

TECHNICAL PROGRAM

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

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

■ 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

■ 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

■ 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 Baykasoğlu

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 Competition

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

Mareike 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 Hatziargyriou
- 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 Desing 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 Piscicella, 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 - ÜR 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 - ÜR 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, Lawrence Ausubel***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, Bjoern 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 Steinker***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***Ilmira 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 Wrzaczek
- 4 - **Managing Public Opinion While Fighting Terrorism**
Gustav Feichtinger, Jonathan Caulkins, Dieter Grass

- 1 - **Segmenting departments and wards to increase bed occupancy levels**
Manuel Walther, Alexander Hübner, Heinrich Kuhn
- 2 - **Estimating the impact of economies and diseconomies of scale on hospital case mix planning**
Sebastian Hof, Jens Brunner
- 3 - **Physician Scheduling Including Flexible Day, Shift and Break Patterns**
Melanie Erhard, Jens Brunner
- 4 - **Improving Platelet Supply through Coordinating Collection and Appointment Scheduling Operations**
Ali Ekici, Azadeh Mobasher, Okan Ozener

■ 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

■ 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

■ WB-31

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

Health Care Operations Management I

Stream: Health and Disaster Aid

Chair: *Katja Schimmelpfeng*

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, Theodosios 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 Hoefler*

- 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 Hoefler
- 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 Schuett
- 2 - **Maritime Logistics Strategies in Offshore Wind Energy**
Holger Schuett, Kerstin Lange, Hans-Dietrich Haasis
- 3 - **The Baltic Sea as a maritime highway in international multimodal transport**
Joachim R. Daduna, Gunnar Prause

■ 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 Piboonrungrroj
- 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***■ 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 Büttner, Felix Geyer, Sven Krumke***3 - Natural Gas Consumption Forecasting Models for Residential User with New Robust Optimization Tools***Ayşe Özmen, Gerhard-Wilhelm Weber***■ WC-17***Wednesday, 14:00-15:30 - HS 47***Supply Uncertainty (c)**

Stream: Supply Chain Management

Chair: *Stephan Wagner***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-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, Ruiwei 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, Ruiwei Jiang, Yiling Zhang

■ WC-21

Wednesday, 14:00-15:30 - ÜR Germanistik 2

Two-Stage Stochastic Programs - Glimpses from Theory and Practice (i)

Stream: Stochastic Optimization
Chair: *Matthias Claus*

- 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

■ WC-22

Wednesday, 14:00-15:30 - ÜR Germanistik 3

Market Design & Optimization II (i)

Stream: Accounting and Revenue Management
Chair: *Martin Bichler*

- 1 - **Truthful Combinatorial Assignment without Money**
Salman Fadaei, Martin Bichler
- 2 - **Target-Adjusted Utility Functions and Expected-Utility Paradoxes**
Robert Day, Mark Schneider, Robert Garfinkel
- 3 - **Cognitive time distortion as a source of economic risk**
Fabian von Scheele, Darek Haftor

■ WC-23

Wednesday, 14:00-15:30 - ÜR Germanistik 4

Linear and Quadratic Integer Programming

Stream: Integer Programming
Chair: *Dennis Michaels*

- 1 - **Integrally maximal lattice-free polyhedra**
Gennadiy 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

■ WC-24

Wednesday, 14:00-15:30 - ÜR Germanistik 5

Methodology (c)

Stream: Analytics
Chair: *Thomas Setzer*

- 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

■ WC-26

Wednesday, 14:00-15:30 - SR Geschichte 1

Advances in Nonlinear and Conic Programming

Stream: Continuous Optimization
Chair: *Mirjam Duer*

- 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

■ WC-27

Wednesday, 14:00-15:30 - SR Geschichte 2

Selected topics in Financial Modelling

Stream: Financial Modelling
Chair: *Erich Walter Farkas*

- 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 Zsifkovits***■ 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***Krystina 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 re-processing 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*

Wednesday, 16:00-16:45

■ WD-04

Wednesday, 16:00-16:45 - HS 21

Semi-plenary: Cook

Stream: Semi plenaries I

Chair: *Ivana Ljubic*

- 1 - **The Traveling Salesman Problem: A Blueprint for Optimization**
William Cook

■ WD-13

Wednesday, 16:00-16:45 - HS 41

Semi-plenary: Vigo

Stream: Semi plenaries II

Chair: *Richard Hartl*

- 1 - **Fifty Years of Heuristic Algorithms for the Vehicle Routing Problem**
Daniele Vigo

■ WD-17

Wednesday, 16:00-16:45 - HS 47

Semi-plenary: Grüne

Stream: Semi plenaries IV

Chair: *Gernot Tragler*

- 1 - **From now to infinity: decision making on a moving horizon**
Lars Grüne

■ WD-19

Wednesday, 16:00-16:45 - HS 50

Semi-plenary: Leung

Stream: Semi plenaries III

Chair: *Marco Lübbecke*

- 1 - **Humanitarian Logistics: Models and Challenges**
Janny Leung

Wednesday, 17:00-18:30

■ WE-02

Wednesday, 17:00-18:30 - HS 7

Project Management and Scheduling III (c)

Stream: Scheduling and Project Management

Chair: *Michael Römer*

- 1 - **A decision support system for multi-mode project scheduling, monitoring and control**
Oncu Hazir, Klaus Werner Schmidt
- 2 - **Optimal rescheduling in automotive industry**
Markus Kruber, Jonas Witt, Marco Lübbecke
- 3 - **A multi-commodity flow-based mixed-integer linear programming formulation for nurse rostering problems**
Michael Römer

■ WE-03

Wednesday, 17:00-18:30 - HS 16

Diploma/Master Thesis Prizes

Stream: Prize awards

Chair: *Peter Letmathe*

- 1 - **Development, implementation and analysis of exact algorithms for detecting cliques and clique relaxations in networks**
Isabel Podlinski
- 2 - **Exploiting Solving Phases for Mixed Integer Programs**
Gregor Hendel
- 3 - **An Extended Formulation for the Line Planning Problem**
Heide Hoppmann

■ WE-04

Wednesday, 17:00-18:30 - HS 21

Combinatorial optimization in graphs (c)

