Wednesday, 8:30-10:00

■ WA-01
Wednesday, 8:30-10:00 - AUDIMAX

Opening and EURO Plenary (Fischetti)
Stream: Plenaries
Chair: Gerhard Wäscher

1 - Thin models for big data
Matteo Fischetti

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Wednesday, 10:30-12:30

■ WB-02
Wednesday, 10:30-12:30 - HS 7

Project Management and Scheduling I (i)
Stream: Scheduling and Project Management
Chair: Richard Hartl

1 - Resource-constrained project scheduling with overtime
Andre Schnabel, Carolin Kellenbrink

2 - Efficient CP-SAT approaches for the solution of the MRCPSP with GPRs
Alexander Schnell, Richard Hartl

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■ WB-03
Wednesday, 10:30-12:30 - HS 16

Scheduling Applications (i)
Stream: Scheduling and Project Management
Chair: Jens Brunner

1 - Integrated task planning and shift scheduling of logistics assistants in hospitals
Jonas Volland, Andreas Fügener, Jens Brunner

2 - Heuristics for the part inventory model sequencing problem
Martin Wirth, Florian Jaehn, Michael Schneider

3 - Partially-Concurrent Open Shop Scheduling with Preemptions
Hagai Ilani, Elad Shufan, Tal Grinshpoun, Dvir Shabtay

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■ WB-04
Wednesday, 10:30-12:30 - HS 21

Robust flows and network design (i)
Stream: Discrete Optimization
Chair: Britta Peis

1 - Additive Stabilizers for Unstable Graphs
Corinna Gottschalk, Karthekeyan Chandrasekaran, Britta Peis, Daniel Schmand, Andreas Wierz

2 - Robust flows in path-based interdiction models
Jannik Matuschke, Thomas S. McCormick, Gianpaolo Oriolo, Britta Peis, Martin Skutella

3 - k-Delete Recoverable Robust Combinatorial Optimization
Christina Büsing

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■ WB-05
Wednesday, 10:30-12:30 - HS 23

Hierarchical Planning
Stream: Production and Operations Management
Chair: Leena Suhl
1 - Towards An Integrated Approach to Service Process Design
   Fabian Strohm

2 - Combining different lot sizing and scheduling models for production control
   Florian Isenberg, Leena Suhl

3 - Order acceptance in production planning with demand uncertainty
   Tarik Aouam, Kobe Geryl

■ WB-06

Wednesday, 10:30-12:30 - HS 24

Data Envelopment Analysis I

Stream: Production and Operations Management
Chair: Josef Jablonsky

1 - Successful Strategic Outcome Improvement Of Sugarcane Industry Performance Management Through DEA: The Case Khuzestan Province Of Iran
   Mohamad Reza Rasol Roveicy

2 - Treating scale-efficiency gaps in peer-based DEA
   Andreas Dellnitz

3 - Efficiency of Investment banks during the financial crisis: a conditional frontier analysis
   Anamaria Aldea, Luiza Badin, Carmen Lipara

4 - Efficiency measurement in multi-period production systems
   Josef Jablonsky

■ WB-07

Wednesday, 10:30-12:30 - HS 26

Dynamic, stochastic and fuzzy Routing (c)

Stream: Logistics and Transportation
Chair: Stefan Minner

1 - Strategy learning of route choice under different information reliabilities
   Tai-yu Ma, Roberta di Pace, Gennaro Nicola Bifulco

2 - Dynamic Routing in Time-dependent Traffic Networks
   Shao Chieh Lin, Chung-Shou Liao

3 - A Constrained Fuzzy Arithmetic Based Approach to Transshipment Problem with Fuzzy Decision Variables
   Kemal Subulan, Adil Baykasoglu

4 - Vehicle Routing with Stochastic and Dependent Demands: a Bayesian Approach
   Alexandre Florio, Richard Hartl, Stefan Minner

■ WB-08

Wednesday, 10:30-12:30 - HS 27

Forecasting with Neural Networks & Computational Intelligence

Stream: Forecasting
Chair: Michael H. Breitner

1 - Residual Values of Utility Vehicles: An Application of Neural Networks
   Hans-Jörg von Mettenheim, Christoph Gleue, Dennis Eilers, Michael H. Breitner

2 - Forecasting Wheat Production by Artificial Neural Networks and Linear Regression Models
   Mehmet Aktan

3 - Forecasting energy consumption using ensemble ARIMA-ANFIS hybrid algorithm
   Sasan Barak

4 - Integration of Demand Forecasting in the Design of Option Bundles
   Radu Constantin Popa, Martin Grunow

■ WB-09

Wednesday, 10:30-12:30 - HS 30

Games and Production Management (c)

Stream: Game Theory
Chair: Xuan Vinh Doan

1 - Game theory and Purchasing Management: an empirical study of extensive-form games in harbour cranes sector
   Sandra Martínez, Carolina Bernardos, Miguel Mediavilla

2 - Newsvendor Games with Ambiguity in Demand Distributions
   Xuan Vinh Doan, Tri-Dung Nguyen

■ WB-10

Wednesday, 10:30-12:30 - HS 31

Multi-objective optimization in transport and logistics I

Stream: Logistics and Transportation
Chair: Sophie Parragh

1 - A multi-objective Location Routing Problem with pickups, deliveries and transshipments including aspects of prospective German truck driver shortage
   Sebastian Jäger, Rainer Leisten

2 - Multi-objective optimization of a pharmaceutical distribution case in consideration of fairness and consistency
   Andreas Krawinkler, Fabien Tricoire, Karl Doerner
3 - Evaluating the trade-off between cost and service-oriented objectives in routing and scheduling problems
Sophie Parragh, Kris Braekers, Attila Kovacs, Fabien Tricoire, Richard Hartl

■ WB-11
Wednesday, 10:30-12:30 - HS 32
Recent Advances in Public Transportation
Stream: Logistics and Transportation
Chair: Jan Fabian Ehmke
Chair: Natalia Kliewer

1 - The Vehicle Scheduling Problem with Electric Vehicles — Solution Methods and Extensions
Nils Olsen, Natalia Kliewer, Josephine Reuer, Lena Wolbeck

2 - Robust Efficiency in Public Bus Transport and Airline Resource Scheduling
Bastian Amberg, Lucian Ionescu, Natalia Kliewer

3 - Integrated timetabling and vehicle scheduling with balanced departure times
Jan Fabian Ehmke, Verena Schmid

4 - OD matrix estimation using smart card transactions data and its usage for the tariff zones partitioning problem
Michal Kohani

■ WB-12
Wednesday, 10:30-12:30 - HS 33
Maritime Logistics I
Stream: Logistics and Transportation
Chair: Hans-Dietrich Haasis

1 - Horizontal Cooperation in Maritime Supply Chains
Dirk Sackmann, Alexandra Rittmann

2 - Systems Dynamics Approach for Analyzing Benefits for Port Coopetition
Hans-Dietrich Haasis

■ WB-13
Wednesday, 10:30-12:30 - HS 41
Sustainable Design and Operations of Supply Chains (I)
Stream: Supply Chain Management
Chair: Gerd J. Hahn
Chair: Marcus Brandenburg

1 - Life-Cycle Planning in Closed-Loop Supply Chains: A Study of Refurbished Laptops
Thomas Nowak, Gernot Lechner

2 - Planning of Sustainable Operations in Chemical Process Industries
Gerd J. Hahn, Marcus Brandenburg

3 - Simulation and optimization to configure eco-efficient supply chains under consideration of performance and risk aspects
Marcus Brandenburg

■ WB-14
Wednesday, 10:30-12:30 - HS 42
Integer Programming for Graph Optimization Problems
Stream: Graphs and Networks
Chair: Fabio Furini
Chair: Enrico Malaguti

1 - Formulation and solution of Coloring problems as Maximum Weighted Stable Set problems
Enrico Malaguti, Denis Cornaz, Fabio Furini

2 - Equilibrated Vertex k-Separator Problem
Enrico Malaguti, Fabio Furini, Denis Cornaz, Mathieu Lacroix, A. Ridha Mahjoub, Sébastien Martin

3 - Lower Bounding Techniques for DSATUR-based Branch and Bound
Ian-Christopher Ternier, Fabio Furini, Virginie Gabrel

■ WB-15
Wednesday, 10:30-12:30 - HS 45
Simulation in the Automotive Sector
Stream: Simulation and Decision Support
Chair: Kai Gutenschwager

1 - Is today’s paint shop structure still up-to-date? - The virtual model of a modular manufacturing structure
Dirk Wortmann

2 - Dimension of a central de-coupling module and evaluation of the impact of different scheduling strategies by simulation studies
Marcike Mueller

3 - Simulation-based modelling and analysis of schedule instability in automotive supply chains
Tim Gruchmann, Thomas Gollmann

4 - Supply chain simulation in the cloud: Shared model building and result analysis with respect to requirements for concealing individual input data
Kai Gutenschwager, Till Fechteler

■ WB-16
Wednesday, 10:30-12:30 - HS 46
Hierarchical and Complementarity Models in Energy Systems
Stream: Energy and Environment
Chair: S. Jalal Kazempour
1 - Generator Maintenance Scheduling in Competitive Environment
Hrvoje Pandzic

2 - Bilevel model for retail electricity pricing
Georgia Asimakopoulou, Andreas Vlachos, Nikos Hatzigiaryi

3 - Stochastic Market Clearing: An Adequate Pricing Scheme Per Scenario
S. Jalal Kazempour, Pierre Pinson

WB-17
Wednesday, 10:30-12:30 - HS 47

Dissertation Prizes
Stream: Prize awards
Chair: Anita Schöbel

1 - From structures to heuristics to global solvers
Timo Berthold

2 - Models and Methods for Optimizing Baggage Handling at Airports
Markus Frey

3 - Robust Quantitative Comparative Statics for a Multi-market Paradox
Philipp von Falkenhausen

4 - Robust Design of Single-Commodity Networks
Daniel Schmidt

WB-18
Wednesday, 10:30-12:30 - HS 48

Control Energy Markets
Stream: Energy and Environment
Chair: Gerold Petritsch
Chair: Elke Moser

1 - Inter hour power output changes and technical ranges of power plants for ancillary markets
Ingo Spiegelberg

2 - Short term optimization of control energy decisions for combined power and district heating portfolios
Jan Hofmann

3 - Optimization of Hydro Storage Plants Combined With Control Energy Optimization
Elke Moser

4 - Exact solutions to binary equilibrium problems with compensation and the power market uplift problem
Daniel Huppmann, Sauleh Siddiqui

WB-19
Wednesday, 10:30-12:30 - HS 50

Optimization in Energy
Stream: Energy and Environment
Chair: Maria Teresa Vespucci

1 - Portfolio Management and Stochastic Optimization in Discrete Time: An Application to Intraday Electricity Trading and Water Values for Hydroassets
Luisa Tibiletti, Simone Farinelli

2 - Optimal operation of power distribution networks
Paolo Piscielli, Maria Teresa Vespucci, Diana Moneta, Giacomo Viganò

3 - An application of PCA based approach to large area wind and solar power forecast
Federica Davò

4 - Transmission switching in electricity networks via nonlinear stochastic programming
Maria Teresa Vespucci, Francesco Piu, Alois Pichler, Asgeir Tomasgard

WB-20
Wednesday, 10:30-12:30 - UB Germanistik 1

Stochastic programming - big data and applications (i)
Stream: Stochastic Optimization
Chair: Milos Kopa

1 - Applications of stochastic programming - a challenging source of big data
Vaclav Kozmik, Jitka Dupacova

2 - Non-life insurance rate-making based on data-mining techniques and stochastic programming
Martin Branda

3 - Optimal Investment Policy in Pension Fund
Sebastiano Vitali, Milos Kopa, Vittorio Moriggia

4 - Optimal time to reposition inventories in multi-location centralized networks
Olga Rusyaeva, Joern Meissner

WB-21
Wednesday, 10:30-12:30 - UB Germanistik 2

Robust Optimization (i)
Stream: Stochastic Optimization
Chair: Wolfram Wiesemann

1 - A dynamic programming approach for a class of robust optimization problems
Michael Poss, Agostinho Agra, Marcio Costa Santps, Dritan Nace

2 - A Multi-Scale Decision Rule Approach for Multi-Market Multi-Reservoir Management
Napat Rujeerapaiboon, Daniel Kuhn, Wolfram Wiesemann
3 - A Bicriteria Approach to Robust Optimization
André Chassein, Marc Goerigk

4 - K-Adaptability in Two-Stage Robust Binary Programming
Wolfram Wiesemann, Grani Hanasusanto, Daniel Kuhn

**WB-22**
Wednesday, 10:30-12:30 - ÜR Germanistik 3

**Market Design & Optimization I (i)**
Stream: Accounting and Revenue Management
Chair: Martin Bichler

1 - Pricing Combinatorial Auctions by a Set of Linear Price Vectors
Dirk Briskorn, Jenny Nossack, Kurt Jörnsten

2 - Vickrey-based Pricing in Iterative First-Price Auctions
Oleg Baranov, LawrenceAusubel

3 - Allocation and payment rules in combinatorial double auction markets
Vladimir Fux, Martin Bichler

**WB-23**
Wednesday, 10:30-12:30 - ÜR Germanistik 4

**Discrete Methods for Gas Network Optimization Problems**
Stream: Integer Programming
Chair: Lars Schewe

1 - Infeasibility in Flow and Stationary Gas Networks
Imke Joormann, Marc Pfetsch

2 - Computational studies on solving Mixed-Integer Nonlinear Programs by Mixed-Integer Linear Program relaxations
Robert Burlacu, Björn Geissler, Antonio Morsi, Lars Schewe

3 - Decomposition methods for mixed-integer programs combined with differential equations
Mathias Sirvent, Alexander Martin

4 - A network flow theory based model for natural gas networks
Martin Groß, Marc Pfetsch, Martin Skutella

**WB-24**
Wednesday, 10:30-12:30 - ÜR Germanistik 5

**Inference and Problem Solving**
Stream: Analytics
Chair: Claus Gwiggner

1 - Why It Needs More Than Statistics For Successful Data Based Decision Making
Katharina Schüller

2 - Partial Modeling Mismatch: Origin, Consequences, and Solutions for Customer Targeting
Stefan Lessmann, Kristof Coussement, Koen W. De Bock

3 - The Influence of Weather in Online Retailing - An Empirical Analysis
Kai Hoberg, Sebastian Steinke

4 - Clustering Distributional Data: Case-Studies
Claus Gwiggner

**WB-26**
Wednesday, 10:30-12:30 - SR Geschichte 1

**Randomized Optimization Methods for Machine Learning**
Stream: Continuous Optimization
Chair: Peter Richtarik

1 - Addaptive sum randomization technique in network-applications
Ilnura Usmanova, Ekaterina Krymova, Alexander Gasnikov

2 - Stochastic Dual Coordinate Ascent with Adaptive Probabilities
Dominik Csiba, Zheng Qu, Peter Richtarik

