiro

### **■ WC-55**

Wednesday, 12:30-14:00 - 4D UPV 2.1

# Agile SD: Hands On

Stream: Making an Impact I

Chair: Kim Warren

1 - Living business models: fast, effective, reliable

Kim Warren, Giancarlo Bigi

# **■** WC-56

Wednesday, 12:30-14:00 - 4D UPV 2.2

# Routing for Dial-a-Ride and Home Health Care Services

Stream: Healthcare Logistics

Chair: Kris Braekers Chair: Yves Molenbruch

Decomposition methods for the workforce scheduling and routing problem

Matthieu Gondran, Philippe Lacomme, Tchernev Nikolai,

Thierry Garaix, Dario Landa-Silva

2 - Dial-a-ride with real-time disruptions Célia Paquay, Yves Crama, Thierry Pironet

3 - On-demand public transport planning

Evelien van der Hurk

**4 - Integrating dial-a-ride services and public transport** *Yves Molenbruch, Kris Braekers, Patrick Hirsch, Marco* 

Oberscheider

# **■** WC-57

Wednesday, 12:30-14:00 - 4D UPV 2.3

# **Machine Learning or Operations Research**

Stream: Making an Impact I Chair: Ronald Buitenhek

1 - Machine learning or operations research: how can consultants provide the best advice to their customers?

Ronald Buitenhek, Tim van Luxemburg

### **■ WC-58**

Wednesday, 12:30-14:00 - 4D UPV 2.4

# **Data Analysis and Applications**

Stream: Emerging Applications of Data Analysis

Chair: Vadim Strijov Chair: Mariusz Kaleta 1 - Optimal clustering of stations for the bike sharing system in Seoul

Kwanghun Chung

Forecasting international migration based on a hybrid fuzzy and Bayesian method

Duygun Fatih Demirel, Melek Basak

3 - Influence maximization with deactivation in social networks

Kübra Tanınmış Ersüs, Necati Aras, I. Kuban Altinel

4 - Network market engineering - connecting the dots Mariusz Kaleta

# **■** WC-59

Wednesday, 12:30-14:00 - 4D UPV 2.5

# Decision Making under Uncertainty in Gas and Electric Energy Systems

Stream: Technical and Financial Aspects of Energy

**Problems** 

Chair: Miguel Carrión

 1 - A bi-objective multi-period optimization model for energy planning

Chandra Irawan, Peter Hofman

2 - The economics of daily natural gas demand in France and in the UK

Arthur Thomas, Olivier Massol

 3 - Development of a cost forecasting model on aviation service delay by low visibility

Hee Kyung Kim, Jae Ung Seok, Chang Won Lee

4 - Optimal management of combined-cycle gas units with gas storage under uncertainty

Hernán Gómez-Villarreal, Miguel Carrión, Ruth Dominguez

# ■ WC-60

Wednesday, 12:30-14:00 - 4D UPV B.5

### Meet the editors TOP

Stream: EURO Special Sessions

Chair: Gustavo Bergantinos

# Wednesday, 14:30-16:00

# ■ WD-01

Wednesday, 14:30-16:00 - UPV Nexus

# The hazards of trading volatility

Stream: Keynotes Chair: Rita D'Ecclesia

1 - The hazards of trading volatility

Carol Alexander

# ■ WD-02

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S101

# **Innovative Applications II**

Stream: DEA: Applications

Chair: Erdem Aksakal

 The DEA method and its application possibilities for measuring efficiency in the public sector Ewa Cichowicz, Ewa Rollnik-Sadowska

2 - A frontier model for public bidding in government procurement

Marcos Estellita Lins, Nilson Trevisan, Angela Cristina Moreira da Silva, José Dulá

3 - Using a MCDEA model for proposing a new efficiency indicator to manufacturing processes

Carlos Ushizima, Fernando Marins, Aneirson Silva, Erica Dias, Marcelo Figueiredo, Raphaela Bueno

4 - On the problem of benchmarking dependent decision making units and common inputs in DEA: measuring efficiencies of university faculties and careers within those faculties

Sonia Avilés-Sacoto, Wade Cook, David Güemes-Castorena, Joe Zhu

# ■ WD-03

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S103

# **Stochastic Inventory Control**

Stream: Production and Operations Management

Chair: Taher Ahmadi

1 - Capacity planning, resource utilization, and safety stock placement in a supply network

Foad Ghadimi, Tarik Aouam

2 - Controlling excess stock in (s, S) inventory systems with uncertain returns

Ben A. Chaouch

3 - Determining warehouse reorder point considering retailers' decision biases under (R,Q) policies Samantha Seayoung Park, Yong Won Seo