Stream: Discrete Optimization

Chair: *Eranda Cela*

- 1 - **Polynomial-time approximability of the k-Sink Location problem**
Yuya Higashikawa, Remy Belmonte, Naoki Katoh, Yoshio Okamoto
- 2 - **Precedence Constrained Knapsack Problems and an Application to Open Pit Mining**
Andreas Wierz, Britta Peis, Thomas S. McCormick

3 - The (Monotonic) Bend Number of Certain Graph Classes and Consequences

Elisabeth Gaar, Eranda Cela

■ 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

3 - Data Mining for Problem-Specific State Space Design in Routing Applications

Dirk Christian Mattfeld, Ninja Soeffker, Marlin Wolf Ulmer

■ 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 Engelmeyer

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*

1 - A Mathematical Model Proposal for Fleet Planning Problem of a Real-Life Intermodal Transportation Network

Nurhan Dudaklı, Adil Baykasoğlu, Kemal Subulan, A. Serdar Tasan, Can Kaplan, Murat Turan

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 Altendorfer, 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 Pishchulov, 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*

- 1 - Decentralized Energy Supply Systems: An Adaptive Discretization Approach**
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**
Cristina 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 Stehling

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

cance of the new risk measure goes beyond risk calculation to characterize possible scenarios, lending itself to risk management techniques.

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 Grottko*

- 1 - **Goal congruence and preference similarity between principal and agent with differing time horizons — setting incentives under risk**
Josef Schosser, Markus Grottko
- 2 - **Relative Performance Evaluation, Strategic Differentiation and Endogenous Correlation Levels**
Peter Schaefer
- 3 - **Utility-based investment neutral tax systems for decisions of tax payers with heterogeneous risk attitudes**
Markus Grottko, Markus Diller, Josef Schosser

■ WE-23

Wednesday, 17:00-18:30 - ÜR 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 - ÜR 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 Scheimberg

- 2 - **Gap functions and descent methods for quasi-equilibria**
Mauro Passacantando, Giancarlo Bigi
- 3 - **A close look at auxiliary problem principles for equilibria**
Giancarlo Bigi, Mauro Passacantando

■ 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, Ompe 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

Thursday, 8:30-10:00

■ TA-02

Thursday, 8:30-10:00 - HS 7

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: *Alena Otto*

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

■ 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

3 - Upper bound and exact method for the capacitated competitive facility location problem

Andrey Melnikov, Vladimir Beresnev

■ 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

■ 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

■ 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

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 Kümmling, 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 Roetzner, Lena Silbermayr, Werner Jammerneegg***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 Bindewald***■ 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; Racing Algorithms**
Jawad Elomari
- 3 - **A Conceptual Framework for Developing Multi-method Simulation Models**
Joachim Block

■ 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-Isa**
Lukas Borke

■ 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

■ 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 Sölch, Veronika Grimm, Bastian Rückel, Gregor Zöttl
- 3 - **Technical Capacities of Gas Transportation Networks – Theoretical and computational challenges**
Lars Schewe, Christine Hayn

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

■ TA-20

Thursday, 8:30-10:00 - ÜR 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 Bouttier, 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

■ TA-21

Thursday, 8:30-10:00 - ÜR 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

■ TA-22

Thursday, 8:30-10:00 - ÜR Germanistik 3

Advanced Analytics in Revenue Management (i)

Stream: Accounting and Revenue Management
Chair: Catherine Cleophas

1 - Nonparametric Demand Estimation in Airline Revenue Management
Johannes Ferdinand Jörg, Catherine Cleophas

2 - Optimal pricing of discrete and continuous airfares in the presence of endogeneity for revenue maximization
Jan Felix Meyer, Goeran Kauermann

3 - More efficient forecasting for airline revenue management
Alexander Dyskin

■ TA-23

Thursday, 8:30-10:00 - ÜR Germanistik 4

Decomposition in Integer Programming (c)

Stream: Integer Programming
Chair: Jonas Witt

1 - A Benders Decomposition Approach for Static Data Segment Location to Servers Connected by a Tree Backbone
Goutam Sen, Narayan Rangaraj, Mohan Krishnamoorthy, Vishnu Narayanan

2 - Dantzig-Wolfe Reformulations for the Stable Set Problem
Jonas Witt, Marco Lübbecke

■ TA-24

Thursday, 8:30-10:00 - ÜR Germanistik 5

Social Networks & Customer Reviews (c)

Stream: Analytics
Chair: Jochen Gönsch

1 - Models and Methods for the Analysis of the Diffusion of Skills in Social Networks
Alberto Ceselli, Marco Cremonini, Simeone Cristofaro

2 - What Makes Consumers Unsatisfied with Your Products: Review Analysis in a Fine-Grained Level
Ping Ji

3 - Supporting Product Optimization by Customer Data Analysis
Tatiana Deriyenko, Dirk Christian Mattfeld, Tetiana Zinchenko

■ TA-25

Thursday, 8:30-10:00 - ÜR Alte Geschichte

Fuzzy Decision Systems

Stream: Neural Networks and Fuzzy Systems
Chair: Jaroslav Ramik

1 - What automaton model captures decision making? A call for finding a behavioral taxonomy of complexity
Bodo Vogt

2 - Incomplete preference matrix on alo-group and its application to ranking of alternatives
Jaroslav Ramik

■ TA-26

Thursday, 8:30-10:00 - SR Geschichte 1

Optimization Algorithms and Duality (c)

Stream: Continuous Optimization
Chair: Nico Strasdat

1 - Adaptive Representation of Large 3D Point Clouds for Shape Optimization
Damir Vucina, Milan Ćurković

2 - Efficient optimization of hyper-parameters for least squares support vector regression
Nico Strasdat, Andreas Fischer, Gerd Langensiepen, Klaus Luig, Thorsten Thies

■ TA-27

Thursday, 8:30-10:00 - SR Geschichte 2

Stochastic optimization in energy trading

Stream: Financial Modelling
Chair: Nils Löhndorf

1 - Optimal gas storage valuation and futures trading under a high-dimensional price process
Nils Löhndorf, David Wozabal

2 - Medium-Term Planning for an Alpine Hydro Storage Power System in a Market Environment by Stochastic Optimization
Andreas Eichhorn, Nils Löhndorf

- 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 Taherifard
- 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 Kristjánsson
- 3 - Open Source Multi-Stage Scenario Tree Generation
Ronald Hochreiter