3 - Stochastic Dual Newton Ascent for Empirical Risk Minimization
Peter Richtarik, Zheng Qu, Martin Takac, Olivier Fercoq

**WB-27**
Wednesday, 10:30-12:30 - SR Geschichte 2

**Portfolio Optimization I (c)**
Stream: Financial Modelling
Chair: David Wozabal

1 - Optimizing donation portfolios with transaction costs for institutions of higher education
Sandra Ifrim

2 - New result on replicating portfolios
Ralf Werner

3 - Optimal investment decision under two sources of uncertainty
Rita Pimentel, Cláudia Nunes

4 - TEDAS - Tail Event ASset Allocation
Sergey Nasekin, Alla Petukhina

**WB-28**
Wednesday, 10:30-12:30 - HS 34

**OR in Defense**
Stream: OR for Security
Chair: Gustav Feichtinger
1. When is Information Sufficient for Action? Search with Unreliable Yet Informative Intelligence
   Moshe Kress

2. Optimizing counter-insurgency measures by asymmetric Lanchester models
   Andreas Novak, Gustav Feichtinger

3. Intelligence and Firepower in Counterinsurgencies
   Andrea Seidl, Gustav Feichtinger, Dieter Grass, Moshe Kress, Stefan Wrazczek

4. Managing Public Opinion While Fighting Terrorism
   Gustav Feichtinger, Jonathan Caulkins, Dieter Grass

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**WB-29**

Wednesday, 10:30-12:30 - SR IÖGF

Multiobjective Metaheuristics (c)

Stream: Multiple Criteria Decision Making
Chair: Martin Josef Geiger
Chair: Fabien Tricoire

1. A multiple criteria decision making model for scheduling tasks in cloud computing environment
   Khaled Sellami, Rabah Kassa, Djamal Dris

2. On properties and the complexity of multi-criteria sorting algorithms
   Thibaut Barthelemy, Sophie Parragh, Fabien Tricoire, Richard Hartl

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**WB-30**

Wednesday, 10:30-12:30 - Visitor Center

Stochastic Models for Supply-Chain Management (i)

Stream: Stochastic Models
Chair: Michael Manitz

1. Stochastic Dynamic Capacitated Lot-Sizing with uncertain production times
   Michael Kirste

2. Applying postponement as a risk management strategy in globally operating supply chains
   Christoph Weskamp, Leena Suhl

3. Performance evaluation of a lost sales, push - pull production-inventory system under supply and demand uncertainty
   Georgios Varlas, Michael Vidalis

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**WB-31**

Wednesday, 10:30-12:30 - Marietta Blau Saal

Health Care Operations Management I

Stream: Health and Disaster Aid
Chair: Katja Schimmelplang
Wednesday, 14:00-15:30

■ WC-02
Wednesday, 14:00-15:30 - HS 7

Project Management and Scheduling II (i)
Stream: Scheduling and Project Management
Chair: Norbert Trautmann

1 - Appointment scheduling in hospitals: sequencing and scheduling using timeaggregation
Sarah Kirchner, Marco Lübbecke

2 - An MILP-based heuristic for staff scheduling problems with acceptance levels
Tom Rihm, Philipp Baumann

3 - Efficient list-generation techniques for scheduling assessment centers
Adrian Zimmermann, Norbert Trautmann

■ WC-03
Wednesday, 14:00-15:30 - HS 16

Scheduling in Freight Rail Transport (i)
Stream: Scheduling and Project Management
Chair: Erwin Pesch

1 - A New Hierarchical Approach for Optimized Train Path Assignment with Traffic Days
Daniel Pöhle, Matthias Feil

2 - Modelling and Solving a Train Path Assignment Model With Traffic Day Restriction
Karl Nachtigall

3 - Two-way bounded dynamic programming approach for operations planning in transshipment yards
Alena Otto, Xiyu Li, Erwin Pesch

■ WC-04
Wednesday, 14:00-15:30 - HS 21

Special cases of the TSP (i)
Stream: Discrete Optimization
Chair: Isabella Hoffmann
Chair: Anja Fischer

1 - The Traveling Salesman Problem on Grids with Forbidden Neighborhoods
Anja Fischer, Philipp Hungerländer

2 - Approximation of the Maximum Scatter TSP on an Equidistant Grid
Isabella Hoffmann, Sascha Kurz, Jörg Rambau

■ WC-05
Wednesday, 14:00-15:30 - HS 23

POM applications I
Stream: Production and Operations Management
Chair: Sonja Kalkowski

1 - A multi criteria schedule construction heuristic for energy efficiency aware detailed production planning in a SIEMENS rail production factory
Rafael Fink

2 - Mixed integer linear programming model for the multi-stage production planning problem in dairy industry
Bilge Bilgen

3 - Reliable order promising with multidimensional anticipation of customer response
Sonja Kalkowski, Ralf Gössinger

■ WC-06
Wednesday, 14:00-15:30 - HS 24

Data Envelopment Analysis II
Stream: Production and Operations Management
Chair: Bernhard Mahlberg

1 - Data Envelopment Analysis for Panel Data
Oleg Badunenko

2 - Frontier Metatechnologies and Convexity: A Restatement
Kristiaan Kerstens, Christopher O’Donnell, Ignace Van de Woestyne

3 - Measuring input-specific productivity change through a Luenberger indicator based on the Principle of Least Action
Bernhard Mahlberg, Juan Aparicio, Magdalena Kapelko

■ WC-07
Wednesday, 14:00-15:30 - HS 26

Probabilistic Transportation Planning
Stream: Logistics and Transportation
Chair: Marlin Wolf Ulmer

1 - Single vehicle routing problem with a predefined customer sequence, stochastic demands and partial satisfaction of demands
Epaminondas Kyriakidis, Theodosis Dimitrakos

2 - Multi-objective Transportation Problem with Fuzzy Decision Variable using Multi-choice Goal Programming
Sankar Kumar Roy

■ WC-08
Wednesday, 14:00-15:30 - HS 27

Forecasting for TV audiences - Methods & Applications
Stream: Forecasting
Chair: Sven F. Crone
1 - Model for the audience forecasting in TV advertisement
Grzegorz Pawlak, Maciej Drozdowski, Malgorzata Sterna

2 - Identification of patterns in TV consumption
Igor Rotin

3 - Forecasting TV audiences with multivariate k-Nearest Neighbours - an empirical Evaluation
Sven F. Crone

WC-09
Wednesday, 14:00-15:30 - HS 30
Combinatorial Auctions
Stream: Game Theory
Chair: Martin Hoefer
1 - The Performance of Deferred-Acceptance Auctions
Paul Duetting, Vasilis Gkatzelis, Tim Roughgarden

2 - Combinatorial Auctions with Conflict-Based Externalities
Martin Starnberger, Yun Kuen Cheung, Monika Henzinger, Martin Hoefer

3 - Algorithms as Mechanisms: The Price of Anarchy of Relax-and-Round
Thomas Kesselheim, Paul Duetting, Eva Tardos

WC-10
Wednesday, 14:00-15:30 - HS 31
Multi-objective optimization in transport and logistics II
Stream: Logistics and Transportation
Chair: Sophie Parragh
1 - Bi-objective stochastic facility location
Fabien Tricoire, Sophie Parragh, Walter Gutjahr

2 - Multi-objective synchronized transportation for inner city freight deliveries
Alexandra Anderluh, Vera Hemmelmayr, Pamela Nolz

3 - Freshness vs. cost for an integrated lot sizing and vehicle routing model with perishable products
Christian Almeder, Pamela Nolz, Tom Vogel

WC-11
Wednesday, 14:00-15:30 - HS 32
Electric and Green Vehicle Routing
Stream: Logistics and Transportation
Chair: Jakob Puchinger
1 - Location, allocation, and routing decisions in an electric car sharing system
Hatice Calik, Bernard Fortz

2 - Effects of City Center Restriction Policies on the Tour Planning of Hybrid Heterogeneous Fleets
Gerhard Hiermann, Richard Hartl, Jakob Puchinger, Thibaut Vidal

3 - Location Planning of Charging Stations for Electric City Buses
Brita Rohrbeck, Peter Förster, Kilian Berthold

WC-12
Wednesday, 14:00-15:30 - HS 33
Maritime Logistics II
Stream: Logistics and Transportation
Chair: Joachim R. Daduna
1 - Shift Preview — Improve day to day operation with the means of simulation
Holger Schuet

2 - Maritime Logistics Strategies in Offshore Wind Energy
Holger Schuet, Kerstin Lange, Hans-Dietrich Haasis

3 - The Baltic Sea as a maritime highway in international multimodal transport
Joachim R. Daduna, Gunnar Prawe

WC-13
Wednesday, 14:00-15:30 - HS 41
Supply Chain Risk (i)
Stream: Supply Chain Management
Chair: Kamil Mizgier
1 - Sourcing Strategies and Supply Chain Risk Management
Preetam Basu

2 - Optimization of Collaborative Planning and Decision Making in the Tourism Supply Chains
Pairach Piboonrungroj

3 - On the Association Between Economic Cycles and Operational Disruptions
Kamil Mizgier, Stephan Wagner, Stylianos Papageorgiou

WC-14
Wednesday, 14:00-15:30 - HS 42
Multi-Objective Shortest Path Problems
Stream: Graphs and Networks
Chair: Stefan Ruzika
1 - Flood Mitigation Problems on Directed Graphs
Clemens Thielen
2 - Labeling algorithms for multi-objective robust shortest path problems
Lisa Thom, Andrea Raith, Marie Schmidt, Anita Schöbel

3 - Shortest paths with shortest detours: A biobjective routing problem
Stefan Ruzika, Carolin Torchiani, Jan Peter Ohst, David Willems

1 - Optimal newsvendor ordering decisions in the presence of supply uncertainty
Dimitrios Pandelis

2 - Inventory control with advance supply information
Marko Jaksic

3 - Some remarks to the shape of Clearing Functions
Frank Herrmann, Michael Manitz

WC-15
Wednesday, 14:00-15:30 - HS 45
Decision Making Models
Stream: Simulation and Decision Support
Chair: Fatima Dargam

1 - A decision support model for evaluating a B2B partnership
Mehdi Piltan, Taraneh Sowlati

2 - Appraising a Portfolio of Interdependent Physical and Digital Urban Infrastructure Investments: A Real Options Approach
Sebastian Maier, John Polak, David Gann

3 - Modeling Signals and Learning Effects on the Information Acquisition Incentives of Decision Makers in Sequential Search Processes
Francisco Javier Santos-Arteaga, Debora Di Caprio, Madjid Tavana

WC-16
Wednesday, 14:00-15:30 - HS 46
Optimization Modeling and Applications in Energy Sector
Stream: Energy and Environment
Chair: Gerhard-Wilhelm Weber

1 - Optimal Control of Stochastic Hybrid Systems with Jumps under Markov Switching Processes - Applications in the Sectors of Energy, Environment, Finance and Economics
Gerhard-Wilhelm Weber, Emel Savku, Nuno Azevedo, Diogo Pinheiro, A. Sevtap Selcuk Kestel

2 - Optimal Operation of Virtual Power Plants
Sleman Saliba, Sabine Böttner, Felix Geyer, Sven Krumke

3 - Natural Gas Consumption Forecasting Models for Residential User with New Robust Optimization Tools
Ayse Özmen, Gerhard-Wilhelm Weber

WC-18
Wednesday, 14:00-15:30 - HS 48
Energy Policy
Stream: Energy and Environment
Chair: Franz Wirl

1 - Changes in EU Future Natural Gas Supply and the Role of Turkish Hub
Yuri Yegorov, Jalal Dehnavi

2 - Competition for Land and the Role of Water and Forest
Yuri Yegorov

3 - The allocation of energy conservation
Franz Wirl

WC-19
Wednesday, 14:00-15:30 - HS 50
Applications in Energy
Stream: Energy and Environment
Chair: Florentina Paraschiv

1 - Optimization of hydro storage systems and indifference pricing of power contracts
Michael Schürle, Raimund Kovacevic, Florentina Paraschiv

2 - Probabilistic modelling of demand and wind power forecast errors for predicting day-ahead imbalances
Tuomas Rintamäki, Afzal Siddiqui, Ahti Salo

3 - A fully parametric approach for solving quantile regressions with time-varying coefficients - application to electricity prices
Florentina Paraschiv, Derek Bunn, Sjur Westgaard

WC-20
Wednesday, 14:00-15:30 - ÜR Germanistik 1
Simulation and Optimization for Service Operations under Uncertainty (i)
Stream: Stochastic Optimization
Chair: Siqian Shen
1 - Two-Stage Distributionally Robust Unit Commitment with Extended Linear Decision Rules
Yuanyuan Guo, Ruwei Jiang, Jianhui Wang

2 - Reconstructing Input Models via Simulation Optimization
Henry Lam, Aleksandrina Goeva, Bo Zhang

3 - Distributionally Robust Appointment Scheduling with Random No-shows and Service Durations
Siqian Shen, Ruwei Jiang, Yiling Zhang

1 - Integ rally maximal lattice-free polyhedra
Gennady Averkov

2 - An FPTAS for minimizing some quadratic polynomials over integer points in polyhedra
Robert Hildebrand

3 - A Feasible Active Set Method With Reoptimization for Convex Quadratic Mixed-Integer Programming
Long Trieu, Christoph Buchheim, Marianna De Santis, Stefano Lucidi, Francesco Rinaldi

1 - Two-stage stochastic gate assignment for LTL terminals
Lars Eufinger, Uwe Clausen

2 - Qualitative and Quantitative Stability of Stochastic Dominance Constraints in Recourse Models
Rüdiger Schultz, Matthias Claus

3 - Weak continuity of risk functionals with applications to 2-stage mean risk models
Matthias Claus

1 - Towards Managing Systemic Risk in Networked Systems
Vladimir Marbukh

2 - Robustness in Debiasing Judgemental Forecasts
Sebastian Blanc, Thomas Setzer

3 - Bounding the Dimensionality of a Multi-Dimensional Packing Problem's Solution Space
Thomas Setzer, Sebastian Blanc

1 - Truthful Combinatorial Assignment without Money
Salman Fadaei, Martin Bichler

2 - Target-Adjusted Utility Functions and Expected-Utility Paradoxes
Robert Day, Mark Schneider, Robert Gartinkel

3 - Cognitive time distortion as a source of economic risk
Fabian von Scheele, Darek Haftor

1 - Representations of the interior of the completely positive cone
Patrick Groetzner, Mirjam Duer

2 - On completely positive modeling of quadratic problems
Van Nguyen, Mirjam Duer

3 - On proper efficiency in multiobjective semi-infinite optimization
Jan-J Ruckmann

1 - A general closed form option pricing formula
Ciprian Necula, Erich Walter Farkas
2 - Portfolio Selection with Active Risk Monitoring
   Pawel Polak