4 - Optimal control policies for an ATO system with commitment lead time

Taher Ahmadi, Zumbul Atan, Ton de Kok, Ivo Adan

# ■ WD-04

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S104

# **Optimal Control Applications III**

Stream: Optimal Control Applications

Chair: Raúl de Celis

- Optimization techniques for robotic exploration Christian Meerpohl, Kathrin Flaßkamp, Christof Büskens
- 2 Condition-based production and maintenance Michiel uit het Broek, Ruud Teunter, Bram de Jonge
- **3 A pseudospectral framework for optimal train control** Rob Goverde, Gerben Scheepmaker, Pengling Wang
- 4 Airport arrival management: an optimal descent trajectory and runway assignment integrated model Raúl de Celis, Adrián Barea, Luis Cadarso

# ■ WD-05

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S105

# **Heuristics for Vehicle Routing Problems II**

Stream: Vehicle Routing and Logistics Optimization I Chair: Jose Escribano

 Optimizing a 2-echelon distribution system with temporary intermediate facilities

Vincent F. Yu, Hsiu-I Ting, Shih-Wei Lin, Winarno Winarno, Aldy Gunawan

- 2 Large neighborhood search approaches for multi-trip vehicle routing with time windows and driver shifts Véronique François, Yasemin Arda, Yves Crama
- 3 Optimization of employee transportation services Bengisu Tosun, Fulya Fidan, Simgenil Arslan, Gulce Haner Guler, Erdinc Oner
- 4 Cooperative conflict avoidance and path improvement heuristics for humanitarian unmanned aerial vehicles

Jose Escribano, Panagiotis Angeloudis, Washington Ochieng

### ■ WD-06

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S106

# **Scheduling and Project Management**

Stream: Scheduling, Timetabling and Project Management

Chair: Tomas Subrt

1 - Integrated smart history in project management Banu Ozkeser, Cuneyt Karaarslan 2 - A spatio-temporal packing problem in stem cell culture industry

Jongyoon Park, Kyungsik Lee, Jinil Han

3 - IT project management: service operations' supply chain optimization

Alexey Zalozhnev, Denis Peremezhko, Vasily Ginz

 4 - Modification of crucial earned value parameters for modern project management

Tomas Subrt, Jan Bartoska, Petr Kucera

# ■ WD-07

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S107

# **Scheduling with Resource Constraints III**

Stream: Scheduling with Resource Constraints Chair: Krzysztof Fleszar

 Mixed integer programming based merge search for open pit block scheduling

Davaatseren Baatar, Dhananjay Thiruvady, Andreas Ernst, Mohan Krishnamoorthy, Angus Kenny, Angus Kenny, Gaurav Singh

- 2 A MILP model for the unrelated parallel two-machine scheduling problem with a resource constraint Krzysztof Fleszar, Khalil Hindi
- 3 Resource-constrained project scheduling with alternative activity chains and time considerations for production planning with multiple lots

Viktoria Hauder, Andreas Beham, Sebastian Raggl, Sophie Parragh, Michael Affenzeller

# ■ WD-08

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S108

# Advances in Combinatorial Aspects of Optimal Control

Stream: Combinatorial Optimization I Chair: João Lauro Faco'

Design and development of discrete optimization approach for agro product clustering: case study of TR72 region in Turkey

Giray Resat

- 2 Optimal coordinated bidding of a profit maximizing risk-averse EV aggregator under uncertainty Yelena Vardanyan, Henrik Madsen
- 3 Solving linearly-constrained mixed-integer nonlinear (MINLP) global optimization using GRASP metaheuristic

João Lauro Faco', Ricardo Silva, Mauricio Resende

### ■ WD-09

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S109

### Optimization of Machine Learning Models

Stream: European Working Group: Data Science

Meets Optimization Chair: Dimitri Papadimitriou 1 - Fractional Euclidean distance matrices for Kriging surrogate model

Natalija Pozniak, Leonidas Sakalauskas

2 - Recurrent parameter estimation algorithm in hidden Markov models with application to multivariate data analysis and signal recognition

Jūratė Vaičiulytė, Leonidas Sakalauskas

3 - A novel optimization based algorithm for multi-class data classification problem

Fatih Rahim, Metin Turkay

4 - Combined structure and weight learning for neural networks

Dimitri Papadimitriou

# ■ WD-10

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S110

# System Dynamics Modeling and Simulation

Stream: System Dynamics Modeling and Simulation Chair: Evgenia Ushakova

1 - Models of regulatory fit

Ann van Ackere, Erik Larsen

2 - A system dynamics model of emergency department crowding in Singapore: ways to restore the balance between demand for and supply of emergency medicine

Lukas Schoenenberger, John Ansah, Salman Ahmad, Lin Hui Lee, Yuzeng Shen

Structural analysis of conceptual maps and simulation

Mathias Beck, Lukas Schoenenberger

4 - Causal structures of financial markets: a dynamic simulation model

Evgenia Ushakova, Chaiporn Vithessonthi, Markus Schwaninger

# **■** WD-11

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S111

# **Game Theory Models**

Stream: Applications of Dynamical Models

Chair: Eleonora Fendekova

1 - Study on the relationships between the agency charges of the public procurement and its corruption *Huirong Jing, Wenxin Jing* 