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

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 Rifki, Hirotaka Ono

2 - A matheuristic 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

2 - Simultaneous Design of Closed and Opened-Loop Supply Chain Networks

Eren Ozceylan

3 - MIP-based approaches for robust storage loading problems with stacking constraints

Thanh Le Xuan, Sigrid Knust

4 - Optimization models for strategic planning of bike sharing systems under consideration of operative system properties

André Koch, Kathrin Fischer

■ 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 Passengar 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*

- 1 - **Optimized adaptive production networks for modular plant designs in the process industry**
Dominik Wörsdörfer, Pascal Lutter, Stefan Lier, Brigitte Werners
- 2 - **Management Coordination for Superstructures of Decentralized Large Scale Supply Chains under Uncertainty**
Kefah Hjaila, José M. Laínez-Aguirre, Luis Puigjaner, Antonio Espuña
- 3 - **Investments in supplier economies of scope with two different products and different supplier characters**
Jan Trockel
- 4 - **How does buyer-supplier relationship operated in the joint venture business environment and affected the performance of the firms?**
Weixi Han

■ 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'Andreagiovanni, 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

■ TB-16

Thursday, 10:30-12:30 - HS 46

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

Thursday, 10:30-12:30 - HS 47

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

Thursday, 10:30-12:30 - HS 48

(c) 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

3 - Strategic assesment 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 health-care system - A System Dynamics Approach

Salman Shehab, Afshin Mansouri, Tillal Eldabi, Virginia Spiegler

■ TB-19

Thursday, 10:30-12:30 - HS 50

(c) 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

Thursday, 10:30-12:30 - ÜR Germanistik 1

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, Erlon 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 Mehrlitz

■ 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 Schaffhauser-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 Schaffhauser-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

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-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

■ 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 Kaniovskiy*

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 Kaniovskiy, Georg Pflug, 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

Jerzy 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

Thursday, 14:00-15:30

■ 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 Metahuristic 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*

-
- 1 - **Finding Binary Rules for Purchase Intention in e-Commerce**
Arik Sadeh
 - 2 - **Team Collaboration and Research Productivity: the case of economics publications**
Boontarika Paphawasit
-

■ TC-09

Thursday, 14:00-15:30 - HS 30

Scheduling and games

Stream: Game Theory

Chair: *Rob van Stee*

- 1 - **Vector scheduling and packing games**
Leah Epstein, Elena Kleiman
 - 2 - **Minimization load balancing scheduling problems: a unified approach for designing EPTASs**
Asaf Levin, Ishai Kones
 - 3 - **Coordinating Selfish Players in Multi-Job Scheduling Games**
Fidaa Abed, José Correa, Chien-Chung Huang
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■ TC-10

Thursday, 14:00-15:30 - HS 31

Routing Methods II (c)

Stream: Logistics and Transportation

Chair: *Karl Doerner*

- 1 - **Investigations on network flow-based mathematical models for vehicle scheduling and vehicle routing with deliveries and pickups and loading constraints**
Taieb Mellouli
 - 2 - **Optimization Approaches for Recreational Bicycle Tour Planning**
Benedikt Klocker, Günther Raidl, Matthias Prandtstetter
 - 3 - **The Lateral Transshipment Problem for A Priori Routes and Piecewise Linear Profits**
Martin Romauch, Richard Hartl, Thibaut Vidal
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■ TC-11

Thursday, 14:00-15:30 - HS 32

Energy-efficient Mobility III

Stream: Logistics and Transportation

Chair: *Christoph Helmberg*

- 1 - **Energy Efficient Freight Train Composition and Scheduling**
Frederik Fiand, Uwe T. Zimmermann

- 2 - **Time-expanded ILP formulations for finding optimal locations for charging stations in an electric car sharing network**
Georg Brandstätter, Markus Leitner, Ivana Ljubic
 - 3 - **Electric vehicle routing with stochastic energy consumption**
Henning Preis, Stefan Frank, Karl Nachtigall
-

■ TC-12

Thursday, 14:00-15:30 - HS 33

Railway Scheduling (c)

Stream: Logistics and Transportation

Chair: *Kirsten Hoffmann*

- 1 - **Optimization of railway timetable by allocation of extra time supplements**
Takayuki Shiina, Susumu Morito, Jun Imaizumi
 - 2 - **Models for Train Timetabling Problems with Configuration Based Ordering Constraints**
Frank Fischer
 - 3 - **A hybrid solution approach for railway crew scheduling problems with attendance rates**
Kirsten Hoffmann
-

■ TC-13

Thursday, 14:00-15:30 - HS 41

Hierarchical Demand Fulfillment (i)

Stream: Supply Chain Management

Chair: *Herbert Meyr*

- 1 - **Multi-period Deterministic Hierarchical Demand Fulfillment**
Jaime Cano Belmán, Herbert Meyr
 - 2 - **Managing Scarce Supply in Customer Hierarchies with Service Level Agreements**
Konstantin Kloos
 - 3 - **Profit-maximizing stochastic demand fulfillment in customer hierarchies**
Maryam Nouri Roozbahani, Moritz Fleischmann
-

■ TC-14

Thursday, 14:00-15:30 - HS 42

Network Design II

Stream: Graphs and Networks

Chair: *Markus Leitner*

- 1 - **Optimal Design of Shared Networks: From Bioinformatics to Telecommunications.**
Martin Luipersbeck, Eduardo Álvarez-Miranda, Ivana Ljubic, Markus Sinnl

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***■ 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 Bergh***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 Buetikofer, Christoph Hofer***■ 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***■ TC-17***Thursday, 14:00-15:30 - HS 47***Optimization and Games (c)**

Stream: Game Theory

Chair: *Jasper de Jong***1 - Bi-Allocation Games — Cooperative Games with Multiple Utilities***Igor Kozeletskyi, Alf Kimms, Ana Meca***2 - The Sequential Price of Anarchy for Atomic Congestion Games***Jasper de Jong, Marc Uetz***■ TC-18***Thursday, 14:00-15:30 - HS 48***(c) Investment and Expansion Planning**