3 - Stress-Testing in Asset and Liability Management: A Coherent Approach Extended Version
   Mario Schlener

WC-28
Wednesday, 14:00-15:30 - HS 34
Infrastructure Protection I (c)
Stream: OR for Security
Chair: Silja Meyer-Nieberg

1 - Conflicting Evidence in Bayesian Classification: Definition Approaches, Occurrences and Interpretation, Applications in Air and Sea Surveillance
   Max Krueger

2 - Aspects of Network Vulnerability by Using Transportation Networks
   Marian Sorin Nistor, Matthias Dehmer, Stefan Wolfgang Pickl

3 - Critical Infrastructure Protection and Simulation-Based Analyses: Risk Identification with the Help of Data Farming
   Silja Meyer-Nieberg, Dominik Hauschild, Stefan Luther, Martin Zsilkovits

WC-29
Wednesday, 14:00-15:30 - SR IÖGF
MCDM in System Design and Control (c)
Stream: Multiple Criteria Decision Making
Chair: Lena Charlotte Altherr

1 - Optimal Pulse-Doppler Waveform Design for VHF Solid-state Air Surveillance Radar
   Nikola Zogovic, Milos Jevtic, Stevica Graovac

2 - Hierarchical Models in Multiobjective Stochastic Dynamic Programming
   Tadeusz Trzaskalik, Maciej Nowak

3 - Multi-criterial Design of a Hydrostatic Transmission System by Mixed-Integer Programming
   Lena Charlotte Altherr, Thorsten Ederer, Ulf Lorenz, Philipp Pöttgen, Lucas Siervi Farnetane, Angela Vergé, Peter Pelz

WC-30
Wednesday, 14:00-15:30 - Visitor Center
Dynamic Planning (c)
Stream: Stochastic Models
Chair: Rainer Schlosser

1 - Tackling challenges for infrastructure investment planning under uncertainty
   Krystsina Bakhrankova, Arnt-Gunnar Lium, Adrian Werner

2 - A Robust Optimization Approach in Capacity Planning Under Service Constraints
   Hussein Naseraldin, Opher Baron

3 - Dynamic Pricing with Time-Dependent Elasticities
   Rainer Schlosser

WC-31
Wednesday, 14:00-15:30 - Marietta Blau Saal
Health Care Operations Management II
Stream: Health and Disaster Aid
Chair: Brigitte Werners

1 - The impact of non-electives on operating room planning
   Carla Van Riet, Erik Demeulemeester

2 - Perishability in integrated procurement and reprocessing planning of re-usable medical devices in hospitals
   Steffen Rickers, Florian Sahling

3 - Influence of appointment times on interday scheduling
   Matthias Schacht, Lara Wiesche, Brigitte Werners, Birgitta Weltermann
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<td>WD-04</td>
<td>Wednesday, 16:00-16:45</td>
<td>HS 21</td>
<td>Semi-plenary: Cook</td>
<td>The Traveling Salesman Problem: A Blueprint for Optimization&lt;br&gt;William Cook</td>
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<tr>
<td>WD-13</td>
<td>Wednesday, 16:00-16:45</td>
<td>HS 41</td>
<td>Semi-plenary: Vigo</td>
<td>Fifty Years of Heuristic Algorithms for the Vehicle Routing Problem&lt;br&gt;Daniele Vigo</td>
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<tr>
<td>WD-17</td>
<td>Wednesday, 16:00-16:45</td>
<td>HS 47</td>
<td>Semi-plenary: Grüne</td>
<td>From now to infinity: decision making on a moving horizon&lt;br&gt;Lars Grüne</td>
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<td>WD-19</td>
<td>Wednesday, 16:00-16:45</td>
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<td>Semi-plenary: Leung</td>
<td>Humanitarian Logistics: Models and Challenges&lt;br&gt;Janny Leung</td>
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<tr>
<td>WE-02</td>
<td>Wednesday, 17:00-18:30</td>
<td>HS 7</td>
<td>Project Management and Scheduling III (c)</td>
<td>A decision support system for multi-mode project scheduling, monitoring and control&lt;br&gt;Oncu Hazir, Klaus Werner Schmidt</td>
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<td>Optimal rescheduling in automotive industry&lt;br&gt;Markus Kruber, Jonas Witt, Marco Lübbecke</td>
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<td>A multi-commodity flow-based mixed-integer linear programming formulation for nurse rostering problems&lt;br&gt;Michael Römer</td>
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<td>WE-03</td>
<td>Wednesday, 17:00-18:30</td>
<td>HS 16</td>
<td>Diploma/Master Thesis Prizes</td>
<td>Development, implementation and analysis of exact algorithms for detecting cliques and clique relaxations in networks&lt;br&gt;Isabel Podlinski</td>
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<td>Exploiting Solving Phases for Mixed Integer Programs&lt;br&gt;Gregor Hendel</td>
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<td>An Extended Formulation for the Line Planning Problem&lt;br&gt;Heide Hoppmann</td>
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<tr>
<td>WE-04</td>
<td>Wednesday, 17:00-18:30</td>
<td>HS 21</td>
<td>Combinatorial optimization in graphs (c)</td>
<td>Polynomial-time approximability of the k-Sink Location problem&lt;br&gt;Yuya Higashikawa, Remy Belmonte, Naoki Katoh, Yoshio Okamoto</td>
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<td>Precedence Constrained Knapsack Problems and an Application to Open Pit Mining&lt;br&gt;Andreas Wierz, Britta Peis, Thomas S. McCormick</td>
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WE-05
Wednesday, 17:00-18:30 - HS 23
POM applications II
Stream: Production and Operations Management
Chair: Dmitry Efrosinin
1 - Development of Mathematical Optimization Model of a Coal Concentrate Procurement. OAO MMK’s Case Study. Andrey Lipatnikov, Anna Stepanova, Dmitriy Shnaider
2 - Change Point Detection In Piecewise Stationary Time Series For Farm Animal Behaviour Analysis Dmitry Efrosinin, Sandra Breitenberger, Wolfgang Auer, Andreas Deininger, Ralf Wassmuth

WE-06
Wednesday, 17:00-18:30 - HS 24
Lotsizing and Inventory Management I
Stream: Production and Operations Management
Chair: Horst Tempelmeier
1 - Evaluating the Reliability of Inventories Tobias Winkelkotte, Manuela Gärtner, Sascha Herrmann
2 - Stochastic Dynamic Capacitated Lot-Sizing under Consideration of Customer Order Waiting Times Timo Hilger, Horst Tempelmeier
3 - Single Machine Multi-product Capacitated Lotsizing and Scheduling Problem with Supplier Selection and Carrier Selection Mehdi Bijari, Maedeh Sharbaf

WE-07
Wednesday, 17:00-18:30 - HS 26
Uncertainty in Vehicle Routing
Stream: Logistics and Transportation
Chair: Dirk Christian Mattfeld
Chair: Marlin Wolf Ulmer
1 - Anticipatory heuristics for a real-world dial-a-ride problem Ulrike Ritzinger, Jakob Puchinger, Richard Hartl
2 - Dynamic Routing for Same Day Delivery Marlin Wolf Ulmer, Dirk Christian Mattfeld

WE-08
Wednesday, 17:00-18:30 - HS 27
Forecasting - Applications (c)
Stream: Forecasting
Chair: Oliver Ruhnau
1 - Inspection of the Validity in the Frequent Shoppers Program by Using Particle Filter Shinsuke Suzuki, Kei Takahashi
2 - Consistent Forecast-Based Inventory Model Torben Engelmeier
3 - Comparative Analysis of Day-Ahead Feed-In Forecasts for Photovoltaic Systems and Economic Implications of Enhanced Forecast Accuracy Oliver Ruhnau, Reinhard Madlener

WE-09
Wednesday, 17:00-18:30 - HS 30
Approximate Equilibria
Stream: Game Theory
Chair: Alexander Skopalik
1 - On Approximate Equilibria in Network Creation Games Pascal Lenzner
2 - Computing Approximate Nash Equilibria in Network Congestion Games with Polynomially Decreasing Cost Functions Luca Moscardelli, Vittorio Bilò, Michele Flammini, Gianpiero Monaco
3 - Approximate Pure Nash Equilibria in Bandwidth Allocation Games Maximilian Drees, Matthias Feldotto, Alexander Skopalik

WE-10
Wednesday, 17:00-18:30 - HS 31
Transportation Problems with Synchronization Constraints
Stream: Logistics and Transportation
Chair: Julia Funke
2 - Measuring the impacts of synchronization constraints on route composition and sequencing Jörn Schönberger
3 - Containers drayage problem with simultaneous routing of vehicles and handling equipment
Milorad Vidovic, Nenad Bjelic, Drazen Popovic

WE-11
Wednesday, 17:00-18:30 - HS 32
Eco-oriented logistics planning
Stream: Logistics and Transportation
Chair: Christian Bierwirth
Chair: Thomas Kirschstein
1 - GHG-emission models for assessing the eco-friendliness of road and rail freight transports
Frank Meisel, Thomas Kirschstein
2 - A Comparison of Hybrid Electric Vehicles with Plug-in Hybrid Electric Vehicles for End Customer Deliveries
Christian Doppstadt
3 - Solving a pollution routing problem under emission allocation selection rules
Christian Bierwirth, Thomas Kirschstein

WE-12
Wednesday, 17:00-18:30 - HS 33
Maritime and Hinterland Logistics
Stream: Logistics and Transportation
Chair: Anna Kolmykova
1 - Measurement of port connectivity
Irina Dovbischuk
2 - Optimal transportation mode decision under uncertainty with an intermodal option
Klaus Alten dorfer, Stefan Minner
3 - Short Sea Shipping Network Integration: the impact on performance
Anna Kolmykova, Hans-Dietrich Haasis

WE-13
Wednesday, 17:00-18:30 - HS 41
Supply Chain Coordination (i)
Stream: Supply Chain Management
Chair: Stefan Woerner
1 - Coordination of a Supply Chain of Mobile Applications under Risk Consideration
Tatyana Chernonog, Tal Avinadav, Yael Perlman
2 - Supply chain coordination under asymmetric information and partial vertical integration
Grigory Pischulov, Knut Richter, Sougand Golesorkhi
3 - Bonus or Penalty? Designing Service Level Agreements with Different Performance Targets
Stefan Woerner, Yueshan Chu, Marco Laumanns, Stephan Wagner

WE-14
Wednesday, 17:00-18:30 - HS 42
Optimization of Energy Systems (i)
Stream: Graphs and Networks
Chair: Arie Koster
Sebastian Goderbauer, Arie Koster, Marco Lübbecke, Björn Bahl, Andre Bardow, Philip Voll
2 - Exact Approaches to the Network Design Problem with Relays
Ivana Ljubic, Markus Leitner, Mario Ruthmair, Martin Riedler
3 - Polyhedral Aspects of Power Grid Design
Arie Koster, Stephan Lemkens

WE-15
Wednesday, 17:00-18:30 - HS 45
Decision Analysis & Optimization Methods
Stream: Simulation and Decision Support
Chair: Fatima Dargam
1 - Decisions on optimal product portfolio plans: Can they be derived from consumers’ psychographic variables?
Friederike Paetz
2 - Portfolio optimization in the downside risk framework with loss aversion
Cristinca Fulga

WE-16
Wednesday, 17:00-18:30 - HS 46
Cycle Packing (c)
Stream: Graphs and Networks
Chair: Peter Recht
1 - A Dynamic Programming Approach for the Maximum Cycle Packing Problem
Peter Recht
2 - Maximum cycle packings in fullerene graphs
Stefan Stehlings
3 - Maximum Cycle Packings by Decomposing a Graph into 3-Connected Components
Christin Otto

WE-17
Wednesday, 17:00-18:30 - HS 47
Allocation and Coordination (c)
Stream: Supply Chain Management
Chair: Marc-Andre Weber

1 - Multi-Period Supply Allocation In Advanced Planning
Alexander Seitz, Martin Grunow

2 - Omni-channel inventory allocation of seasonal goods
Andreas Holzapfel, Alexander Hübner, Heinrich Kuhn

3 - Coordination as target of model-based optimization approaches to APS-Systems
Marc-Andre Weber, Rainer Leisten

WE-18
Wednesday, 17:00-18:30 - HS 48
New Directions in Energy Research
Stream: Energy and Environment
Chair: Reinhard Madlener

1 - Investments in Flexibility Measures for Gas-Fired Power Plants: A Real Options Approach
Barbara Glensk, Christiane Rosen, Reinhard Madlener

2 - Well Drainage Optimization in Mining Accounting for Electricity Price Uncertainty
Reinhard Madlener, Mathias Lohaus

3 - Risk Analysis of Energy Performance Contracting Projects in Russia: An Analytic Hierarchy Process Approach
Maria Garbuzova-Schlifter, Reinhard Madlener

4 - The Future Expansion of HVDC Power Transmission in Brazil: A Scenario-Based Economic Evaluation
Christian Köhnke-Mendonca, Christian Oberst, Reinhard Madlener

WE-19
Wednesday, 17:00-18:30 - HS 50
(c) Energy Markets
Stream: Energy and Environment
Chair: David Wozabal

1 - Modelling the EU ETS
Andreas Schröder

2 - Bidding in German Electricity Markets — Opportunities for CHP Plants
Nadine Kumbartzky, Matthias Schacht, Katrin Schulz, Brigitte Werners

3 - Error Correction Neural Networks for Electricity Price Forecasting: Evidence from NWE Markets
Merlind Weber

4 - Contribution of variable renewable energies to generation adequacy - A locational marginal approach
Simeon Hagspiel

WE-20
Wednesday, 17:00-18:30 - ÜR Germanistik 1
Risk measures and their use in stochastic optimization (c)
Stream: Stochastic Optimization
Chair: Georg Pflug

1 - The Benefit of Exploiting Conditional Independences in Network Reliability Calculations
Tamas Szantai, Edith Kovacs

2 - Multivariate Risk Tomography
Jinwook Lee, Andras Prekopa

3 - Price Risk Based Power Portfolio Optimization with Liquidity Constraints
Gergely Mádi-Nagy

WE-21
Wednesday, 17:00-18:30 - ÜR Germanistik 2
Gas Transportation and Applications in Engineering
Stream: Stochastic Optimization
Chair: Claudia Stangl

1 - Optimization on gas networks governed by the isothermal Euler equations
David Wintergerst

2 - A Data Based Multiparametric Programming Methodology Using Ordinary Kriging Metamodels
Ahmed Shokry, Antonio Espuña

3 - Building Nominations for Real-Life Gas Transportation Networks
Claudia Stangl, Benjamin Hiller, Robert Schwarz

WE-22
Wednesday, 17:00-18:30 - ÜR Germanistik 3
Performance Measurement and Incentives (i)
Stream: Accounting and Revenue Management
Chair: Thomas Pfeiffer
Chair: Markus Grottke
1 - Goal congruence and preference similarity between principal and agent with differing time horizons — setting incentives under risk
   Josef Schosser, Markus Grottke