2 - A game theory approach to determine the optimal penalty of online copyright infringement

I-Hsuan Hong

3 - Endogenous timing in a quantity duopoly with differentiated products

Eduardo Zuñiga, Leonardo Basso, Pedro Jara

 4 - Utilizing of microeconomic and optimization models in protection and formation of competitive environment in Slovakia

Eleonora Fendekova, Michal Fendek

# ■ WD-12

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S112

# **Hyper-heuristics**

Stream: Hyperheuristics Chair: *Víctor Parada* 

- 1 Evolutionary algorithms and supply chain network design: a comparative analysis on the effectiveness of heuristics, meta-heuristic and hyper-heuristics Sahar Validi
- 2 A hyperheuristic framework to optimise the implementation of dual local search

  Mona Hamid, Jamal Quenniche
- **3 Automatically generated hybrid algorithms** *Víctor Parada, Carlos Contreras-Bolton, Carlos Rey*

### ■ WD-13

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S201

### **Risk Measurement and Management**

Stream: Financial Modeling, Risk Management and

Managerial Accounting Chair: *Michalis Doumpos* 

Psychographic segmentation of Italian bank customers

Caterina Liberati, Galina Andreeva

2 - The impact of collection actions on recovery rates using retail loan level panel data

Angela Freitas de Moraes, Galina Andreeva, Jonathan Crook

3 - Risk management for sovereign debt

Stavros A. Zenios, Andrea Consiglio

 4 - Developing predictive models for US bank failures: an empirical analysis using machine learning approaches

Michalis Doumpos, Georgios Manthoulis, Constantin Zopounidis, Emilios Galariotis, George Baourakis

### ■ WD-14

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S202

# ETHOR IV Ethics and OR last part - Award Ceremony

Stream: OR and Ethics Chair: Pierre Kunsch Chair: Cathal Brugha Chair: Dorien DeTombe Chair: Ulrike Reisach

Chair: Gerhard-Wilhelm Weber

1 - Democracy unveiled by OR

Cindy-Ricarda Roberts

# ■ WD-15

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S203

# Scheduling Theory III

Stream: Scheduling Theory Chair: Paz Perez Gonzalez

- 1 Scheduling with additional resources in the setups Juan Camilo Yepes Borrero, Federico Perea, Fulgencia Villa
- 2 Unrelated parallel machines problem with setups, resources and makespan minimization Luis Fanjul Peyró, Ruben Ruiz, Federico Perea
- 3 A computational evaluation of approaches for flowshop scheduling with variability of the processing times

Jose M Framinan, Paz Perez Gonzalez, Victor Fernandez-Viagas

4 - Scheduling unpaced assembly lines with limited buffers: a mathematical model and some solving methods

Carlos Andres, Julien Maheut

# ■ WD-16

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S115

# Graphs and Networks II

Stream: Graphs and Networks

Chair: Alessandra Cornaro

1 - Online search problems with traveling and search costs on undirected graphs

Davood Shiri, Sibel Salman

2 - On maximum cycle packings in minimum 3connected graphs

Christin Otto

3 - Critical node problem based on connectivity index and properties of components

Binwu Zhang, Xiucui Guan

4 - Assessing robustness in complex networks through the Kirchhoff index

Alessandra Cornaro, Monica Bianchi, Gian Paolo Clemente, Anna Torriero

#### ■ WD-17

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S205

#### **Reliability and Robust Optimization**

Stream: Stochastic and Robust Optimization

Chair: Eric Bourreau

 Robust single machine scheduling with uncertain interval processing times for minimising weighted completion time

Ao Zhou, Amir Salehipour, Feng-Jang Hwang

- 2 A novel replacement policy for a mechanical system with imperfect maintenance and gradual degradation Aynura Poladova, Salih Tekin, Tahir Khaniyev
- 3 Robust Rolling Stock Rescheduling Joris Wagenaar
- 4 Robust optimisation on GPU. A use case with shortest path problem

Eric Bourreau, Michael Poss

#### ■ WD-18

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S206

## Soft Computing in Transportation Problems

Stream: Transportation Chair: Sandra Zajac

1 - Decision making policies for integrated vehicle scheduling and container storage allocation in a straddle carrier system: risk neutral and risk averse analysis

Jiabin Luo, Yue Wu

2 - Optimization of operational offshore wind farm maintenance scheduling under uncertainty

Toby Kingsman, Burak Boyaci

3 - A modified nonlinear Muskingum flood routing model with lateral flow contribution

Ersin Bahar, Gurhan Gurarslan, M. Tamer Ayvaz

 Determining unpredictable routes for reasons of security

Sandra Zajac

#### ■ WD-19

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S207

#### **Supply Chain Design and Operations**

Stream: Supply Chain Management I

Chair: Nesim Erkip Chair: Burcu Keskin 1 - Value of supplier flexibility and initial shelf life information in an EOQ environment