Stream: Energy and Environment

Chair: *Valentin Bertsch***1 - Multistage Expansion Planning of Distribution Networks Including DG and EV Charging Stations***Pilar Meneses, Javier Contreras***2 - Risk-adapted capacity determination of flexibility investments for distributed energy resource systems***Katrin Schulz***3 - A multi-objective approach for time segment selection in power generation and transmission expansion planning models***Viktor Slednev, Valentin Bertsch, Wolf Fichtner***■ TC-19***Thursday, 14:00-15:30 - HS 50***Energy Finance**

Stream: Energy and Environment

Chair: *Raimund Kovacevic***1 - A structural model for coupled electricity markets***Rüdiger Kiesel***2 - Bilevel oligopolistic electricity market models: The case of Switzerland and surrounding countries***Martin Densing***3 - Valuation and Pricing of Electricity Delivery Contracts - the Producer's View***Raimund Kovacevic***■ TC-20***Thursday, 14:00-15:30 - ÜR Germanistik 1***Optimal Valuations (c)**

Stream: Stochastic Optimization

Chair: *Rüdiger Schultz***1 - Valuating complex options with kernel-based approximate policy iteration***Tobias Jung***2 - Value of a Firm with Suspension and Exit Options***Carlos Oliveira, Manuel Guerra, Cláudia Nunes*

3 - Optimal Value of a Firm Investing in Exogenous Technology

Pedro Pólvara, Cláudia Nunes, Manuel Guerra

■ TC-21

Thursday, 14:00-15:30 - ÜR 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 - ÜR Germanistik 3

Simulation and Managerial Accounting (i)

Stream: Accounting and Revenue Management

Chair: *Stephan Leitner*

1 - A dynamic model for 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 - ÜR Germanistik 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 Álvarez, 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 - ÜR Germanistik 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 - ÜR Alte 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 Arıkan, Ioanna Falagara 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**
Khaled 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 Drexler, Stefan Irnich, Frank Meisel
- 2 - **The Active-Passive Vehicle-Routing Problem, Part II: Comparison of Column-Generation Subproblem Solvers**
Stefan Irnich, Nicola Bianchessi, Michael Drexler, Frank Meisel, Christian Tilk

3 - **Branch-and-Price-and-Cut for a Service Network Design and Hub Location Problem**

Ann-Kathrin Rothenbacher, Michael Drexler, 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 Eliiyi, Levent Kandiller
- 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 Eliyi

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 geonomics 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 Yuçeoğlu

■ 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

3 - Dynamic multi-product lot-sizing problem under uncertainty

Svenja Lagershausen, Stefan Helber

■ 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 Triebs

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***■ 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***■ 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 Gärtner, Alexander Schuller***3 - The Science of Data-Driven Prediction***Ralph Grothmann, Hans Georg Zimmermann***■ 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***■ FA-30***Friday, 8:30-10:00 - Visitor Center***Stochastic Programming in Energy and Environment (i)**

Stream: Stochastic Optimization

Chair: *Steffen Rebennack***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 Schlechtriem, Rüdiger Schultz***3 - A Framework for Stochastic Optimization with Distributional Ambiguity***Steffen Rebennack***■ 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?***Philippe 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

■ 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

■ 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

■ FB-19

Friday, 10:30-11:15 - HS 50

Semi-plenary: Wozabal

Stream: Semi plenaries III

Chair: Marco Laumanns

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

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

■ 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

■ 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 Lüer-Villagra, 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 Equilibria in Leader-Follower Hub Location and Pricing Problem***Dimitrije Čvokić, 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 Taheri, Robert Entriken, 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
Marzena Fügenschuh, Armin Fügenschuh, Marina Ludszuweit, Aleksandar Mojsic, Joanna Sokół

■ 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 Bretthauer, Daniel Wright

4 - Stochastic Next-Day OR Scheduling Heuristics
Enis Kayis, Taghi Khaniyev, Refik 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

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Crone, Sven F.	WC-08	Ekici, Ali	WB-31
Csiba, Dominik	WB-26	Eldabi, Tillal	TB-18
Čvokić, Dimitrije	FC-17	Elhafsi, Mohsen	FA-05
D'Andreagiovanni, Fabio	TB-14	Elias, Andreas	FA-17
Daduna, Joachim R.	WC-12	Elmi, Atabak	TB-03
Dagdeviren, Metin	TB-29	Elomari, Jawad	TA-15
Dahlquist, Erik	TB-19	Emde, Simon	TC-03
Dangelmaier, Wilhelm	TA-15	Engelmeyer, Torben	WE-08
Danielson, Mats	TA-29	Entriken, Robert	FC-18
Darlay, Julien	TB-23	Epstein, Leah	TC-09
Davari, Morteza	FA-02	Erhard, Melanie	WB-31
Davò, Federica	WB-19	Escudero, Laureano Fernando	TB-20
David, Balazs	TA-10	EsmailiAliabadi, Danial	TB-17
Davydov, Ivan	TC-06	Espuña, Antonio	TB-13, WE-21
Day, Robert	WC-22	Estellon, Bertrand	TB-23
De Bock, Koen W.	WB-24	Eufinger, Lars	WC-21