2 - Relative Performance Evaluation, Strategic Differentiation and Endogenous Correlation Levels
   Peter Schaefner

3 - Utility-based investment neutral tax systems for decisions of tax payers with heterogeneous risk attitudes
   Markus Grottke, Markus Diller, Josef Schosser

WE-23
Wednesday, 17:00-18:30 - UR Germanistik 4
Integer Programming Models for Ordering Problems
Stream: Integer Programming
Chair: Philipp Hungerländer

1 - Optimal Scheduling of Latency-constrained Tasks by Branch-and-Cut
   Sven Mallach

2 - New ILP Approaches for Row Layout Problems
   Frank Fischer, Philipp Hungerländer, Anja Fischer

WE-24
Wednesday, 17:00-18:30 - UR Germanistik 5
DEA & Education (c)
Stream: Analytics
Chair: Ralph Grothmann

1 - Applying Analytics and Optimization using AIMMS: An Educational Perspective
   Ovidiu Listes

2 - Two Stage Data Envelopment Analyses
   Zilla Sinuany-Stern

3 - An Analysis of Technical and Scale Efficiencies of the Brazilian Civil Construction Sector Using DEA Models
   Carlos Ernani Fries, Paulo Henrique Rodrigues, Fernanda Christmann

WE-26
Wednesday, 17:00-18:30 - SR Geschichte 1
Variational Problems and Equilibria
Stream: Continuous Optimization
Chair: Giancarlo Bigi

1 - An iterative algorithm for solving the Constrained Equilibrium problem
   Paulo Sergio Marques Santos, Susana Scheinberg

WE-27
Wednesday, 17:00-18:30 - SR Geschichte 2
Risk measures and utility
Stream: Financial Modelling
Chair: Emanuela Rosazza Gianin

1 - Portfolio Choice Under Cumulative Prospect Theory: Sensitivity analysis and an empirical study
   Elisa Mastrogiacomo, Asmerilda Hitaj

2 - Return Risk Measurement: Orlicz-Type Measures of Risk
   Emanuela Rosazza Gianin, Fabio Bellini, Roger Laeven

WE-28
Wednesday, 17:00-18:30 - HS 34
Infrastructure Protection II and IT security (c)
Stream: OR for Security
Chair: Alf Kimms

1 - Cologne Mass Casualty Incident Exercise 2015 - Evaluation by Use of Linked Databases to Improve Risk and Crisis Management in Critical Infrastructure Protection
   Florian Brauner, Onpe Aime Mudimu, Alex Lechleuthner, Andreas Lotter

2 - Robust optimization of IT security safeguards using standard security data
   Andreas Schilling

3 - A multi-objective Cat Swarm optimization for Intrusion Detection in cloud computing Environments
   Lynda Sellami

4 - Bi-Objective Safe and Resilient Urban Evacuation Planning
   Marc Maiwald, Alf Kimms

WE-29
Wednesday, 17:00-18:30 - SR IÖGF
Evolutionary Multiobjective Optimization
Stream: Multiple Criteria Decision Making
Chair: Sanaz Mostaghim
Chair: Günter Rudolph
1 - A-posteriori Optimization for Many-objective Problems - Is There a Future?  
Robin Purshouse

2 - Evolutionary Approaches to the Multiobjective Orienteering TSP with Time Constraints  
Günter Rudolph

WE-30  
Wednesday, 17:00-18:30 - Visitor Center  
Statistics and Estimation (c)  
Stream: Stochastic Models  
Chair: Nora Dörmann

1 - Designing and analyzing tolerances of unidentified distributions: using stochastic method  
Mohammad Mehdi Movahedi

2 - Nonparametric estimation of replacement rates  
Nora Dörmann

3 - Greedy algorithm for the construction of truncated vine copulas by exploiting some of the conditional independences between the random components  
Edith Kovacs, Tamas Szantai

WE-31  
Wednesday, 17:00-18:30 - Marietta Blau Saal  
IBM Decision Optimization on Cloud  
Stream: OR Software, Modelling Languages  
Chair: Susara van den Heever

1 - Bringing prescriptive analysis into an analytics service dedicated to LOB users  
Xavier Ceugniet

2 - The use of cloud-based decision optimization in an energetic flexibility market platform  
Olle Sundstroem

3 - Taking Sales and Operations Planning to the next level with IBM Analytics on Cloud  
Hans Schlenker

4 - Prescriptive analytics on the cloud with Python  
Vincent Beraudier, Philippe Couronne
### TA-02
**Thursday, 8:30-10:00**

**Project Management and Scheduling IV (i)**

- **Stream:** Scheduling and Project Management  
  **Chair:** Walter Gutjahr

1. **Lot Sizing and Scheduling for Biopharmaceutical Production**  
   Juergen Branke

2. **Stochastic project scheduling and personnel planning of multiple projects with multi-skilled human resources**  
   Thomas Felberbauer, Walter Gutjahr, Karl Doerner

3. **Scheduling chains of unit-time multiprocessor tasks with a weighted completion time objective**  
   Roland Braune

---

### TA-03
**Thursday, 8:30-10:00 - HS 16**

**New Research Directions in Scheduling (i)**

- **Stream:** Scheduling and Project Management  
  **Chair:** Thorsten Ederer

1. **The production routing problem with pickups and deliveries**  
   Florian Sahling

2. **An infinite-dimensional Skorohod map as a model for priority**  
   Rami Atar

3. **Algorithmic System Design using Scaling Laws**  
   Thorsten Ederer, Lena Charlotte Altherr, Philipp Pöttgen, Christian Schänzle, Ulf Lorenz, Peter Pelz

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### TA-04
**Thursday, 8:30-10:00 - HS 21**

**Facility location problems (c)**

- **Stream:** Discrete Optimization  
  **Chair:** Bettina Klinz

1. **Composed min-max and min-sum radial approach to the emergency system design**  
   Marek Kvet, Jaroslav Janacek

2. **A Constant-Factor Local Search Approximation for Two-Stage Facility Location Problems**  
   Felix J. L. Willamowski, Andreas Bley

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### TA-05
**Thursday, 8:30-10:00 - HS 23**

**POM applications III**

- **Stream:** Production and Operations Management  
  **Chair:** Sven Krumke

1. **Optimization model for the design of levelling patterns with setup and lot-sizing considerations**  
   Mirco Boning, Heiko Breier, Dominik Berbig

2. **Optimizing profit for energy distribution in the German electricity market**  
   Sabine Büttner, Felix Geyer, Sven Krumke, Sleman Saliba

3. **Optimizing Open Pit Block Scheduling with Exposed Ore Reserve**  
   Jorge Amaya, Jose Saavedra-Rosas, Enrique Jelvez, Nelson Morales

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### TA-06
**Thursday, 8:30-10:00 - HS 24**

**Metaheuristics I (c)**

- **Stream:** Metaheuristics  
  **Chair:** Christian Puchert

1. **Heuristics based on ng-Relaxation for large scale CVRP instances**  
   Elena Rocchi, Francesco Strappaveccia, Marco Antonio Boschetti, Vittorio Maniezzo

2. **Truly Problem Independent Hyper-heuristics Framework**  
   Mateusz Cichenski, Jacek Blazewicz, Grzegorz Pawlak

3. **Search Strategies for MIP Diving Heuristics**  
   Christian Puchert, Marco Lübbecke

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### TA-07
**Thursday, 8:30-10:00 - HS 26**

**Districting and Clustering Problems (c)**

- **Stream:** Logistics and Transportation  
  **Chair:** Stefan Nickel

1. **The multi-period sales districting problem: An introduction and a heuristic approach**  
   Matthias Bender, Nitin Ahuja, Boris Amberg, Anne Meyer, Stefan Nickel
OR 2015 - Vienna

2 - Geometric Algorithms for Districting Problems
Alexander Butsch, Stefan Nickel

TA-09
Thursday, 8:30-10:00 - HS 30
Network Games
Stream: Game Theory
Chair: Pascal Lenzner
1 - A Network Game of Resource Providers
Andreas Cord-Landwehr
2 - Multicast Network Design Game on a Ring
Akaki Mamageishvili, Matúš Mihalák

TA-10
Thursday, 8:30-10:00 - HS 31
Compound Vehicle Routing Problems (c)
Stream: Logistics and Transportation
Chair: Stefan Irnich
1 - Auto-Carrier Transportation Problem with Pickup and Delivery Operations
Marcel Schmickerath, Dirk Briskorn
2 - Cluster-based routing for small package delivery
Timo Hintsch, Stefan Irnich
3 - Vehicle assignment in the long-term planning of intercity bus transportation
Balazs David, Miklos Kresz

TA-11
Thursday, 8:30-10:00 - HS 32
Energy-efficient Mobility I
Stream: Logistics and Transportation
Chair: Christoph Helmberg
1 - Algorithmic Methods for Flight Trajectory Optimization on the Airway Network
Marco Blanco, Nam Dung Hoang, Ralf Borndörfer, Thomas Schlechte
2 - European Air Traffic Flow Management with Conflict-Potential Reduction
Jan Berling, Alexander Lau, Volker Gollnick
3 - Freeflight Route Planning
Armin Fügenschuh, Liana Amaya Moreno, Zhi Yuan

TA-12
Thursday, 8:30-10:00 - HS 33
Railway Planning I (c)
Stream: Logistics and Transportation
Chair: Pascal Lutter
1 - On Optimally Allocating Tracks in Complex Railway Stations
Reyk Weiß, Michael Kümmel, Jens Opitz
2 - Train Platforming at a Terminal and Its Adjacent Station to Maximize Throughput
Susumu Morito, Kousuke Hara, Jun Imaizumi, Satoshi Kato
3 - Optimization models for decision support at motorail terminals
Pascal Lutter

TA-13
Thursday, 8:30-10:00 - HS 41
Closed-Loop Supply Chains (i)
Stream: Supply Chain Management
Chair: Tina Wakolbinger
1 - Revisiting the consumers’ willingness-to-pay approach in reverse logistics and closed-loop supply chain modeling
Gernot Lechner, Thomas Nowak
2 - Integrating dual sourcing with recycling options for the procurement of critical and conflict materials
Patricia Rogetzer, Lena Silbermayr, Werner Jammernegg
3 - Optimal used-product acquisition by a recommerce provider
Gerrit Schumacher

TA-14
Thursday, 8:30-10:00 - HS 42
Robust and Bi-Level Network Optimization (c)
Stream: Graphs and Networks
Chair: Dennis Michaels
1 - The Budgeted Minimum Cost Flow Problem with unit Cost
Annika Thome, Christina Büsing, Sarah Kirchner
2 - A robust optimization model for a combined heat and power plant with a heat storage.
Nils Spiekermann, Stefano Coniglio, Alexander Hein, Arie Koster, Olaf Syben
3 - Robust perfect matchings
Dennis Michaels, David Adjashvili, Viktor Bindevald

TA-15
Thursday, 8:30-10:00 - HS 45
Simulation: Frameworks, Concepts, and Tools
Stream: Simulation and Decision Support
Chair: Joachim Block
1 - Machine Configuration via Simulation-Based Optimization
Jens Weber, Wilhelm Dangelmaier

2 - A new advancement in Ranking and Selection; Ranking Algorithms
Jawad Elomari

3 - A Conceptual Framework for Developing Multi-method Simulation Models
Joachim Block

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**TA-16**

Thursday, 8:30-10:00 - HS 46

**Time Series, Electric Vehicles and Semantic Analysis (c)**

Stream: Graphs and Networks
Chair: Jörg Rambau

1 - The onset of congestion in charging of electric vehicles for proportionally fair network management protocol
Lubos Buzna, Rui Carvalho

2 - Q3-d3-lsa
Lukas Borke

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**TA-17**

Thursday, 8:30-10:00 - HS 47

**Cooperative Games I (c)**

Stream: Game Theory
Chair: Tamás Solymosi

1 - On the Inverse Problem and the Coalitional Rationality of values and semivalues.
Irinel Dragan

2 - The monotonicity of the nucleolus of assignment games
Miklos Pinter, Jaime Brugueras, Tamás Solymosi, T. E. S. Raghavan

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**TA-18**

Thursday, 8:30-10:00 - HS 48

**Network Management Regimes in Electricity and Gas Markets**

Stream: Energy and Environment
Chair: Gregor Zöttl
Chair: Martin Schmidt

1 - Transmission and Generation Investment in Electricity Markets: The Effects of Market Splitting and Network Fee Regimes
Martin Schmidt, Veronika Grimm, Alexander Martin, Martin Weibelzahl, Gregor Zöttl

2 - Regionally Differentiated Network Fees to Provide Proper Incentives for Generation Investment
Christian Solch, Veronika Grimm, Bastian Rückel, Gregor Zöttl

3 - Technical Capacities of Gas Transportation Networks – Theoretical and computational challenges
Lars Schewe, Christine Hayn

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**TA-19**

Thursday, 8:30-10:00 - HS 50

**Optimal compensation schemes for power markets and electricity demand systems**

Stream: Energy and Environment
Chair: Martin Densing

1 - A Demand Side Management model for load scheduling in healthcare facilities
Paolo Pisciella

2 - Minimizing discontinuities in electricity tariff structures
Kai Helge Becker, Alex Bahnisch

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**TA-20**

Thursday, 8:30-10:00 - UR Germanistik 1

**Optimal decisions for stochastic models (c)**

Stream: Stochastic Optimization
Chair: Jannik Vogel

1 - Adaptive simulated annealing with homogenization for aircraft trajectory optimization in a random environment
Clément Bouthier, Sébastien Gadat, Sébastien Gerchinovitz, Florence Nicol

2 - Decision models for queueing systems with adaptive service rates
Jannik Vogel, Raik Stolletz

3 - Estimating Performance in a Mobile Fulfillment System
Tim Lamballais Tessensohn

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**TA-21**

Thursday, 8:30-10:00 - UR Germanistik 2

**Advances in Stochastic Optimization I (i)**

Stream: Stochastic Optimization
Chair: Huifu Xu

1 - SAA Regularized Methods for Multi-Product Price Optimization under the Pure Characteristics Demand Model
Hailin Sun
2 - Scenario tree reduction algorithms based on a new distance function  
    Zhiping Chen