Z. Pelin Bayindir, İsmail Serdar Bakal, Ceren Sar

2 - Data driven robust order batching decisions for warehouse operations management: a branch and price approach

Vedat Bayram, Gohram Baloch, Fatma Gzara, Samir Elhedhli

- 3 A cooperative shipment consolidation game Secil Savasaneril, Banu Yuksel Ozkaya
- 4 Designing an omnichannel distribution system with inventory rationing policies

Burcu Keskin, Jia Guo

#### ■ WD-21

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S303

## Convexity on Riemannian Manifolds, Feasibility and Equilibrium

Stream: Nonlinear Programming: Theory

Chair: Sandor Zoltan Nemeth

 Linear complementarity problems on extended second order cones

Lianghai Xiao, Sandor Zoltan Nemeth

2 - Stable and scalable incremental nonconvex optimization approach for phase retrieval from minimal measurements

Ji Li

- 3 On the spherical convexity of quadratic functions Sandor Zoltan Nemeth, Orizon P Ferreira
- 4 Digraphs for modeling systems' representation of mathematical knowledge

Patricia Balderas

#### ■ WD-22

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S304

## Methods and Theory of Multiobjective Optimization

Stream: Multiobjective Optimization

Chair: Theodor Stewart

1 - When to burn it? Bi-objective scheduling on a restricted batching machine

Edgar Possani, Marta Cabo Nodar, Jose Luis Gonzalez-Velarde, Yasmin Rios-solis

 2 - Formation of homogenous sections of students based on multiple characteristics

Shubhabrata Das

3 - Numerical experimentation with multiobjective optimization using multiple reference points

Theodor Stewart

#### ■ WD-23

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S305

#### Lot Sizing V - Extensions

Stream: Lot Sizing, Lot Scheduling and Production

Planning

Chair: Nadjib Brahimi

1 - Dynamic lot-sizing in a reverse logistics environment Aaron Luntala Nsakanda, Moustapha Diaby

2 - A lot-sizing problem in deliberated and controlled coproduction systems

Z. Caner Taşkın, Bahadir Pamuk, Semra Agrali

- 3 Valid inequalities for the proportional lot-sizing and scheduling problem with fictitious micro-periods Waldemar Kaczmarczyk
- 4 Solving a lot sizing problem with lead time sensitive demands

Nadjib Brahimi, Adam Ferreira, Ramzi Hammami

#### ■ WD-24

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S306

# Miscellaneous Topics related to Global Optimization

Stream: Global Optimization

Chair: Marco Castellani

 Adaptive space-filling designs for large-scale metamodel-assisted expensive black-box optimization

Rommel Regis

2 - Support to decision making in a semi-continuous canning process

Carlos Gómez Palacín, José Luis Pitarch Pérez, Mendez Carlos, Cesar de Prada, Miguel Antonio López

3 - Obtaining deep local minima of smooth functions by using local optimization with global multidimensional search

Juan José Mesas, Albert Ferrer, Luis Sainz

4 - Ekeland's principle for equilibrium problems Marco Castellani

#### ■ WD-25

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S307

# Scheduling Applications in Urban and Rail Logistics

Stream: Combinatorial Optimization II

Chair: Dominik Kress Chair: Erwin Pesch  1 - Assignment of collection centers and routing of recycling vehicles in a city

Lorena Pradenas, Sergio Aliaga

2 - Single track railway scheduling problem Grzegorz Pawlak, Jacek Blazewicz, Gaurav Singh

3 - A dynamic programming approach for scheduling cooperative gantry cranes

Dominik Kress, Jan Dornseifer, Florian Jaehn

#### ■ WD-26

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S308

#### Freight Transportation

Stream: Public Transportation I

Chair: Pengling Wang

 Integrating terminal processes in the demand-flow problem for European railway networks

Tobias Pollehn, Moritz Ruf

- 2 Reliability analysis of a rail truck intermodal network Kiran Ali
- 3 Branch and price approach for a vehicle routing problem in public service

Cansu Yurtseven, Merve Avcı, Deniz Türsel Eliiyi

4 - Running time prediction for optimal freight train merging

Pengling Wang, Rob Goverde

#### ■ WD-27

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S309

#### **Quality Management**

Stream: Production, Service and Supply Chain Man-

agement

Chair: Ashkan Keykavoussi Chair: Ahmad Ebrahimi

Optimal supplier quality development under uncertainty

Guven Demirel, John Quigley, Lesley Walls, Bart MacCarthy, Mahdi Parsa

2 - Queueing system with vacations, disasters and repairs under diferrent control policies

George Mytalas

3 - Warranty parameters for extended two-dimensional warranties incorporating consumer preferences

Amitava Mitra

4 - The implementation of lean manufacturing utilizing fuzzy value stream mapping (case study: SAIPA automobile manufacturing group)