Fadaei, Salman	WC-22	Gärtner, Johannes	FA-24
Falagara Sigala, Ioanna	TC-31	Geissler, Bjoern	WB-23
Fandel, Günter	FA-09	Geldermann, Jutta	FC-04, TB-15
Farinelli, Simone	WB-19	Gentili, Luca	TC-22
Farkas, Erich Walter	WC-27	Gerchinovitz, Sébastien	TA-20
Faust, Oliver	TC-24	Gerhards, Patrick	TB-06
Fearon, Michael	TC-31	Geryl, Kobe	WB-05
Fechteler, Till	WB-15	Geyer, Felix	TA-05, WC-16
Feichtinger, Gustav	WB-28	Ghaviha, Nima	TB-19
Feil, Matthias	WC-03	Giacomello, Bruno	TC-22
Felberbauer, Thomas	TA-02	Girardi, Dario	TC-22
Feldotto, Matthias	FC-09, WE-09	Gitzel, Ralf	FC-24
Fercoq, Olivier	WB-26	Gkatzelis, Vasilis	WC-09
Fernández de Córdoba, María P.	FC-17	Glauben, Thomas	FA-31
Fiand, Frederik	TC-11	Glensk, Barbara	WE-18
Fichtinger, Johannes	TC-24	Gleue, Christoph	WB-08
Fichtner, Wolf	TC-18	Goderbauer, Sebastian	WE-14
Fidan, Hüseyin	TC-29	Goebbels, Steffen	TC-07
Fikar, Christian	TC-31	Goerigk, Marc	WB-21
Finardi, Erlon	TB-20	Goeva, Aleksandrina	WC-20
Fink, Rafael	WC-05	Gokce, Mahmut Ali	TB-05
Fischer, Andreas	TA-26	Golden, Bruce	TC-02
Fischer, Anja	WC-04, WE-23	Golesorkhi, Sougand	WE-13
Fischer, Frank	TC-12, WE-23	Gollmann, Thomas	WB-15
Fischer, Kathrin	TB-07	Gollnick, Volker	TA-11
Fischetti, Matteo	WA-01	Gomes, Sóstenes	TB-04
Flammini, Michele	WE-09	Gönsch, Jochen	FC-18, TC-24
Flath, Christoph	FA-24	González Rueda, Ángel Manuel	FC-17
Fleischmann, Moritz	TC-13	González-Díaz, Julio	FC-17
Florio, Alexandre	WB-07	Gössinger, Ralf	WC-05
Förster, Peter	WC-11	Gottschalk, Corinna	WB-04
Fortz, Bernard	WC-11, TB-14	Götz, Thomas	TC-28
Frank, Stefan	TC-11	Gouveia, Luís	TB-14, TC-14
Franz, Alexander	TB-19	Graber, Anna	TC-16
Franz, Christian	FC-11	Graovac, Stevica	WC-29
Fredo, Guilherme	TB-20	Grass, Dieter	WB-28
Frey, Markus	WB-17	Grasselli, Martino	TC-22
Friedow, Isabel	TC-04	Grimm, Veronika	TA-18
Fries, Carlos Ernani	WE-24	Grinshpoun, Tal	WB-03
Fröhling, Magnus	TB-19	Groß, Martin	WB-23
Fruehwirth, Manfred	TB-22	Groetzner, Patrick	WC-26
Fügener, Andreas	WB-03, FC-31	Gröflin, Heinz	TB-03
Fügenschuh, Armin	TA-11, FC-23	Gronalt, Manfred	TC-31
Fügenschuh, Marzena	FC-23	Grothmann, Ralph	FA-24, TC-25
Fujishige, Satoru	TB-09	Grottke, Markus	WE-22
Fulga, Cristinca	WE-15	Gruchmann, Tim	WB-15
Furini, Fabio	FC-14, WB-14	Grüne, Lars	WD-17
Furini, Fabio	WB-14	Grunow, Martin	WB-08, WE-17
Furuta, Takehiro	TC-16	Gschwind, Timo	FC-14
Fux, Vladimir	WB-22	Guan, Yongpei	TB-21
Gaar, Elisabeth	WE-04	Guerra, Manuel	TC-20
Gabrel, Virginie	WB-14	Gullu, Refik	FC-31
Gadat, Sébastien	TA-20	Gundogdu, I.Bulent	TB-18
Gahm, Christian	FC-02	Günther, Maik	FC-19
Gairing, Martin	TB-09	Günther, Markus	TB-15
Gamrath, Inken	FC-19	Guo, Yuanyuan	WC-20
Gann, David	WC-15	Gürel, Sinan	TB-16
Garbs, Matthias	FC-04	Gurski, Frank	TB-04, TC-07
Garbuzova-Schliffter, Maria	WE-18	Gutenschwager, Kai	WB-15
Gardí, Frédéric	TB-23	Gutjahr, Walter	TA-02, WC-10
Garfinkel, Robert	WC-22	Gwiggner, Claus	WB-24
Garrow, Laurie Ann	TB-24	Haasis, Hans-Dietrich	WC-12
Gasnikov, Alexander	WB-26	Haasis, Hans-Dietrich	WB-12, WE-12
Gauthier, Jean-Bertrand	FA-23	Hacibeyoglu, Mehmet	TC-06
Górecka, Dorota	TC-29	Haftor, Darek	WC-22
Gärtner, Manuela	WE-06	Hagspiel, Simeon	WE-19