3 - CVaR Risk Measures and Minimax Limits  
    Huifu Xu

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<td><strong>Advanced Analytics in Revenue Management (i)</strong></td>
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<tr>
<td>Stream: Accounting and Revenue Management</td>
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<td>Chair: Catherine Cleophas</td>
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<tr>
<td>1 - Nonparametric Demand Estimation in Airline Revenue Management</td>
<td>Johannes Ferdinand Jörg, Catherine Cleophas</td>
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<tr>
<td>2 - Optimal pricing of discrete and continuous airfares in the presence of endogeneity for revenue maximization</td>
<td>Jan Felix Meyer, Goeran Kauermann</td>
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<td>3 - More efficient forecasting for airline revenue management</td>
<td>Alexander Dyskin</td>
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<tr>
<td><strong>Decomposition in Integer Programming (c)</strong></td>
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<td>Stream: Integer Programming</td>
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<td>Chair: Jonas Witt</td>
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<tr>
<td>1 - A Benders Decomposition Approach for Static Data Segment Location to Servers Connected by a Tree Backbone</td>
<td>Goutam Sen, Narayan Rangaraj, Mohan Krishnamoorthy, Vishnu Narayanan</td>
</tr>
<tr>
<td>2 - Dantzig-Wolfe Reformulations for the Stable Set Problem</td>
<td>Jonas Witt, Marco Lübbecke</td>
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<tr>
<th><strong>TA-24</strong></th>
<th>Thursday, 8:30-10:00 - UR Germanistik 5</th>
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<tbody>
<tr>
<td><strong>Social Networks &amp; Customer Reviews (c)</strong></td>
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<tr>
<td>Stream: Analytics</td>
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<tr>
<td>Chair: Jochen Gönsch</td>
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<tr>
<td>1 - Models and Methods for the Analysis of the Diffusion of Skills in Social Networks</td>
<td>Alberto Ceselli, Marco Cremonini, Simeone Cristofaro</td>
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<tr>
<th><strong>TA-25</strong></th>
<th>Thursday, 8:30-10:00 - UR Alte Geschichte</th>
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<tbody>
<tr>
<td><strong>Fuzzy Decision Systems</strong></td>
<td></td>
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<tr>
<td>Stream: Neural Networks and Fuzzy Systems</td>
<td></td>
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<tr>
<td>Chair: Jaroslav Ramik</td>
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<tr>
<td>1 - What automaton model captures decision making? A call for finding a behavioral taxonomy of complexity</td>
<td>Bodo Vogt</td>
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<tr>
<td>2 - Incomplete preference matrix on alo-group and its application to ranking of alternatives</td>
<td>Jaroslav Ramik</td>
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<thead>
<tr>
<th><strong>TA-26</strong></th>
<th>Thursday, 8:30-10:00 - SR Geschichte 1</th>
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<tbody>
<tr>
<td><strong>Optimization Algorithms and Duality (c)</strong></td>
<td></td>
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<tr>
<td>Stream: Continuous Optimization</td>
<td></td>
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<tr>
<td>Chair: Nico Strasdat</td>
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<tr>
<td>1 - Adaptive Representation of Large 3D Point Clouds for Shape Optimization</td>
<td>Damir Vucina, Milan Ćurković</td>
</tr>
<tr>
<td>2 - Efficient optimization of hyper-parameters for least squares support vector regression</td>
<td>Nico Strasdat, Andreas Fischer, Gerd Langensiepen, Klaus Luig, Thorsten Thies</td>
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<tr>
<th><strong>TA-27</strong></th>
<th>Thursday, 8:30-10:00 - SR Geschichte 2</th>
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<tbody>
<tr>
<td><strong>Stochastic optimization in energy trading</strong></td>
<td></td>
</tr>
<tr>
<td>Stream: Financial Modelling</td>
<td></td>
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<tr>
<td>Chair: Nils Löhndorf</td>
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<tr>
<td>1 - Optimal gas storage valuation and futures trading under a high-dimensional price process</td>
<td>Nils Löhndorf, David Wozabal</td>
</tr>
<tr>
<td>2 - Medium-Term Planning for an Alpine Hydro Storage Power System in a Market Environment by Stochastic Optimization</td>
<td>Andreas Eichhorn, Nils Löhndorf</td>
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</tbody>
</table>
Thursday, 10:30-12:30

■ TB-02
Thursday, 10:30-12:30 - HS 7
Scheduling Theory (i)
Stream: Scheduling and Project Management
Chair: Florian Jaehn
1 - Multistage Online Scheduling
   Michael Hopf, Clemens Thielen, Oliver Wendt
2 - Resource constraints in scheduling: a unified approach
   Sergey Sevastyanov

■ TB-03
Thursday, 10:30-12:30 - HS 16
New Scheduling Algorithms and Applications (i)
Stream: Scheduling and Project Management
Chair: Lennart Zey
1 - The No-Wait Job Shop with Regular Objective: A Method Based on Optimal Job Insertion
   Reinhard Bürgy, Heinz Gröflin
2 - Designing a Mathematical Model for the Multi-Degree Cyclic Flow Shop Robotic Cell with Multiple Robots
   Seyda Topaloglu, Atabak Elmi
3 - Scheduling three co-operating stacking cranes with predetermined container sequences
   Lennart Zey, Dirk Briskorn
4 - Single machine scheduling to minimize total earliness-tardiness with unavailability period
   Gur Mosheiov

■ TB-04
Thursday, 10:30-12:30 - HS 21
Integer programming and applications (c)
Stream: Discrete Optimization
Chair: Marco Lübbecke
1 - An Experimental Study of Algorithms for Controlling Palletizers
   Jochen Rethmann, Frank Gurski, Egon Wanke
2 - Unbalanced Lagrangean Decomposition for Map Labeling
   Luiz A. N. Lorena, Sóstenes Gomes, Glaydston Ribeiro, Geraldo Mauri

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3 - Calculation of a power price equilibrium under risk averse trading of futures contracts
   Raphael Hauser, Miha Troha

■ TA-28
Thursday, 8:30-10:00 - HS 34
Control theory for supply chain and operations management
Stream: Control Theory
Chair: Virginia Spiegler
1 - Dynamic optimal production path in the oil reserves: how upstream contracts distort it? psc perspective
   Fazel M. Farimani, Ali Taheri-Fard
2 - Investigating limit cycles in nonlinear production and inventory control models
   Virginia Spiegler, Mohamed Naim, Denis Towill
3 - Control-theoretic framework for ripple effect and the supply chain structure dynamics
   Dmitry Ivanov, Boris Sokolov

■ TA-29
Thursday, 8:30-10:00 - SR IÖGF
Robustness in Multiple Criteria Decision Making (c)
Stream: Multiple Criteria Decision Making
Chair: Silvia Vogel
1 - First Approaches to Regularization Robustness in Multi-Objective Optimization
   Corinna Krüger, Anita Schöbel, Gabriele Eichfelder
2 - Measuring Robustness in Surrogate Weight Methods
   Love Ekenberg, Mats Danielson
3 - Confidence Sets in Multiobjective Optimization
   Silvia Vogel

■ TA-31
Thursday, 8:30-10:00 - Marietta Blau Saal
Software for Optimization under Uncertainty
Stream: OR Software, Modelling Languages
Chair: Ronald Hochreiter
1 - Integrating CMPL with SolverStudio
   Mike Steglich, Andrew J Mason
2 - Introducing new release 5.0 of the MPL Modeling System and the OptiMax Component Library
   Bjarni Kristjansson
3 - Open Source Multi-Stage Scenario Tree Generation
   Ronald Hochreiter
3 - Calculating maximal capacities in gas transportation networks
Christine Hayn, Lars Schewe

4 - Robust two-stage network problems
Adam Kasperski, Pawel Zielinski

---

**TB-05**
Thursday, 10:30-12:30 - HS 23

**POM applications IV**

Stream: Production and Operations Management
Chair: Raik Stolletz

1 - Strategic ramp-up planning in automotive production networks
Annika Becker, Raik Stolletz, Thomas Staeblein

2 - The allocation of Kanban cards in stochastic and time-dependent production systems
Justus Arne Schwarz, Raik Stolletz

3 - Optimal allocation of buffer capacities in stochastic flow lines with limited supply
Sophie Weiss, Raik Stolletz

4 - Determining Transient Throughput of Transfer Lines in Pull Systems
Mahmut Ali Gokce

---

**TB-06**
Thursday, 10:30-12:30 - HS 24

**Metaheuristics II (c)**

Stream: Metaheuristics
Chair: Patrick Gerhards

1 - A hybrid approach of optimization and sampling for robust portfolio selection
Omar Ritiki, Hirotaka Ono

2 - A metaheuristic for resource constrained project scheduling problems
Patrick Gerhards, Christian Stürck

---

**TB-07**
Thursday, 10:30-12:30 - HS 26

**Complex Optimization Problems in Logistics (c)**

Stream: Logistics and Transportation
Chair: Sigrid Knust

1 - Simulation and evaluation of control mechanisms for mobile robot fulfillment systems
Marius Merschformann, Lin Xie, Hanyi Li, Leena Suhl

---

**TB-08**
Thursday, 10:30-12:30 - HS 27

**Financial Forecasting**

Stream: Forecasting
Chair: Theo Berger

1 - Psychological Mechanisms Supporting Preservation of Asset Price Characterisations
Daphne Sobolev, Nigel Harvey

2 - Medium to Long-Term Prediction of Exchange Rates
Julian Bruns, Sebastian Blanc

3 - Wavelet decomposition and applied portfolio management
Theo Berger

4 - Dynamic Factor Model with infinite-dimensional factor space: forecasting.
Marco Lippi

---

**TB-09**
Thursday, 10:30-12:30 - HS 30

**Congestion Games (i)**

Stream: Game Theory
Chair: Max Klimm

1 - Tight Bounds for Cost-Sharing in Weighted Congestion Games
Grammateia Kotsialou, Martin Gairing, Konstantinos Kollias

2 - Matroids are immune to Braess paradox
Britta Peis, Satoru Fujishige, Tobias Harks, Rico Zenklusen

3 - Uniqueness of Equilibria in Atomic Splittable Congestion Games
Tobias Harks, Veerle Timmermanns

4 - Complexity and Approximation of the Continuous Network Design Problem
Max Klimm, Martin Gairing, Tobias Harks

---

**TB-10**
Thursday, 10:30-12:30 - HS 31

**Routing Methods I (c)**

Stream: Logistics and Transportation
Chair: Michael Schneider
1 - Map Partitioning for Accelerated Routing: Measuring Relation between Tiled and Routing Partitions
Maximilian Adam, Natalia Kliewer, Felix G. König

2 - Route minimization heuristic for the vehicle routing problem with multiple pauses
Alexey Khmelev

3 - Generating flexible sets of shifts for the days-off scheduling for road transportation
Bastian Stahlbuck

4 - Design of Granular Solution Methods for Routing Problems with Time Windows
Michael Schneider, Fabian Schwahn, Daniele Vigo

TB-11
Thursday, 10:30-12:30 - HS 32

Energy-efficient Mobility II
Stream: Logistics and Transportation
Chair: Uwe T. Zimmermann

1 - Railway disruption management
Twan Dollevoet

2 - Minimizing Total Energy Consumption in Operational Train Timetabling
Anja Hähle, Christoph Helmberg

3 - Optimizing the Power Load of Railway Timetables
Andreas Bärmann, Alexander Martin

TB-12
Thursday, 10:30-12:30 - HS 33

Railway Planning II (c)
Stream: Logistics and Transportation
Chair: Dennis Huisman

1 - Management of rolling stock on Indian Railways
Narayan Rangaraj, Raveendran Palaniyandi

2 - The Railway Delay Management Problem — An Overview
Eva König

3 - Robust Passenger Orientated Line Planning
Simon Bull, Jesper Larsen, Richard Lusby

TB-13
Thursday, 10:30-12:30 - HS 41

SC Structure (c)
Stream: Supply Chain Management
Chair: Jan Trockel

TB-14
Thursday, 10:30-12:30 - HS 42

Network Design I (i)
Stream: Graphs and Networks
Chair: Bernard Fortz

1 - Optimal design of switched Ethernet networks implementing the multiple spanning tree protocol
Martim Joyce-Moniz, Bernard Fortz, Luís Gouveia

2 - Modelling fiber/wireless access network planning
Axel Werner, Fabio D’Andreatigiovanni, Jonad Pulaj

3 - Cooperative Monitoring Problem in Presence of Traffic Uncertainty
Dimitri Papadimitriou, Bernard Fortz

TB-15
Thursday, 10:30-12:30 - HS 45

Applied Simulation
Stream: Simulation and Decision Support
Chair: Heinrich Kuhn

1 - Enriching scenario analysis with agent-based simulations for planning the prospective market introduction of a smart product
Christian Stummer, Lars Lüpke, Sabrina Backs, Markus Günther

2 - Multi-Agent-Simulation of the European Biomass-to-Energy Market
Beatriz Beyer, Jutta Geldermann

3 - Improving Emergency Medical Services (EMS) Performance with Ambulances Dispatching Simulation Models
Jiun-Yu Yu
4 - Patient and impatient pedestrians in a spatial game for egress congestion
   Harri Ehtamo, Anton von Schantz

3 - Strategic assessment of electric energy production technologies in Slovenia using qualitative multi-attribute and simulation methods
   Marko Bohanec, Nejc Trdin, Branko Kontic

4 - Enhancing environmental sustainability of healthcare system - A System Dynamics Approach
   Salman Shehab, Afshin Mansouri, Tillal Eldabi, Virginia Spiegler

---

TB-16

Public Sector OR and Drug Policy (c)

Stream: Policy Modelling and Public Sector OR
Chair: Carla Rossi

1 - Public R&D project selection problem with cancellations
   Sinan Gürel, Musa Çağlar

2 - Analysis of research collaborations in order to support research and innovation policies
   Baerbel Deisting

3 - Evaluating and modelling drug policy approaches on the basis of new criminal and health indicators.
   Carla Rossi

---

TB-17

Cooperative Games II (c)

Stream: Game Theory
Chair: Guvenc Sahin

1 - Determining Collusion Opportunities in Deregulated Electricity Markets
   Danial EsmaeiliAliabadi, Guvenc Sahin, Murat Kaya

2 - A monotonic and merge-proof rule in minimum cost spanning tree situations
   Gómez-Rúa María, Juan Vidal-Puga

3 - New characterizations of the Owen and Banzhaf-Owen values using the intracoalitional balanced contributions property
   Silvia Lorenzo-Freire

---

TB-18

Assessment and Valuation

Stream: Energy and Environment
Chair: Marko Bohanec

1 - Effects of Different Agricultural Land Valuation Methods on the LandConsolidation Projects
   Tayfun Cay, Mevlut Uyan

2 - Mapping of heating and cooling degree values by multivariate geostatistics
   I.Bulent Gundogdu

---

TB-19

Planning and Decision Support

Stream: Energy and Environment
Chair: Martin Densing

1 - GAMS — Elements, Enhancements, and Examples from the Austrian Power Industry
   Franz Nelissen, Wilhelm Ottendörfer, Thomas I. Maindl

2 - Two-stage heuristic approach for solving the long-term Unit Commitment Problem with hydro-thermal coordination
   Alexander Franz, Julia Rieck, Jürgen Zimmermann

3 - Optimal Control of a Battery Train Using Dynamic Programming
   Nima Ghaviha, Markus Bohlin, Erik Dahlquist, Fredrik Wallin