Ahmad Ebrahimi, Ashkan Keykavoussi

#### **■** WD-28

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S310

#### **Machine learning**

Stream: Machine Learning

Chair: Michal Walczak

1 - Oprimized neural networks applications for aircraft engine modeling

Ruxandra Botez

2 - Convolutional deep neural network model to classify citizen complaints in Bogotai'

Xavier Gonzalez

Improved operational excellence through big data analytics

Andreas Felsberger, Boualem Rabta, Gerald Reiner

 4 - Chemical process design aided by grey-box modelling

Michal Walczak, Raoul Heese, Tobias Seidel, Michael Bortz

#### ■ WD-29

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S311

#### **Cutting and Packing IV**

Stream: Cutting and Packing Chair: J. M. Valerio de Carvalho

- 1 Modeling and solving the open-end bin packing problem with incompatibility constraints
  - Mohamed Maiza
- 2 One-dimensional cutting stock instances for which few patterns are needed

Arnaud Vandaele

3 - When bin packing meets scheduling: a case of just-in-time batch scheduling with bin packing constraints

Sergey Polyakovskiy, Rym M'Hallah

4 - A strong integer linear optimization model to the compartmentalized knapsack problem

J. M. Valerio de Carvalho, John Quiroga-Orozco, Robinson Hoto

#### ■ WD-30

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S312

## Vehicle Routing: Recent Theory and Applications

Stream: Transportation and Logistics

Chair: Riccardo Rossi

- Electric vehicle routing problem with time windows and ambient temperature effect
  - Bülent Çatay, Sina Rastani, Tugce Yuksel
- 2 Branch-and-price for probabilistic vehicle routing Mathias Klapp, Felipe Lagoo, Alejandro Toriello
- 3 An integrated fleet management model introducing alternative fuel trucks into existing diesel fleets Ilke Bakir, Alan Erera
- 4 Crash prediction at road intersections based on extreme value theory

Riccardo Rossi, Massimiliano Gastaldi, Federico Orsini

#### ■ WD-31

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S313

#### Strategy and Soft OR

Stream: Soft OR, Problem Structuring Methods and

Behavioural OR Chair: Colin Eden

 Cognitive mapping with preference analysis in selecting cases for multinational and multi-discipline research projects

Jukka Tikkanen

2 - A conceptual framework for incorporating Maturana's onto-epistemology into Checkland's soft systems methodology

Alberto Paucar-Caceres, Bruno Jerardino-Wiesenborn

3 - Causal mapping workshops and strategic development

Parmjit Kaur, Ashley Carreras

Developing robust strategy: modelling stakeholder interactions - a case example

Colin Eden

#### ■ WD-32

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S314

#### **Dynamic Models in Game Theory II**

Stream: Dynamic Models in Game Theory

Chair: Jiajia He

1 - A game-theoretic approach to solving the dynamic traveling salesman problem

Svetlana Tarashnina, Yaroslavna Pankratova

2 - Population dynamics in electricity markets: going against the flow

Athanasios Papakonstantinou, Jethro Browell, Pierre Pinson

#### ■ WD-33

Wednesday, 14:30-16:00 - SOUTH BUILDING UV S315

#### New Applications and Perspectives III

Stream: Data Mining and Statistics

Chair: Emilio Carrizosa

 Applying cluster analysis and collaborative filtering to develop hybrid recommendation for personalized picture book

Ling-Jing Kao, Chih-Chou Chiu, April Ying-Chieh Chiu

- 2 Homogenous or heterogeneous? Demand effect of user similarity network in online video website Jun Yang, Hongjun Huang, Ling Zhao
- 3 Personalized detection integrating epidemic modeling and user behavior to improve malware detection Amir Yavneh, Roy Lothan, Dan Yamin
- 4 Characterization for the determination of production times using fuzzy clustering and relative risks

  Maria Pastuizaca, Francisco Moreira

#### **■** WD-48

Wednesday, 14:30-16:00 - 4D UPV B.3

#### **OR in Hydro Energy Management**

Stream: OR in Water and Hydro Energy Management Chair: Jorge Daniel Páez Mendieta

 Heuristic for dispatching of seasonal hydro storage power plants

. Florian Zimmermann

 Decomposition techniques in hydro storage valuation and scheduling

Vadim Omelčenko

3 - Comparison of algorithms for valuation of hydroelectric pumped storages

Maik Günther, Christoph Rapp

4 - Optimal design of a hybrid power system in Fernando de Noronha Island

Jorge Daniel Páez Mendieta, Caroline Paulino, Paulo Correia, Ieda Geriberto Hidalgo

#### ■ WD-49

Wednesday, 14:30-16:00 - 4D UPV B.4

## **Emerging Applications in Portfolio Selection and Management Science**

Stream: Emerging Applications in Portfolio Selection and Management Science

Chair: Enrique Alba

1 - A Fama and French four factor model

Juan E. Trinidad-Segovia, Maria de las Nieves López-García, Miguel A. Sanchez-granero, Igor Pouchkarev