Hahn, Gerd J.	WB-13	Isenberg, Florian	WB-05
Hamouda, Essia	FA-05	Ivanov, Dmitry	TA-28
Han, Weixi	TB-13	Izadikhah, Mohammad	TC-29
Hanasusanto, Grani	WB-21	Ćurković, Milan	TA-26
Hanke, Michael	TC-27	Jablonsky, Josef	WB-06
Hara, Kousuke	TA-12	Jacobs, Evert-Jan	TC-15
Harks, Tobias	TB-09	Jaehn, Florian	WB-03
Hartl, Richard	WB-02, WB-07, WE-07, TC-10, WB-10, WC-11, WB-29	Jaksic, Marko	WC-17
Harvey, Nigel	TB-08	Jammernegg, Werner	TA-13
Hassler, Michael	FC-18	Janacek, Jaroslav	TA-04
Hatziargyriou, Nikos	WB-16	Jargalsaikhan, Bolor	TC-23
Hauschild, Dominik	WC-28	Jäger, Sebastian	WB-10
Hauser, Raphael	TA-27	Jelvez, Enrique	TA-05
Hähle, Anja	TB-11	Jevtic, Milos	WC-29
Hayn, Christine	TB-04, TA-18	Ji, Ping	TA-24
Hazir, Oncu	WE-02	Jiang, Ruiwei	WC-20, TB-21
Heidt, Andreas	FC-04	Jin, Qinian	TC-26
Hein, Alexander	TA-14	Joormann, Imke	WB-23
Helber, Stefan	FA-17	Jörg, Johannes Ferdinand	TA-22
Helmberg, Christoph	TB-11	Jörnsten, Kurt	FC-02, WB-22
Helmke, Hartmut	FC-04	Joyce-Moniz, Martim	TB-14
Hemmelmayr, Vera	WC-10	Jung, Tobias	TC-20
Hendel, Gregor	WE-03	Kalkowski, Sonja	WC-05
Hennig, Kai	FC-19	Kandiller, Levent	FA-05, FA-10
Henzinger, Monika	WC-09	Kanet, John J.	FC-02
Hermann, Robert	FA-18	Kaniovski, Serguei	FA-09
Herrmann, Frank	WC-17	Kaniovskiy, Yuriy	TB-27
Herrmann, Sascha	WE-06	Kapelko, Magdalena	WC-06
Herz, Maximilian	FA-22	Kaplan, Can	WE-10
Hiermann, Gerhard	WC-11	Kapolke, Manu	FC-04
Higashikawa, Yuya	WE-04	Karänke, Paul	FA-07
Hildebrand, Robert	WC-23	Karpuzoğlu, Osman	FC-12
Hildenbrandt, R.	TC-07	Karrer, Arno	TC-22
Hilger, Timo	WE-06	Kasperski, Adam	TB-04
Hiller, Benjamin	WE-21	Kassa, Rabah	WB-29
Hintsch, Timo	TA-10	Kato, Satoshi	TA-12
Hinze, Richard	FC-06	Katoh, Naoki	WE-04
Hirsch, Patrick	FA-12, TC-31	Kauermann, Goeran	TA-22
Hitaj, Asmerilda	WE-27	Kaya, Murat	TB-17
Hjaila, Kefah	TB-13	Kayis, Enis	FC-31
Hoang, Nam Dung	TA-11	Kazempour, S. Jalal	WB-16
Hoberg, Kai	WB-24	Kellenbrink, Carolin	WB-02
Hochreiter, Ronald	TA-31	Kerstens, Kristiaan	WC-06
Hofer, Martin	WC-09	Kesselheim, Thomas	WC-09
Hof, Sebastian	WB-31	Khaniyev, Taghi	FC-31
Hofer, Christoph	TC-15	Khmelev, Alexey	TB-10
Hoffmann, Isabella	WC-04	Kiesel, Rudiger	TC-19
Hoffmann, Kirsten	TC-12	Kimms, Alf	FA-17, TC-17, WE-28, TB-31
Hofmann, Jan	WB-18	Kirchner, Sarah	WC-02, TA-14
Holzappel, Andreas	WE-17	Kirschstein, Thomas	WE-11
Hopf, Michael	TB-02	Kirste, Michael	WB-30
Hoppmann, Heide	WE-03	Kleiman, Elena	TC-09
Hottung, André	FC-12	Klein, Judith	FA-30
Huang, Chien-Chung	TC-09	Klein, Robert	TC-24
Hübner, Alexander	FA-10, WE-17, WB-31	Kliwer, Natalia	TB-10, WB-11
Hughes, Max	TB-27	Klimm, Max	TB-09
Huisman, Dennis	TD-13	Klocker, Benedikt	TC-10
Hungerländer, Philipp	WC-04, WE-23	Kloos, Konstantin	TC-13
Huppmann, Daniel	WB-18	Knust, Sigrid	TC-03, TB-07
Ibrahim, Mohammed	TC-06	Koch, André	TB-07
Ifrim, Sandra	WB-27	Koch, Sebastian	FA-22
Ilani, Hagai	WB-03	Koch, Thorsten	FC-19
Imaizumi, Jun	TA-12, TC-12	Kochetov, Yury	FC-17
Ionescu, Lucian	WB-11	Kohani, Michal	WB-11
Irnich, Stefan	FA-04, TA-10, FC-14	Köhnke-Mendonca, Christian	WE-18
		Kolb, Johannes	FA-22

Kollias, Konstantinos	TB-09	Li, Xiyu	WC-03
Kolmykova, Anna	WE-12	Liao, Chung-Shou	WB-07
Kones, Ishai	TC-09	Lieder, Alexander	TC-02
König, Eva	TB-12	Lier, Stefan	TB-13
König, Felix G.	TB-10	Liers, Frauke	FC-04
Kontic, Branko	TB-18	Lin, Shao Chieh	WB-07
Kopa, Milos	WB-20	Lind-Braucher, Susanne	FA-18
Kopfer, Herbert	FA-07	Lipara, Carmen	WB-06
Körper, Janina	FC-19	Lipatnikov, Andrey	WE-05
Koster, Arie	TA-14, WE-14	Lippi, Marco	TB-08
Kotsialou, Grammateia	TB-09	Lisser, Abdel	TC-21
Kovacevic, Raimund	TC-19, WC-19	Listes, Ovidiu	WE-24
Kovacs, Attila	WB-10	Lium, Arnt-Gunnar	WC-30
Kovacs, Edith	WE-20, WE-30	Ljubic, Ivana	TC-11, TC-14, WE-14
Kozeletskyi, Igor	TC-17	Lohaus, Mathias	WE-18
Kozmik, Vaclav	WB-20	Löhndorf, Nils	TA-27
Krawinkler, Andreas	WB-10	Lorena, Luiz A. N.	TB-04
Kreiter, Tobias	FC-02	Lorenz, Ulf	TA-03, WC-29
Kress, Moshe	WB-28	Lorenzo-Freire, Silvia	TB-17
Kresz, Miklos	TA-10	Löschl, Judith	TB-22
Krishnamoorthy, Mohan	TA-23	Lotter, Andreas	WE-28
Kristjansson, Bjarni	TA-31	Lübbecke, Marco	WC-02, WE-02, TA-06, WE-14, FA-23, TA-23, TC-23
Kruber, Markus	WE-02	Lucidi, Stefano	WC-23
Krueger, Max	WC-28	Ludszuweit, Marina	FC-23
Krüger, Corinna	TA-29	Lüer-Villagra, Armin	FC-11
Krumke, Sven	TA-05, WC-16	Lüers, Daniela	FA-12
Krymova, Ekaterina	WB-26	Luig, Klaus	TA-26
Kuhn, Daniel	TB-21, WB-21	Luipersbeck, Martin	TC-14
Kuhn, Heinrich	FA-05, WE-17, WB-31	Lüpke, Lars	TB-15
Kumbartzky, Nadine	WE-19	Luptacik, Mikulas	FA-16
Kümmling, Michael	TA-12	Lusby, Richard	TB-12
Kunz, Nathan	TB-31	Luther, Stefan	WC-28
Kurz, Sascha	WC-04, FA-09	Lutter, Pascal	TA-12, TB-13
Kvet, Marek	TA-04	M.Farimani, Fazel	TA-28
Kwee, Ivo	FA-14	Ma, Tai-yu	WB-07
Kyriakidis, Epaminondas	WC-07	Maczy, Sylvia	FC-24
Láinez-Aguirre, José M.	TB-13	Madlener, Reinhard	WE-08, WE-18
Labaj, Martin	FA-16	Maggioni, Francesca	TC-21
Lacour, André	TB-25	Magnes, Christoph	TB-25
Lacroix, Mathieu	WB-14	Mahjoub, A. Ridha	WB-14
Laeven, Roger	WE-27	Mahlberg, Bernhard	WC-06, FA-19
Lagershausen, Svenja	FA-17	Maier, Sebastian	WC-15
Lam, Henry	WC-20	Maindl, Thomas I.	TB-19
Lamas, Patricio	FA-02	Maiwald, Marc	WE-28
Lamballais Tessensohn, Tim	TA-20	Malaguti, Enrico	WB-14
Lange, Kerstin	WC-12	Mallach, Sven	WE-23
Langensiepen, Gerd	TA-26	Mamageishvili, Akaki	TA-09
Larroyd, Paulo Vitor	TB-20	Mandrescu, Eugen	FC-14
Larsen, Jesper	TB-12	Mangelsdorf, André	TC-25
Lau, Alexander	TA-11	Maniezzo, Vittorio	TA-06
Laumanns, Marco	WE-13	Manitz, Michael	WC-17
Le Xuan, Thanh	TB-07	Mansouri, Afshin	TB-18
Lechleuthner, Alex	WE-28	Mantin, Benny	FC-22
Lechner, Gernot	TA-13, WB-13	María, Gómez-Rúa	TB-17
Lee, Jinwook	WE-20	Marbukh, Vladimir	WC-24
Leisten, Rainer	FC-02, WB-10, FC-11, WE-17	Marianov, Vladimir	FC-11
Leitner, Markus	TC-11, TC-14, WE-14	Martínez, Sandra	WB-09
Lemkens, Stephan	WE-14	Martin, Alexander	FC-04, TB-11, TA-18, WB-23
Lenz, Ralf	FC-19	Martin, Sébastien	WB-14
Lenzner, Pascal	WE-09	Martinovic, John	TC-04
Lessmann, Stefan	WB-24	Maschler, Johannes	FC-05
Letmathe, Peter	TC-22	Mason, Andrew J	TA-31
Leung, Janny	WD-19	Mastrogiacomo, Elisa	WE-27
Levin, Asaf	TC-09	Mattfeld, Dirk Christian	WE-07, TC-15, FC-24, TA-24
Levit, Vadim	FC-14	Matuschke, Jannik	WB-04
Li, Hanyi	TB-07		