4 - Decision support system for intermodal freight transportation planning: an integrated view on transport emissions, cost and time sensitivity
   Andreas Rudi, Magnus Fröhling, Frank Schultmann

---

TB-20

Multistage Mixed Integer Stochastic Optimization (c)

Stream: Stochastic Optimization
Chair: Laureano Fernando Escudero

1 - Progressive Hedging and Dual Decomposition
   David Woodruff

2 - Assessing the Hydro Production Function modeling on Policies for the Hydrothermal Scheduling
   Vitor de Matos, Erlen Finardi, Paulo Vitor Larroyd, Guilherme Fredo

3 - On risk averse multistage mixed 0-1 optimization modeling under a mixture of Exogenous and Endogenous Uncertainty
   Laureano Fernando Escudero, Juan Francisco Monge, Dolores Romero Morales
4 - A bilevel programming problem with stochastic lower level
Rizo Saboiev, Stephan Dempe, Patrick Mehlitz

3 - The Impact of Linear Programming on the Performance of Branch-and-Cut based MIP Solvers
Matthias Miltenberger

4 - Gurobi - Improvements and New Features
Michael Winkler

---

**TB-21**

Thursday, 10:30-12:30 - ÜR Germanistik 2

**Advances in Stochastic Optimization II (i)**

Stream: Stochastic Optimization
Chair: Huifu Xu

1 - Data-driven Distributionally Robust Optimization Using the Wasserstein Metric
Daniel Kuhn

2 - Risk-Averse Two-Stage Stochastic Program with Distributional Ambiguity
Ruiwei Jiang, Yongpei Guan

3 - Sparse grid and QMC quadratures are efficient for linear two-stage stochastic programs
Werner Römisch

---

**TB-22**

Thursday, 10:30-12:30 - ÜR Germanistik 3

**Accounting (i)**

Stream: Accounting and Revenue Management
Chair: Michaela Schafthauer-Linzatti

1 - Do Equity Tax Shields Reduce the Leverage? The Austrian Case
Manfred Fruehwirth

2 - The application of a decision support system to calculate consequential costs of hand injuries
Michaela Schafthauer-Linzatti, Marion Rauner, Beate Mayer

3 - The interaction between Corporate Social Responsibility and Facility Management
Judith Löschl

---

**TB-23**

Thursday, 10:30-12:30 - ÜR Germanistik 4

**Recent Advances in MIP Solving**

Stream: Integer Programming
Chair: Michael Winkler

1 - LocalSolver: a mathematical optimization solver based on neighborhood search
Frédéric Gardi, Thierry Benoist, Julien Darlay, Bertrand Estellon, Romain Megel, Clément Pajean

2 - CPLEX keeps getting better
Roland Wunderling, Andrea Tramontani, Pierre Bonami

---

**TB-24**

Thursday, 10:30-12:30 - ÜR Germanistik 5

**Purchasing & Customer Data (c)**

Stream: Analytics
Chair: Matthias Reisser

1 - Topological Data Analysis for Extracting Hidden Features of Client Data
Klaus Bruno Schebesch, Ralf Stecking

2 - Clustering and Decision Tree Analysis of Airline Booking Data
Catherine Cleophas, Sebastian Vock, Laurie Ann Garrow

3 - Segmentation of Purchasing Sequences using Hidden Markov Models
Katerina Shapoval, Johannes Baldinger, Matthias Reisser

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**TB-25**

Thursday, 10:30-12:30 - ÜR Alte Geschichte

**Statistical Genetics and Bioinformatics**

Stream: Bioinformatics
Chair: Florian Frommlet

1 - Genome Wide Association Studies with Sorted L-one Penalized Estimation (SLOPE)
Malgorzata Bogdan

2 - Novel genetic matching methods to correct for confounding by population stratification in genome-wide association studies
André Lacour, Tim Becker

3 - IPO: a tool for automated optimization of XCMS parameters for metabolomics LC-HRMS data processing
Christoph Magnes

4 - Modelling and Analysis of High-throughput Data in Cancer Research and in Microbial Ecology
Antoine Buetti-Dinh

---

**TB-26**

Thursday, 10:30-12:30 - SR Geschichte 1

**Convex and Nonlinear Optimization**

Stream: Continuous Optimization
Chair: Pál Burai

1 - Solution methods for black-box optimization problems
Mirjam Duer, Christine Edman
2 - Duality-Based Algorithms for Solving the Problem of Locating a Semi-Obnoxious Facility
Andrea Wagner

3 - On the directional derivative of optimal value functions of nonsmooth convex problems
Robert Mohr

4 - Optimality conditions in unconstrained optimization
Pál Burai

■ TB-27
Thursday, 10:30-12:30 - SR Geschichte 2
Credit Risk (c)
Stream: Financial Modelling
Chair: Yuriy Kaniovskyi
1 - Asset sale, debt restructuring, and liquidation
Michi Nishihara, Takashi Shibata
2 - An Efficient Approach for Obtaining Markovian Credit Migration Matrices
Max Hughes, Ralf Werner
3 - Multivariate analysis of short and long-impact indicators for corporate bond market development
Ieva Astrauskaite
4 - Numerical modeling of dependent credit rating transitions with asynchronously moving industries
Yuriy Kaniovskyi, Georg Pfug, Dmitri Boreiko

■ TB-28
Thursday, 10:30-12:30 - HS 34
(c) Dynamic Games and Optimal Control
Stream: Control Theory
Chair: Reinhard Neck
1 - Differential Games with (A)symmetric Players and Heterogeneous Strategies
Benteng Zou
2 - Together we are strong - divided still better? Strategic aspects of a fiscal union
Reinhard Neck, Dmitri Blueschke

■ TB-29
Thursday, 10:30-12:30 - SR IÖGF
Group Decision Making and Negotiation (c)
Stream: Multiple Criteria Decision Making
Chair: Rudolf Vetschera
1 - A New Hybrid Decision Making Model for Tourism Destination Selection
Erdem Aksakal, Metin Dagdeviren

2 - Prioritization of University Choice Dimensions using Fuzzy DEMATEL
Raja Rub Nawaz, Sajjida Reza

3 - A systemic approach to supporting the ill-structured negotiation problems
Jerry Michnik

■ TB-31
Thursday, 10:30-12:30 - Marietta Blau Saal
Decision Support in Disaster Management
Stream: Health and Disaster Aid
Chair: Marion Rauner
1 - Network Design to Anticipate Selfish Evacuation Routing
Kerstin Seekircher, Alf Kimms
2 - Pre-disaster planning of retrofitting, response and recovery decisions
Alper Döyen, Yasemin Arda
3 - Decision support for health care emergency management: interlinking emergency interventions, responders, and equipment/materials
Marion Rauner, Helmut Niessner, Lisa Sasse, Kristina Tomic
4 - Integrating delivery time assessment in disaster relief decision support
Christian Wankmüller, Gerald Reiner, Nathan Kunz, Thomas Wurzer
TC-02  Thursday, 14:00-15:30  -  HS 7
Scheduling in Logistics (i)
Stream: Scheduling and Project Management
Chair: Jenny Nossack
1 - A dynamic programming approach for the aircraft scheduling problem with general airport runway configurations
   Alexander Lieder, Raik Stolletz
2 - The Windy Rural Postman Problem with a Time-Dependent Zigzag Option
   Jenny Nossack, Bruce Golden, Erwin Pesch, Rui Zhang

TC-03  Thursday, 14:00-15:30  -  HS 16
Sequencing in Production Planning and Logistics (i)
Stream: Scheduling and Project Management
Chair: Dirk Briskorn
1 - Synchronous flow shop problems with dominating machines
   Sigrid Knust, Stefan Waldherr
2 - Loading parallel stacks to minimize the number of blockages
   Simon Emde, Nils Boysen
3 - Finding optimal schedules for inland shipping
   Stefan Bock

TC-04  Thursday, 14:00-15:30  -  HS 21
Cutting and packing problems (c)
Stream: Discrete Optimization
Chair: Torsten Buchwald
1 - LP-based Relaxations of the Skiving Stock Problem
   John Martinovic, Guntram Scheithauer
2 - Using contiguous, 2D feasible 1D cutting patterns for the 2D rectangular strip packing problem
   Isabel Friedow, Guntram Scheithauer
3 - Creating worst-case Instances for upper and lower Bounds of the two-dimensional Strip Packing Problem
   Torsten Buchwald, Guntram Scheithauer

TC-05  Thursday, 14:00-15:30  -  HS 23
Lotsizing and Inventory Management II
Stream: Production and Operations Management
Chair: Christian Almeder
1 - Monolithic Models for Production Planning - beneficial or not?
   Tom Vogel, Bernardo Almada-Lobo, Christian Almeder
2 - Online Algorithms for the Newsvendor Problem
   Esther Mohr
3 - Price and Quantity Optimization in the Risk-sensitive Newsvendor Problem with Isoelastic Demand
   Javier Rubio-Herrero, Melike Baykal-Gursoy

TC-06  Thursday, 14:00-15:30  -  HS 24
Metaheuristics III (c)
Stream: Metaheuristics
Chair: Ivan Davydov
1 - Two-dimensional nesting problem: A new approach to genetic algorithm
   Mehmet Hacibeyoglu, Mohammed Ibrahim
2 - On Solving The Power Generalized Extreme Value Distribution By Using The Metaheuristic Algorithm — A Case Study Of Flood Data.
   Seyyed Hassan Taheri, Ali Saeb
3 - Tabu search heuristic for the competitive base stations location problem
   Ivan Davydov

TC-07  Thursday, 14:00-15:30  -  HS 26
Fixed-parameter-tractable and online algorithms (c)
Stream: Discrete Optimization
Chair: R. Hildenbrandt
1 - Parameterized Complexity of Multi-Portfolio Capital Budgeting Problems
   Frank Gurski, Jochen Rethmann, Eda Yilmaz
2 - Fixed-Parameter Tractability of Change-Making Problems
   Steffen Goebbels, Frank Gurski, Jochen Rethmann, Eda Yilmaz
3 - An operations research problem for conversions of machines modelled as a k-server problem
   R. Hildenbrandt

TC-08  Thursday, 14:00-15:30  -  HS 27
Computational and Experimental Economics
Stream: Computational and Experimental Economics
Chair: Ulrike Leopold-Wildburger
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<thead>
<tr>
<th>TC-09</th>
<th>Thursday, 14:00-15:30 - HS 30</th>
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<tbody>
<tr>
<td><strong>Scheduling and games</strong></td>
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<tr>
<td>Stream: Game Theory</td>
<td>Chair: Rob van Stee</td>
</tr>
<tr>
<td>1 - Vector scheduling and packing games</td>
<td>Leah Epstein, Elena Kleiman</td>
</tr>
<tr>
<td>2 - Minimization load balancing scheduling problems: a unified approach for designing EPTASs</td>
<td>Asaf Levin, Ishai Kones</td>
</tr>
<tr>
<td>3 - Coordinating Selfish Players in Multi-Job Scheduling Games</td>
<td>Fidaa Abed, José Correa, Chien-Chung Huang</td>
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<th>TC-10</th>
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<tr>
<td><strong>Routing Methods II (c)</strong></td>
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<tr>
<td>Stream: Logistics and Transportation</td>
<td>Chair: Karl Doerner</td>
</tr>
<tr>
<td>1 - Investigations on network flow-based mathematical models for vehicle scheduling and vehicle routing with deliveries and pickups and loading constraints</td>
<td>Taieb Mellouli</td>
</tr>
<tr>
<td>2 - Optimization Approaches for Recreational Bicycle Tour Planning</td>
<td>Benedikt Klocker, Günther Raidl, Matthias Prandtstetter</td>
</tr>
<tr>
<td>3 - The Lateral Transhipment Problem for A Priori Routes and Piecewise Linear Profits</td>
<td>Martin Romauch, Richard Hartl, Thibaut Vidal</td>
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<th>TC-11</th>
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<tr>
<td><strong>Energy-efficient Mobility III</strong></td>
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<tr>
<td>Stream: Logistics and Transportation</td>
<td>Chair: Christoph Helmberg</td>
</tr>
<tr>
<td>1 - Energy Efficient Freight Train Composition and Scheduling</td>
<td>Frederik Fiand, Uwe T. Zimmermann</td>
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<tr>
<th>TC-12</th>
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<tr>
<td><strong>Railway Scheduling (c)</strong></td>
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<tr>
<td>Stream: Logistics and Transportation</td>
<td>Chair: Kirsten Hoffmann</td>
</tr>
<tr>
<td>1 - Optimization of railway timetable by allocation of extra time supplements</td>
<td>Takayuki Shina, Susumu Morito, Jun Imaizumi</td>
</tr>
<tr>
<td>2 - Models for Train Timetabling Problems with Configuration Based Ordering Constraints</td>
<td>Frank Fischer</td>
</tr>
<tr>
<td>3 - A hybrid solution approach for railway crew scheduling problems with attendance rates</td>
<td>Kirsten Hoffmann</td>
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<tr>
<th>TC-13</th>
<th>Thursday, 14:00-15:30 - HS 41</th>
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<tbody>
<tr>
<td><strong>Hierarchical Demand Fulfillment (i)</strong></td>
<td></td>
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<tr>
<td>Stream: Supply Chain Management</td>
<td>Chair: Herbert Meyr</td>
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<tr>
<td>1 - Multi-period Deterministic Hierarchical Demand Fulfillment</td>
<td>Jaime Cano Belmán, Herbert Meyr</td>
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<td>2 - Managing Scarce Supply in Customer Hierarchies with Service Level Agreements</td>
<td>Konstantin Kloos</td>
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<td>3 - Profit-maximizing stochastic demand fulfillment in customer hierarchies</td>
<td>Maryam Nouri Roozbahani, Moritz Fleischmann</td>
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<th>TC-14</th>
<th>Thursday, 14:00-15:30 - HS 42</th>
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<td><strong>Network Design II</strong></td>
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<tr>
<td>Stream: Graphs and Networks</td>
<td>Chair: Markus Leitner</td>
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<tr>
<td>1 - Optimal Design of Shared Networks: From Bioinformatics to Telecommunications.</td>
<td>Martin Luipersbeck, Eduardo Alvarez-Miranda, Ivana Ljubic, Markus Sinnl</td>
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</table>
2 - Nature Reserve Design with Connectivity and Buffer Requirements  
Markus Sinnl, Eduardo Álvarez-Miranda, Ivana Ljubic

3 - Integer Programming Formulations for Survivable Hop Constrained Network Design  
Markus Leitner, Luís Gouveia, Ivana Ljubic

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**TC-16**  
**Thursday, 14:00-15:30 - HS 46**  
**OR and Public Health**  
Stream: Policy Modelling and Public Sector OR  
Chair: Doris Behrens

1 - Two approaches to cooperative covering location problem and its application to ambulance deployment  
Hozumi Morohosi, Takehiro Furuta