2 - Using heuristics to maximize costumer attractiveness in retail stores

Sara Hatami, Mage Marmol, Leandro Martins, Angel A. Juan, Vicente Fernández

**3 - New challenges for OR in smart cities** *Enrique Alba* 

4 - Managing knowledge in public R&D: cases of regional specialization strategies adopted by national laboratories in India

Santanu Roy

#### ■ WD-51

Wednesday, 14:30-16:00 - 4D UPV 1.2

#### Planning and Scheduling for Health Care

Stream: OR for Health and Care II

Chair: Rosita Guido

1 - Stochastic kidney exchange problem Bart Smeulders, Yves Crama, Frits Spieksma

- 2 Heuristic solutions for kidney exchange program Utkarsh Verma, Narayan Rangaraj
- 3 Analyzing economies of scale and scope in hospitals by use of case mix planning Jens Brunner, Sebastian McRae
- Patient admission, surgery planning and bed assignments problems: a solution approach

Rosita Guido, Vittorio Solina, Giovanni Mirabelli, Domenico Conforti

#### ■ WD-52

Wednesday, 14:30-16:00 - 4D UPV 1.3

#### **Pricing and Revenue Management III**

Stream: Analytics and Pricing

Chair: Andre Schnabel

- Pricing and coordination decision in closed-loop supply chain considering joint advertising Juhong Gao
- 2 Optimal order quantity and dynamic pricing for multiple, vertically-differentiated products

  Prasenjit Mandal
- 3 Dynamic pricing of new products in competitive markets: a mean-field game approach

  \*\*Régis Changing Coning Paragolite Coloriel Trainigie

  \*\*Production of the Paragolite Coloriel Trainigies\*\*

Régis Chenavaz, Corina Paraschiv, Gabriel Turinici

4 - Simulation-based service portfolio optimization Andre Schnabel, Carolin Kellenbrink

#### ■ WD-53

Wednesday, 14:30-16:00 - 4D UPV 1.4

#### **Electricity Supply**

Stream: Stochastic Assessment of Renewable Energy Chair: John Boland

1 - Analysis and clustering of residential electricity consumers using smart meter data

Olga Varganova, Behzad Samii

2 - A shared balancing responsibility model for the integration of ancillary services from demand side management and distributed generation

Cristina Núñez-del-Toro, Cristina Corchero, Pol Paradell, Gerard del Rosario

3 - Real-time energy dispatching in smart microgrids

Selçuk Gören, Ahmet Önen, Yeliz Yoldaş, Salem Al-Agtash, Brian Azzopardi, Nis Martensen, Jose L. Martinez-Ramos, Tsolakis Apostolos, Dimitrios Tzovaras, Lenos Hadjidemetriou, Mounir Khiat, Tim Camilleri, Nicholas Borg

4 - Long-term wind power forecasting using singular spectrum analysis

Soraida Aguilar, Paula Maçaira, Reinaldo Souza, Fernando Luiz Cyrino Oliveira

#### **■** WD-54

Wednesday, 14:30-16:00 - 4D UPV 1.6

#### **Personnel Scheduling Applications**

Stream: Applied OR Chair: Geir Hasle

Airline cabin crew rostering based on a column generation algorithm

Nan Xu, Mingyu Zhao, Fan Yang, Zhiyao Zhang

2 - Modelling real-world strict seniority bidding problems in airline crew rostering

Andriy Svynaryov, Magnus Björk, Paweł Pietrzak

- 3 Analysis of firefighter absences and hiring schedule optimization at a Canadian fire department Tamon Stephen
- 4 Making schedule recommendations for managing personal processes by using a constraint programming model

Sercan Oruc, P. Erhan Eren, Altan Koçyiğit, Sencer Yeralan

#### ■ WD-55

Wednesday, 14:30-16:00 - 4D UPV 2.1

#### **Ethical Dilemmas in Everyday Practice**

Stream: Making an Impact I

Chair: Ruth Kaufman

1 - Ethical dilemmas in everyday practice

Ruth Kaufman

#### **■ WD-56**

Wednesday, 14:30-16:00 - 4D UPV 2.2

#### Scheduling Problems in Hospitals

Stream: Healthcare Logistics

Chair: Inês Marques

- 1 Multi-appointment scheduling in a diagnostic facility Joren Marynissen, Erik Demeulemeester
- 2 The introduction of pediatric operating room sessions: quality vs efficiency