Mauri, Geraldo	TB-04	Necula, Ciprian	WC-27
Mavri, Maria	FA-06	Nelissen, Franz	TB-19
Mádi-Nagy, Gergely	WE-20	Nguyen, Tri-Dung	WB-09
Mayer, Beate	TB-22	Nguyen, Van	WC-26
Mayer, Stefan	FC-22	Nickel, Stefan	TA-07
McCormick, Thomas S.	WB-04, WE-04	Nicol, Florence	TA-20
Meca, Ana	TC-17	Niessner, Helmut	TB-31
Mediavilla, Miguel	WB-09	Nishihara, Michi	TB-27
Medvid, Vladimir	FA-11	Nistor, Marian Sorin	WC-28
Megel, Romain	TB-23	Nitsche, Sabrina	FA-30
Mehlitz, Patrick	TB-20	Nolz, Pamela	WC-10
Meisel, Frank	FA-04, WE-11	North, Reiner	TC-25
Meissner, Joern	WB-20	Nossack, Jenny	TC-02, WB-22
Mellouli, Taieb	TC-10	Nouri Roozbahani, Maryam	TC-13
Melnikov, Andrey	TA-04	Novak, Andreas	WB-28
Melo, Teresa	FC-11	Nowak, Maciej	WC-29
Meneses, Pilar	TC-18	Nowak, Thomas	TA-13, WB-13
Merschformann, Marius	TB-07	Nunes, Cláudia	TC-20, WB-27
Meyer, Anne	TA-07	O'Donnell, Christopher	WC-06
Meyer, Jan Felix	TA-22	Oberst, Christian	WE-18
Meyer-Nieberg, Silja	WC-28	Ohst, Jan Peter	WC-14
Meyr, Herbert	TC-13	Okamoto, Yoshio	WE-04
Michaels, Dennis	TA-14	Oliveira, Carlos	TC-20
Michnik, Jerzy	TB-29	Olsen, Nils	WB-11
Mihalák, Matús	TA-09	Öncan, Temel	FC-12
Mild, Andreas	TC-24	Ono, Hirotaka	TB-06
Milstein, Irena	FC-18	Opitz, Jens	TA-12
Miltenberger, Matthias	TB-23	Oriolo, Gianpaolo	WB-04
Minner, Stefan	FA-07, WB-07, WE-12, FB-13	Ostermeier, Manuel	FA-10
Mirzaei, Samira	FA-10	Ottendorfer, Wilhelm	TB-19
Mitra, Subrata	FC-06	Otto, Alena	WC-03
Miyagawa, Masashi	FA-11	Otto, Christin	WE-16
Mizgier, Kamil	WC-13	Ozcan, Sel	FA-05
Mobasher, Azadeh	WB-31	Ozceylan, Eren	TB-07
Mohr, Esther	TC-05	Ozener, Okan	WB-31
Mohr, Robert	TB-26	Özmen, Ayse	WC-16
Mojsic, Aleksandar	FC-23	Paetz, Friederike	WE-15
Möller, Torsten	FB-17	Pajean, Clément	TB-23
Monaco, Gianpiero	WE-09	Palaniyandi, Raveendran	TB-12
Moneta, Diana	WB-19	Pandelis, Dimitrios	WC-17
Monge, Juan Francisco	TB-20	Pandzic, Hrvoje	WB-16
Montemanni, Roberto	FA-14	Papadimitriou, Dimitri	TB-14
Morabito, Reinaldo	TC-23	Papageorgiou, Stylianos	WC-13
Morales, Nelson	TA-05	Paphawasit, Boontarika	TC-08
Morgan, Jennifer	TC-16	Paraschiv, Florentina	WC-19
Moriggia, Vittorio	WB-20	Parragh, Sophie	WB-10, WC-10, WB-29
Morito, Susumu	TA-12, TC-12	Passacantando, Mauro	WE-26
Morohosi, Hozumi	TC-16	Pawlak, Grzegorz	TA-06, WC-08
Morsi, Antonio	WB-23	Pólvora, Pedro	TC-20
Mosccardelli, Luca	WE-09	Peis, Britta	WB-04, WE-04, TB-09
Moser, Elke	WB-18	Pelz, Peter	TA-03, WC-29
Mosheiov, Gur	TB-03	Perlman, Yael	WE-13
Movahedi, Mohammad Mehdi	WE-30	Pesch, Erwin	TC-02, WC-03
Mudimu, Ompe Aime	WE-28	Pesch, Hans Josef	TC-28
Mueller, Daniel	FC-12	Petukhina, Alla	WB-27
Mueller, Mareike	WB-15	Pferschy, Ulrich	FC-02
Munari, Pedro	TC-23	Pfetsch, Marc	WB-23
Nace, Dritan	WB-21	Pflug, Georg	TC-21, TB-27
Nachtigall, Karl	WC-03	Piboonrungrroj, Pairach	WC-13
Nachtigall, Karl	TC-11	Pichler, Alois	WB-19, TC-21
Naim, Mohamed	TA-28	Pickl, Stefan Wolfgang	WC-28
Narayanan, Vishnu	TA-23	Piltan, Mehdi	WC-15
Nasekin, Sergey	WB-27	Pimentel, Rita	WB-27
Naseraldin, Hussein	WC-30	Pinar, Mustafa	FA-27
Nezinský, Eduard	FA-16	Pinheiro, Diogo	WC-16
Neck, Reinhard	TB-28	Pinson, Pierre	WB-16