2 - Modelling policies for healthcare workforce management using system dynamics: alleviating the Canadian rural care gap  
Jennifer Morgan, Anna Graber

3 - Using Systems Thinking to Model Health and Social Care  
Doris Behrens, Jennifer Morgan

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**TC-17**  
**Thursday, 14:00-15:30 - HS 47**  
**Optimization and Games (c)**  
Stream: Game Theory  
Chair: Jasper de Jong

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**TC-15**  
**Thursday, 14:00-15:30 - HS 45**  
**Simulation in Aeronautics and Transportation**  
Stream: Simulation and Decision Support  
Chair: Dirk Christian Mattfeld

1 - Scheduling trucks with blocking constraints in a tank terminal  
Evert-Jan Jacobs, Jannes Verstichel, Tony Wauters, Greet Vanden Berghe

2 - Modeling Airline Activity in Staged Queues for Airport Capacity Planning  
L. Douglas Smith, Jan Fabian Ehmke, Dirk Christian Mattfeld

3 - Development of a consistent approach for inventory control of Unit Load Devices (ULD) in international air transportation  
Stephan Baetikofe, Christoph Hofer
OR 2015 - Vienna

3 - Optimal Value of a Firm Investing in Exogenous Technology
Pedro Pólvora, Cláudia Nunes, Manuel Guerra

■ TC-21
Thursday, 14:00-15:30 - �收受Germanistik 2
Multistage Stochastic Optimization (i)
Stream: Stochastic Optimization
Chair: Alois Pichler
1 - Existence of Nash equilibrium for Chance Constrained Games
Abdel Lisser
2 - Monotonic Bounds and approximation in multistage stochastic programs
Francesca Maggioni, Georg Pflug
3 - Scenario Trees based on sample paths observed
Alois Pichler

■ TC-22
Thursday, 14:00-15:30 - ōberGermanistik 3
Simulation and Managerial Accounting (i)
Stream: Accounting and Revenue Management
Chair: Stephan Leitner
1 - A dynamic model for cost cash flow at risk
Luca Gentili, Dario Girardi, Martino Grasselli, Bruno Giacomello
2 - Transfer pricing — heterogeneous agents and learning effects
Arno Karrer
3 - Interaction Effects of Different Data Quality Categories in Managerial Decision Making
Peter Letmathe, Benjamin von Eicken

■ TC-23
Thursday, 14:00-15:30 - ŏberGermanistik 4
Vehicle Routing and Hypergraph Separation (c)
Stream: Integer Programming
Chair: Michael Bastubbe
1 - On the formulation of subtour elimination constraints
Bolor Jargalsaikhan, Kees Jan Roodbergen
2 - The vehicle routing problem with multiple deliverymen: exact and hybrid approaches
Pedro Munari, Aldair Alvarez, Reinaldo Morabito
3 - A Branch-and-Price Algorithm for the Capacitated Hypergraph Vertex Separator Problem
Michael Bastubbe, Martin Bergner, Alberto Ceselli, Marco Lübbecke

■ TC-24
Thursday, 14:00-15:30 - ŏberGermanistik 5
Revenue Management Applications (i)
Stream: Accounting and Revenue Management
Chair: Jochen Gönsch
1 - Demand-oriented integrated scheduling for point-to-point carriers
Jochen Gönsch, Oliver Faust, Robert Klein
2 - A Revenue Management Approach for the Process Industry
Johannes Fichtinger, Andreas Mild, Michael Schuh

■ TC-25
Thursday, 14:00-15:30 - ŏberAlte Geschichte
Fuzzy Expert Systems
Stream: Neural Networks and Fuzzy Systems
Chair: Thomas Spengler
1 - Interpretability vs. Predictability with Neural Networks
Ralph Grothmann, Hans Georg Zimmermann
2 - Deeper insights in the use of a fuzzificated Datar-Mathews approach
André Mangelsdorf, Thomas Spengler
3 - Fuzzy Logik basierte Asset Allocation
Reiner North

■ TC-26
Thursday, 14:00-15:30 - SR Geschichte 1
Nonsmooth Convex Optimization
Stream: Continuous Optimization
Chair: Radu Ioan Bot
1 - An accelerated optimal first-order method for large-scale convex optimization
Masoud Ahookhosh
2 - Regularizing inverse problems by alternating direction method of multipliers
Qinian Jin
3 - A forward-backward-forward differential equation and its asymptotic properties
   Sebastian Banert, Radu Ioan Bot

[TC-27]
Thursday, 14:00-15:30 - SR Geschichte 2

Financial Modelling
Stream: Financial Modelling
Chair: Alex Weissensteiner

1 - Where would the EUR/CHF exchange rate be without the SNB’s minimum exchange rate policy?
   Michael Hanke, Rolf Poulsen, Alex Weissensteiner

2 - Currency Pegs: Cases For Baskets
   Rolf Poulsen

3 - Analyzing the Swiss National Bank’s euro exchange rate policy: A latent likelihood approach
   Alex Weissensteiner, Rolf Poulsen, Michael Hanke

[TC-28]
Thursday, 14:00-15:30 - HS 34

(c) Population Control and Epidemiology
Stream: Control Theory
Chair: Markus Thäter

1 - Bicriteria Optimal Control
   David Willems, Karunia Putra Wijaya, Thomas Götz, Stefan Ruzika

2 - Optimal control for a harmful population model
   Narcisa Apreutesei

3 - Optimal vaccination strategies for an improved SEIR model
   Markus Thäter, Kurt Chudej, Hans Josef Pesch

[TC-29]
Thursday, 14:00-15:30 - SR IÖGF

Group Decision Making and Preference Modeling (c)
Stream: Multiple Criteria Decision Making
Chair: Tomasz Wachowicz

1 - A new preference voting method using complementary slackness condition and discriminant analysis for solving multiple criteria decision making problem
   Mohammad Izadikhah

2 - Plant Location Selection With Utility Range Based Interactive Group Decision Making Method
   Halil Şen, Hüseyin Fidan

3 - MARS — a hybrid approach for holistic analysis of MCDM problem
   Tomasz Wachowicz, Ewa Roszkowska, Dorota Górecka

[TC-31]
Thursday, 14:00-15:30 - Marietta Blau Saal

Humanitarian Logistics
Stream: Health and Disaster Aid
Chair: Lena Silbermayr
Chair: Gerald Reiner

1 - Funds Allocation in NPOs: The Role of Administrative Cost Ratios
   Tina Wakolbinger, Christian Burkart, Fuminori Toyasaki, Michael Fearon

2 - Decision-support for coordinated last-mile distribution during disasters
   Christian Fikar, Manfred Gronalt, Patrick Hirsch

3 - Disaster Relief Inventory Management: Horizontal Cooperation between Humanitarian Organizations
   Lena Silbermayr, Fuminori Toyasaki, Emel Arikan, Ioanna Falagaras Sigala
Thursday, 16:00-16:45

■ TD-04  
Thursday, 16:00-16:45 - HS 21  
Semi-plenary: Prekopa  
Stream: Semi plenaries I  
Chair: Georg Pflug  

1 - Moment Problems: Important Source of Ideas in Optimization  
Andras Prekopa

■ TD-13  
Thursday, 16:00-16:45 - HS 41  
Semi-plenary: Huisman  
Stream: Semi plenaries II  
Chair: Alf Kimms  

1 - Developments and Experiments in Crew Rescheduling at Netherlands Railways  
Dennis Huisman

■ TD-17  
Thursday, 16:00-16:45 - HS 47  
GOR science award  
Stream: Semi plenaries IV  
Chair: Leena Suhl

■ TD-19  
Thursday, 16:00-16:45 - HS 50  
Semi-plenary: Brandeau  
Stream: Semi plenaries III  
Chair: Marion Rauner  

1 - Optimization and Disease Control: Investment in Public Health Interventions  
Margaret L. Brandeau
Friday, 8:30-10:00

**FA-02**
Friday, 8:30-10:00 - HS 7

Proactive/Reactive Project Scheduling (i)
Stream: Scheduling and Project Management
Chair: Erik Demeulemeester

1 - An exact algorithm for the chance-constrained resource-constrained project scheduling problem
Patricio Lamas, Erik Demeulemeester

2 - An iterative method to solve stochastic resource-constrained project scheduling problem
Morteza Davari, Stefan Creemers, Erik Demeulemeester

3 - A sequential bidding model for public-private partnerships: theory versus laboratory
Dennis De Clerck, Erik Demeulemeester

**FA-03**
Friday, 8:30-10:00 - HS 16

Operations Management and Scheduling (c)
Stream: Scheduling and Project Management
Chair: Seyda Topaloglu

1 - A multi-objective Cat Swarm optimization for workflow scheduling based on energy-aware in cloud computing environment
Khalel Sellami, Pierre F Tiako

2 - An Adaptive Local Search Algorithm for Tour Scheduling Problem with Start-time Bands
Mustafa Avci, Seyda Topaloglu

3 - The quay crane scheduling problem: an exact solution approach
Ali Diabat

**FA-04**
Friday, 8:30-10:00 - HS 21

Routing and network design problems (c)
Stream: Discrete Optimization
Chair: Frank Meisel

1 - The Active-Passive Vehicle-Routing Problem, Part I: Solution by Column Generation
Christian Tilk, Nicola Bianchessi, Michael Drexl, Stefan Irnich, Frank Meisel

2 - The Active-Passive Vehicle-Routing Problem, Part II: Comparison of Column-Generation Subproblem Solvers
Stefan Irnich, Nicola Bianchessi, Michael Drexl, Frank Meisel, Christian Tilk

3 - Branch-and-Price-and-Cut for a Service Network Design and Hub Location Problem
Ann-Kathrin Rothenbächer, Michael Drexl, Stefan Irnich

**FA-05**
Friday, 8:30-10:00 - HS 23

Assembly lines
Stream: Production and Operations Management
Chair: Heinrich Kuhn

1 - An Alternative MILP Model for Makespan Minimization on Assembly Lines
Sel Ozcan, Deniz Türsel Elıiyi, Levent Kandılr

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

3 - Level Scheduling in Automotive Assembly Lines and its Real Effect on In-House Logistics Costs
Heinrich Kuhn, Dominik Wörner

**FA-06**
Friday, 8:30-10:00 - HS 24

Remanufacturing I
Stream: Production and Operations Management
Chair: Maria Mavri

1 - How many times to remanufacture in a Schrady-type reverse logistics model
Imre Dobos, Grigory Pishchulov

2 - An Optimal Piecewise-linear Programming Model for Stochastic Disassembly Line Balancing Problem
F. Tevhide Altekin

3 - Additive Manufacturing versus Classic Manufacturing?
Maria Mavri

**FA-07**
Friday, 8:30-10:00 - HS 26

Cooperation and Coordination in Transport (c)
Stream: Logistics and Transportation
Chair: Mario Ziebuhr
Chair: Kristian Schopka

1 - Collaborative Transportation Planning with Forwarding Limitations
Mario Ziebuhr, Herbert Kopfer

2 - Cost allocations for horizontal carrier coalitions by approximating the Shapley value
Kristian Schopka, Herbert Kopfer
3 - Loading dock coordination by core-selecting package auctions
Paul Karänke, Martin Bichler, Stefan Minner

■ FA-09
Friday, 8:30-10:00 - HS 30
Voting, Tournament and Inspection Games (c)
Stream: Game Theory
Chair: Jochen Schlapp
1 - Representation Compatible Power Indices
Serguei Kaniovski, Sascha Kurz
2 - The effects of trust variations on inspection procedures
Günter Fandel, Jan Trockel
3 - Feedback in Innovation Tournaments
Jochen Schlapp

■ FA-10
Friday, 8:30-10:00 - HS 31
Multi-Compartment Vehicle Routing (c)
Stream: Logistics and Transportation
Chair: Alexander Hübner
1 - A Branch-and-Price Algorithm for The Multi-Compartment Vehicle Routing Problem
Samira Mirzaei
2 - A multi-compartment vehicle routing problem for livestock feed distribution
Levent Kandiller, Bahar Turan, Deniz Türsel Eliyyi
3 - Food distribution with multi-compartment trucks: An extended vehicle routing problem
Alexander Hübner, Manuel Ostermeier

■ FA-11
Friday, 8:30-10:00 - HS 32
Facility location (c)
Stream: Logistics and Transportation
Chair: Luca Maria Gambardella
1 - Rectilinear distance to a facility in the presence of a square barrier
Masashi Miyagawa

2 - ALGORITHMIC VARIATIONS FOR WEIGHTED p-MEDIAN PROBLEM
Vladimir Medvid

■ FA-12
Friday, 8:30-10:00 - HS 33
Transport in the health care sector
Stream: Logistics and Transportation
Chair: Patrick Hirsch
1 - Scheduling of urban home health care services during daily business and in times of disasters
Klaus-Dieter Rest, Patrick Hirsch
2 - Continuity between planning periods in the home health care problem
Daniela Lüers, Leena Suhl
3 - Sustainability criteria for home care staff mobility
Jana Voegl, Patrick Hirsch

■ FA-13
Friday, 8:30-10:00 - HS 41
Inventory Control (c)
Stream: Supply Chain Management
Chair: Marc Reimann
1 - A Multi-Objective Differential Evolution Algorithm to Determine Inventory Replenishment Parameters in a Supply Chain
Mualla Gonca Yunusoglu, Hasan Selim
2 - Multi-Item Two-Echelon Spare Parts Inventory Control Problem with Batch Ordering in the Central Warehouse under Compound Poisson Demand
Z. Pelin Bayindir, Engin Topan
3 - Simulated annealing for optimization of a two-stage inventory system with transshipments
Andreas Serin, Bernd Hillebrand

■ FA-14
Friday, 8:30-10:00 - HS 42
Applied Network Optimization (c)
Stream: Graphs and Networks
Chair: Roberto Montemanni
1 - Solving Evacuation Problems in Polynomial Space - Earliest Arrival Flows with Multiple Sources
Miriam Schlöter, Martin Skutella
2 - Fast Prize-collecting Steiner tree heuristics for genomics application: a comparison
Roberto Montemanni, Murodzhon Akhmedov, Ivo Kwee
3 - Network Design with Consolidation Facilities for an Air Cargo Company
Guvenc Sahin, Görkem Yençak, Birol Yucceoglu

3 - Dynamic multi-product lot-sizing problem under uncertainty
Svenja Lagershausen, Stefan Helber

FA-15
Friday, 8:30-10:00 - HS 45

General topics in decision support
Stream: Simulation and Decision Support
Chair: Kei Takahashi

1 - Exploring suitability of Combinatorial Auction mechanism for Government securities in India
Anup Sen, Rohit Bhirud, Amit Kumar Sahoo

2 - How to achieve conversion: modelling individual behavior in multiple online advertising with psychological effects
Kai Sakou, Kei Takahashi

FA-16
Friday, 8:30-10:00 - HS 46

Policy Evaluation using Data Envelopment Analysis
Stream: Policy Modelling and Public Sector OR
Chair: Mikulas Luptacik