Carla Van Riet, Erik Demeulemeester

Reallocate operating room time among surgical services

Luisa Lubomirska, Inês Marques

**4 - Blood supply chain planning: the Portuguese case** *Ana Margarida Araújo, Inês Marques, Ana Barbosa-Povoa* 

## Wednesday, 17:30-18:30

#### **■ WE-01**

Wednesday, 17:30-18:30 - Opera House

#### Theory can sometimes be useful

Stream: Plenaries Chair: *Greet Vanden Berghe* 

#### 1 - Theory can sometimes be useful

Gerhard Woeginger

## Wednesday, 18:45-20:00

#### ■ WF-01

Wednesday, 18:45-20:00 - Opera House

#### **Closing Session**

Stream: Opening and Closing Chair: *Ramon Alvarez-Valdes* 

Chair: Ruben Ruiz

#### 1 - Closing session

Ramon Alvarez-Valdes, Ruben Ruiz

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Chiu, Chih-Chou WD-33	WC-33	Cyrino Oliveira, Fernando Luiz
Cho, Haneol MD-34	Contreras, Ivan MC-16	WA-53, WD-53, MB-56
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Choudhari, Sanjay MD-59	Copado Méndez, Pedro Jesús	D'Ambrosio, Claudia WC-08
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Christiansen, Marielle TB-05	Cordeau, Jean-François . MD-06,	Dabadghao, Shaunak MC-06,
Christophel, Philipp TB-57	MB-08, MC-08, MC-16, TD-23	WC-27
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Chubanov, Sergei MB-08	Corman, Francesco TB-26	<b>Dahle, Lars</b> TB-05
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Gribkovskaia, Irina TC-12	Gutiérrez, César . MA-19, MB-19	<b>Haughton, Timothy</b> MD-27
<b>Grigas, Paul</b> TA-09	Gutierrez Gutierrez, Elena	Haugom, Erik TA-59
Grigoreva, Olesya MB-56	Valentina TB-25	Haupt, Marlene TC-13
Grimault, Axel TC-06	Gutierrez, Elisabeth MC-29	Havinga, Nicole TD-55
Grimm, Veronika WA-30, WC-34	Gutierrez, Jerôme TB-50	Hayakawa, Norihiro WC-02
Groselj, Petra TD-49	Gutierrez, Sandra . TB-15, TB-52	Hämäläinen, Raimo P TD-31
Grobbelaar, Sara S MC-25	Gutjahr, Georg MB-50	<b>He, Fang</b> MB-23
Groenendijk, Gerben TD-55	Gutjahr, Martin MA-02	<b>He, Yun</b> TC-06
Groenman, Annabeth MD-57	Gutjahr, Walter MA-08, TC-51	Hearne, John WA-49
Groetzner, Patrick MC-14	Gutschi, Clemens WB-03, MC-27	<b>Hedija, Veronika</b> MD-11
Gromicho, Joaquim TB-55,	<b>Guu, Sy-Ming</b> MB-12	<b>Heese, Raoul</b> WD-28
TC-55, WA-55	Gwiggner, Claus MC-26	Heggen, Hilde TB-32
Gronalt, Manfred WA-49	Gzara, Fatma WD-19	<b>Hein, Fanny</b> WC-23
Gruzauskas, Valentas TB-34	<b>Ha, Albert</b> MB-27	<b>Hein, Nelson</b> MD-10
Grübel, Julia WA-30	Haag, Fridolin TD-31	Heinz, Stefan WB-57
Guaita-Pradas, Inmacualada	Haberman, Steven MB-34	Heipcke, Susanne WA-57
TC-24	Hacardiaux, Thomas TA-03	Heitz, Christoph WC-26
Guajardo, Mario TD-54, TA-60	Hadziahmetović, Maja MC-13	Hellingrath, Bernd MD-02
Gualotuña, José A WB-10	Hadad, Yossi WA-32, TC-58	Hellsten, Erik TD-25
Guan, Xiucui WD-16	Hadas, Yuval MA-33	Hemmati, Ahmad TD-05
Guastaroba, Gianfranco MC-08	Haddon, Antoine WB-21	Hemsley-Brown, Jane WC-26
Gubar, Elena MB-58	Hadjidemetriou, Lenos WD-53	Hanga Paraz Alvin W/R 7/1
		Henao Perez, Alvin WB-24
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Lopes, Manuel WA-08	Maggioni, Francesca TD-17,	<b>Maroto, Concepcion</b> TA-49,
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Lubomirska, Luisa WD-56	Mallor, Fermin WB-56	WC-28
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Lucidi, Stefano TC-08	Mancini, Simona . MC-15, MB-30	Martin, Sebastian WA-30
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		Pastor, Jesus T MA-11
Oufaska, Kenza MB-26	Pang, King-Wah Anthony. TA-25	
Ouorou, Adam TB-08	Panggabean, Ellis Mardiana	Pastore, Tommaso TB-08
Oussedik, Sofiane . TA-55, MD-57	MC-50	Pastuizaca, Maria WD-33
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Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Ozkan, Omer       MB-30	Parada, Víctor	<b>Pedemonte, Martin</b> MD-49
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Ozkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48	Parada, VíctorWD-12Paradell, PolWD-53Paradiso, RosarioMD-05Paraschiv, CorinaWD-52	<b>Pedemonte, Martin</b> MD-49 <b>Pederzoli, Chiara</b> TC-04
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Ozkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Ozkeser, Banu       WD-06	Parada, Víctor	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso MD-48