Pinter, Miklos	TA-17	Roszkowska, Ewa	TC-29
Pisciella, Paolo	TA-19, WB-19	Rothenbacher, Ann-Kathrin	FA-04
Pishchulov, Grigory	FA-06, WE-13	Rotin, Igor	WC-08
Piu, Francesco	WB-19	Roughgarden, Tim	WC-09
Plyasunov, Alexander	FC-17	Roy, Sankar Kumar	WC-07
Podlinski, Isabel	WE-03	Rub Nawaz, Raja	TB-29
Pöhle, Daniel	WC-03	Rubin, Eran	FC-22
Polak, John	WC-15	Rubio-Herrero, Javier	TC-05
Polak, Pawel	WC-27	Rückel, Bastian	TA-18
Popa, Radu Constantin	WB-08	Ruckmann, Jan-J	WC-26
Popovic, Drazen	WE-10	Rudi, Andreas	TB-19
Poss, Michael	WB-21	Rudolph, Günter	WE-29
Pöttgen, Philipp	TA-03, WC-29	Ruhnau, Oliver	WE-08
Poulsen, Rolf	TC-27	Ruiz, Ruben	FB-04
Prandtstetter, Matthias	TC-10	Rujeerapaiboon, Napat	WB-21
Prause, Gunnar	WC-12	Rusyaeva, Olga	WB-20
Preis, Henning	TC-11	Ruthmair, Mario	WE-14
Prekopa, Andras	TD-04, WE-20	Ruzika, Stefan	WC-14, TC-28
Puchert, Christian	TA-06	Saavedra-Rosas, Jose	TA-05
Puchinger, Jakob	WE-07	Saboiev, Rizo	TB-20
Puchinger, Jakob	WC-11	Sackmann, Dirk	FC-06, WB-12
Puigjaner, Luis	TB-13	Sadeh, Arik	TC-08
Pulaj, Jonad	TB-14	Saeb, Ali	TC-06
Purshouse, Robin	WE-29	Sahin, Guvenc	FA-14, TB-17
Qu, Zheng	WB-26	Sahling, Florian	TA-03, WC-31
Raghavan, T. E. S.	TA-17	Sahoo, Amit Kumar	FA-15
Raidl, Günther	FC-05, TC-10	Sakou, Kai	FA-15
Raith, Andrea	WC-14	Saliba, Sleman	TA-05, WC-16
Rambau, Jörg	WC-04	Salo, Ahti	WC-19
Ramik, Jaroslav	TA-25	Santos, Paulo Sergio Marques	WE-26
Rangaraj, Narayan	TB-12, TA-23	Santos-Arteaga, Francisco Javier	WC-15
Rasol Roveicy, Mohamad Reza	WB-06	Sasse, Lisa	TB-31
Rauner, Marion	TB-22, TB-31	Savku, Emel	WC-16
Rebennack, Steffen	FA-30	Sayer, Marlene	FA-18
Recht, Peter	WE-16	Schacht, Matthias	WE-19, WC-31
Reiner, Gerald	TB-31	Schaefer, Peter	WE-22
Reisser, Matthias	TB-24	Schaffhauser-Linzatti, Michaela	TB-22
Rest, Klaus-Dieter	FA-12	Schauer, Joachim	FC-02
Rethmann, Jochen	TB-04, TC-07	Schänzle, Christian	TA-03
Reuer, Josephine	WB-11	Schebesch, Klaus Bruno	TB-24
Reza, Sajjida	TB-29	Scheimberg, Susana	WE-26
Ribeiro, Glaydston	TB-04	Scheithauer, Guntram	TC-04
Richtarik, Peter	WB-26	Schewe, Lars	TB-04, TA-18, WB-23
Richter, Felix	FC-24	Schilling, Andreas	WE-28
Richter, Knut	WE-13	Schlapp, Jochen	FA-09
Rickers, Steffen	WC-31	Schlechte, Thomas	TA-11
Rieck, Julia	TB-19	Schlechtriem, Christian	FA-30
Riedler, Martin	WE-14	Schlenner, Mario	WC-27
Rifki, Omar	TB-06	Schlenker, Hans	WE-31
Rihm, Tom	WC-02	Schlosser, Rainer	WC-30
Rinaldi, Francesco	WC-23	Schlöter, Miriam	FA-14
Rintamäki, Tuomas	WC-19	Schmand, Daniel	WB-04
Rittmann, Alexandra	WB-12	Schmickerath, Marcel	TA-10
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