1 - Data Envelopment Analysis for Measuring of Economic Growth in Terms of Welfare Beyond GDP
Eduard Nezinský, Martin Labaj, Mikulas Luptacik

2 - Determining drivers of eco-efficiency: decomposition method
Eduard Nezinský

FA-17
Friday, 8:30-10:00 - HS 47

Lotsizing (c)
Stream: Supply Chain Management
Chair: Stefan Helber

1 - A quasi-fixed Cyclic Production Scheme for the Synchronized and Integrated Two-Stage Lot Sizing and Scheduling Problem with Stochastic Demand
Philipp Zeise, Dirk Briskorn

2 - Benders Decomposition Applied to Cooperative Lot-Sizing
Andreas Elias, Alf Kimms

FA-18
Friday, 8:30-10:00 - HS 48

(c) Climate and Environmental Issues
Stream: Energy and Environment
Chair: David Bunch

1 - The influencing factors on carbon leakage rates of unilateral climate policy - a meta-analysis
Marlene Sayer

2 - Environmental economic consideration of building renovations
Susanne Lind-Braucher, Robert Hermann

3 - COCHIN-TIMES: Integration of Vehicle Consumer Choice in TIMES Model and its Implications for Climate Policy Analysis
David Bunch

FA-19
Friday, 8:30-10:00 - HS 50

Data Envelopment Analysis in Energy Economics
Stream: Energy and Environment
Chair: Bernhard Mahlberg

1 - Carbon-decreasing Developments Among New Competitors: Gas- and Coal-Fired Power Plants in the US Electricity Sector
Heike Wetzel

2 - The Direct Costs and Benefits of US Electric Utility Divestitures
Thomas Trieb

3 - Analyzing Efficiency of biogas plants in Austria using Data Envelopment Analysis
Andreas Eder, Bernhard Mahlberg

FA-22
Friday, 8:30-10:00 -ÜR Germanistik 3

Revenue Management (c)
Stream: Accounting and Revenue Management
Chair: Johannes Kolb

1 - Least squares approximate policy iteration for choice-based revenue management
Sebastian Koch

2 - A DLP formulation considering intertemporal customer behavior
Korel Celepsoy, Johannes Kolb
3 - Capacity control with macro periods  
Maximilian Herz, Sebastian Koch, Johannes Kolb

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**FA-23**  
Friday, 8:30-10:00 - ÜR Germanistik 4  

**Theory of Integer Programming (c)**
Stream: Integer Programming  
Chair: Oliver Stein

1 - Vector space decomposition for linear programming  
Marco Lübbecke, Jean-Bertrand Gauthier, Jacques Desrosiers

2 - The bound function approach for solving nonlinear mixed-integer problems  
Sönke Behrends, Anita Schöbel

3 - Error bounds for nonlinear granular optimization problems  
Oliver Stein

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**FA-24**  
Friday, 8:30-10:00 - ÜR Germanistik 5  

**Energy & Renewables (c)**
Stream: Analytics  
Chair: Alexander Schuller  
Chair: Philipp Stroehle  
Chair: Christoph Flath

1 - Price-based Composition and Coordination of Demand Response Groups  
Nikolai Stein, Christoph Flath

2 - Impact of User Dependent Charging Strategies on Electric Vehicle Battery Degradation  
Jennifer Schoch, Johannes Gärttner, Alexander Schuller

3 - The Science of Data-Driven Prediction  
Ralph Grothmann, Hans Georg Zimmermann

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**FA-27**  
Friday, 8:30-10:00 - SR Geschichte 2  

**Portfolio Optimization II (c)**
Stream: Financial Modelling  
Chair: Fabio Bellini

1 - Tracking the 1/N Portfolio  
Oliver Strub, Norbert Trautmann

2 - Portfolio Optimization with Expectiles  
Fabio Bellini, Christian Colombo, Mustafa Pinar

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**FA-30**  
Friday, 8:30-10:00 - Visitor Center  

**Stochastic Programming in Energy and Environment (i)**
Stream: Stochastic Optimization  
Chair: Steffen Rebennack

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1 - Groebner Bases and Nomination Validation in Gas Networks with Random Load  
Sabrina Nitsche, Rüdiger Schultz

2 - Risk Calculation of Pesticide Residues in Fish Diet  
Judith Klein, Christian Schlechtcriem, Rüdiger Schultz

3 - A Framework for Stochastic Optimization with Distributional Ambiguity  
Steffen Rebennack

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**FA-31**  
Friday, 8:30-10:00 - Marietta Blau Saal  

**Performance Measurement in Health Care**
Stream: Health and Disaster Aid  
Chair: Christine Burggraf

1 - Shifting risks from the payor to the provider: a financial problem for swiss drg?  
Philipe Widmer

2 - The interplay between regulation and efficiency: Evidence from the Austrian inpatient hospital sector  
Margit Sommersguter-Reichmann, Adolf Stepan

3 - Nutrition related chronic diseases and the optimal demand for dietary quality  
Christine Burggraf, Ramona Teuber, Thomas Glauben
Friday, 10:30-11:15

**FB-04**
Friday, 10:30-11:15 - HS 21

**Semi-plenary: Ruiz Garcia**
Stream: Semi plenaries I
Chair: Norbert Trautmann

1 - Scheduling with simple Iterated Greedy Algorithms
Ruben Ruiz

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**FB-13**
Friday, 10:30-11:15 - HS 41

**Semi-plenary: Minner**
Stream: Semi plenaries II
Chair: Karl Doerner

1 - Data-driven inventory management — recent advances and research challenges
Stefan Minner

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**FB-17**
Friday, 10:30-11:15 - HS 47

**Semi-plenary: Möller**
Stream: Semi plenaries IV
Chair: Andreas Fink

1 - Visual data science – Advancing science through visual reasoning
Torsten Möller

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**FB-19**
Friday, 10:30-11:15 - HS 50

**Semi-plenary: Wozabal**
Stream: Semi plenaries III
Chair: Marco Laumanns

1 - Diminishing the Curse of Dimensionality: Decomposition Methods for Markov Decision Processes
David Wozabal

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Friday, 11:30-13:00

**FC-02**
Friday, 11:30-13:00 - HS 7

**Novel Approaches in Scheduling (i)**
Stream: Scheduling and Project Management
Chair: Ulrich Pferschy

1 - Variability Aspects in Scheduling Systems
Kathrin Benkel, Kurt Jörnsten, Rainer Leisten

2 - Personnel Planning with Structured Qualifications
Ulrich Pferschy, Tobias Kreiter, Joachim Schauer

3 - Job Shop Scheduling with Full Lot Streaming
John J. Kanet, Christian Gahm

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**FC-04**
Friday, 11:30-13:00 - HS 21

**Robust optimization and applications (c)**
Stream: Discrete Optimization
Chair: Matthias Garbs

1 - Pre-Tactical Planning of Runway Utilization using Robust and Stochastic Optimization
Manu Kapolke, Andreas Heidt, Frauke Liers, Alexander Martin

2 - Light and Recoverable Robustness for Runway Schedules in Air Traffic Management
Andreas Heidt, Hartmut Helmke, Manu Kapolke, Frauke Liers, Alexander Martin

3 - Uncertain bottleneck problems in the cascade utilization of biomass
Matthias Garbs, Jutta Geldermann

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**FC-05**
Friday, 11:30-13:00 - HS 23

**Cutting and Packing**
Stream: Production and Operations Management
Chair: Günther Raidl

1 - Logic-based Benders Decomposition for the 3-staged Strip Packing Problem
Johannes Maschler, Günther Raidl

2 - A Scalable Heuristic for the Two-Dimensional K-staged Cutting Stock Problem
Frederico Dusberger, Günther Raidl
3 - Robotic Cell Scheduling under Uncertainty
   Daniel Tonke

FC-06
Friday, 11:30-13:00 - HS 24

Remanufacturing II
Stream: Production and Operations Management
Chair: Dirk Sackmann
1 - Remanufacturing as a Competitive Strategy
   Subrata Mitra
2 - Neighborhoods in re-entrant permutation flow shop scheduling problems
   Richard Hinze, Dirk Sackmann

FC-09
Friday, 11:30-13:00 - HS 30

Noncooperative Games (c)
Stream: Game Theory
Chair: Josef Hofbauer
1 - Nash equilibria in a Downsian competition with costs
   Mark Van Lokeren
2 - Analyzing Complex Infinitely Repeated Games with Methods from Evolutionary Game Theory
   Matthias Feldotto, Alexander Skopalik

FC-11
Friday, 11:30-13:00 - HS 32

Transportation Networks and Locations (c)
Stream: Logistics and Transportation
Chair: Teresa Melo
1 - Hub location problems with thresholds on flows
   H.a. Eiselt, Armin Lier-Vilagrala, Vladimir Marianov
2 - A new approach for a location routing problem with pick-up and delivery including the home delivery services for food products
   Christian Franz, Rainer Leisten
3 - Multi-period capacitated facility location under delayed demand satisfaction
   Teresa Melo, Isabel Correia

FC-12
Friday, 11:30-13:00 - HS 33

Relocation and Repositioning Problems in Maritime Transport (c)
Stream: Logistics and Transportation
Chair: Daniel Mueller
1 - A Biased Random-Key Genetic Algorithm for the Container Pre-Marshalling Problem
   Kevin Tierney, André Hottung
2 - Tabu Search Based Heuristic Approaches for the Dynamic Container Relocation Problem
   Osman Karpuzoğlu, Mehmet Hakan Akyüz, Temel Öncan
3 - Data Visualization and Decision Support for the Fleet Repositioning Problem
   Daniel Mueller, Kevin Tierney

FC-14
Friday, 11:30-13:00 - HS 42

Cliques and Independent sets (c)
Stream: Graphs and Networks
Chair: Timo Gschwind
1 - On Critical Independent Sets in Bipartite Graphs
   Eugen Mandrescu, Vadim Levit
2 - Partitioning and Covering a Graph with Relaxed Cliques
   Timo Gschwind, Fabio Furini, Stefan Irnich, Roberto Wolfler-Calvo

FC-17
Friday, 11:30-13:00 - HS 47

Games and Applications (c)
Stream: Game Theory
Chair: Gustavo Bergantinos
1 - A Stackelberg Equilibrium in Leader-Follower Hub Location and Pricing Problem
   Dimitrije Ćvokić, Yury Kochetov, Alexander Plyasunov
2 - Loss allocation in energy transmission networks
   Gustavo Bergantinos, Julio González-Díaz, Ángel Manuel González Rueda, María P. Fernández de Córdoba

FC-18
Friday, 11:30-13:00 - HS 48

(c) Renewables
Stream: Energy and Environment
Chair: Irena Milstein
1 - An Algorithm for Renewable Energy Trading with a Fleet of Plug-In Electric Vehicles
   Nicole Tähter, Robert Enstriken, Yinyu Ye
2 - Optimized market-oriented operation of renewable energy sources combined with energy storage
Michael Hassler, Jochen Gönsch

3 - Optimal Generation Mix in the Present of Renewable Technologies
Irena Milstein, Asher Tishler

FC-19
Friday, 11:30-13:00 - HS 50
(c) Fossil Fuels
Stream: Energy and Environment
Chair: Raimund Kovacevic

1 - MODAL GasLab - Optimization Approaches of Real World Problems in the Gas Transport Industry
Felix Simon, Inken Gamrath, Kai Hennig, Thorsten Koch, Janina Körper, Ralf Lenz

2 - Practical Application of a Worldwide Gas Market Model at Stadtwerke München
Maik Günther

FC-22
Friday, 11:30-13:00 - ÜR Germanistik 3
Pricing Management (c)
Stream: Accounting and Revenue Management
Chair: Claudius Steinhardt

1 - When Does Better Quality Imply More Advertising?
Régis Chenavaz

2 - What can we learn from Price volatility of Revenue-Managed Goods? Evidence from the airline industry
Benny Mantin, Eran Rubin

3 - Optimal product line pricing in the presence of budget-constrained consumers
Claudius Steinhardt, Stefan Mayer

FC-23
Friday, 11:30-13:00 - ÜR Germanistik 4
Applications of Integer Programming (c)
Stream: Integer Programming
Chair: Armin Fügenschuh

1 - Solving A Challenging Timetabling Problem at Engineering Faculty of Necmettin Erbakan University
Kemal Alaykiran

2 - Mathematical Optimization of a Magnetic Ruler Layout With Rotated Pole Boundaries
Marzene Fügenschuh, Armin Fügenschuh, Marina Ludszuweit, Aleksandar Mojsic, Joanna Sokol

FC-24
Friday, 11:30-13:00 - ÜR Germanistik 5
Failure Analysis (c)
Stream: Analytics
Chair: Felix Richter

1 - Data Quality Confidence Bounds
Ralf Gitzel, Simone Turrin, Sylvia Maczey

2 - Automatic Root Cause Analysis by Integrating Heterogeneous Data Sources
Felix Richter, Tetiana Zinchenko, Dirk Christian Mattfeld

FC-31
Friday, 11:30-13:00 - Marietta Blau Saal
Health Care Process Management
Stream: Health and Disaster Aid
Chair: Margit Sommersguter-Reichmann

1 - Physician shift scheduling with flexible shift extensions
Andreas Fügener, Jens Brunner

2 - Time-dependent ambulance deployment and shift scheduling of crews
Lara Wiesche

3 - Quick-Response Methods for Handling Patient Demand Fluctuations in a Hospital
Jan Schoenfelder, Kurt Breithauer, Daniel Wright

4 - Stochastic Next-Day OR Scheduling Heuristics
Enis Kayis, Taghi Khantiev, Retik Gullu
Friday, 14:00-15:30

FD-01
Friday, 14:00-15:30 - AUDIMAX

Plenary (Scott) and Closing

Stream: Plenaries
Chair: Georg Pflug

1 - Bayes and Big Data: The Consensus Monte Carlo Algorithm
   Steven Scott
Accounting and Revenue Management

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Track(s): 22 24

Analytics

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Track(s): 24

Bioinformatics

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Track(s): 25

Computational and Experimental Economics

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Track(s): 8

Continuous Optimization

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Track(s): 26

Control Theory

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Track(s): 28

Discrete Optimization

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Track(s): 4 7

Energy and Environment

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Track(s): 16 18 19

Financial Modelling

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Track(s): 27

Forecasting

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Track(s): 8

Game Theory

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Track(s): 9 17

Graphs and Networks

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Multiple Criteria Decision Making
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Neural Networks and Fuzzy Systems
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Track(s): 25

OR for Security
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OR Software, Modelling Languages
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Track(s): 31

Plenaries
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Policy Modelling and Public Sector OR
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Prize awards
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Production and Operations Management
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Scheduling and Project Management
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Semi plenaries II
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Semi plenaries III
Track(s): 19

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**Simulation and Decision Support**
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**Supply Chain Management**
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