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Ozkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Ozkeser, Banu       WD-06         Özmen, Aslı       WA-20	Parada, Víctor WD-12 Paradell, Pol WD-53 Paradiso, Rosario MD-05 Paraschiv, Corina WD-52 Paraskevopoulos, Dimitris WB-28 Pardo, Eduardo G WB-28	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Ozkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Ozkeser, Banu       WD-06	Parada, Víctor	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Ozkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Ozkeser, Banu       WD-06         Özmen, Aslı       WA-20         Özmen, Ayse       MD-24	Parada, Víctor WD-12 Paradell, Pol WD-53 Paradiso, Rosario MD-05 Paraschiv, Corina WD-52 Paraskevopoulos, Dimitris WB-28 Pardo, Eduardo G WB-28	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Ozkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Ozkeser, Banu       WD-06         Özmen, Aslı       WA-20         Özmen, Ayse       MD-24         Özmutlu, H. Cenk       TD-05	Parada, Víctor	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Ozkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Ozkeser, Banu       WD-06         Özmen, Aslı       WA-20         Özmen, Ayse       MD-24         Özmutlu, H. Cenk       TD-05         Ozogur-Akyuz, Sureyya       MA-28,	Parada, Víctor	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Ozkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Ozkeser, Banu       WD-06         Özmen, Aslı       WA-20         Özmen, Ayse       MD-24         Özmutlu, H. Cenk       TD-05         Ozogur-Akyuz, Sureyya       MA-28,         MB-28	Parada, Víctor	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Özkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Özkeser, Banu       WD-06         Özmen, Aslı       WA-20         Özmen, Ayse       MD-24         Özmutlu, H. Cenk       TD-05         Özogur-Akyuz, Sureyya       MA-28, MB-28         Özpeynirci, Özgur WA-15, TB-25,	Parada, Víctor	Pedemonte, Martin
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Özkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Özkeser, Banu       WD-06         Özmen, Aslı       WA-20         Özmen, Ayse       MD-24         Özmutlu, H. Cenk       TD-05         Özogur-Akyuz, Sureyya       MA-28, MB-28         Özpeynirci, Özgur WA-15, TB-25, TA-50	Parada, Víctor	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso MD-48 Pedregal Tercero, Diego José MB-22, MC-28 Peeters, Bruno TC-11 Peiró, Juanjo MD-25, WC-28 Peker, Kenan MC-59 Peker, Meltem TB-50 Pekgun, Pelin TA-53 Pelegrin, Blas MB-30
Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Özkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Özkeser, Banu       WD-06         Özmen, Aslı       WA-20         Özmen, Ayse       MD-24         Özmutlu, H. Cenk       TD-05         Özogur-Akyuz, Sureyya       MA-28, MB-28         Özpeynirci, Özgur WA-15, TB-25, TA-50       TA-50         Özpeynirci, Selin       MD-21	Parada, Víctor	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso MD-48 Pedregal Tercero, Diego José MB-22, MC-28 Peeters, Bruno TC-11 Peiró, Juanjo MD-25, WC-28 Peker, Kenan MC-59 Peker, Meltem TB-50 Pekgun, Pelin TA-53 Pelegrin, Blas MB-30 Pelissari, Renata TB-12
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Özkan, Aysun       MC-56         Özkan, Kemal       MC-33, MC-56         Özkan, Omer       MB-30         Özkan, Sinem       WC-19, MB-48         Özkeser, Banu       WD-06         Özmen, Aslı       WA-20         Özmen, Ayse       MD-24         Özmutlu, H. Cenk       TD-05         Özogur-Akyuz, Sureyya       MA-28, MB-28         Özpeynirci, Özgur WA-15, TB-25, TA-50       TA-50         Özpeynirci, Selin       MD-21	Parada, Víctor	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso MD-48 Pedregal Tercero, Diego José MB-22, MC-28 Peeters, Bruno TC-11 Peiró, Juanjo MD-25, WC-28 Peker, Kenan MC-59 Peker, Meltem TB-50 Pekgun, Pelin TA-53 Pelegrin, Blas MB-30 Pelissari, Renata TB-12 Pellegrini, Nicola MC-02
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Özkan, Aysun	Parada, Víctor	Pedemonte, Martin MD-49 Pederzoli, Chiara TC-04 Pedraza-Martinez, Alfonso MD-48 Pedregal Tercero, Diego José MB-22, MC-28 Peeters, Bruno TC-11 Peiró, Juanjo MD-25, WC-28 Peker, Kenan MC-59 Peker, Meltem TB-50 Pekgun, Pelin TA-53 Pelegrin, Blas MB-30 Pelissari, Renata TB-12 Pellegrini, Nicola MC-02 Pellegrini, Paola TD-26 Pellicer, Eugenio MB-51 Pelz, Peter MC-48 Peng, Qiyuan WB-26 Penna, Puca Huachi TB-48 Penz, Bernard MD-60 Perboli, Guido TB-17 Perea, Federico TA-05, WD-15
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