

Program

[Monday](#) - [Tuesday](#) - [Thursday](#) - [Friday](#)

Monday

Monday, 8:00 AM - 9:30 AM

[MA-1: Some Models of Combinatorial Optimisation](#)

- [A new mathematical model for the daily satellite mission planning](#)
Glaydston Ribeiro, Miguel Constantino, Luiz A. N. Lorena
- [A Multi-Start Heuristic Approach for the Generalized Traveling Salesman Problem](#)
Albert E. Fernandes Muritiba, Paolo Toth, Valentina Cacchiani,
- [On Fairness in Fair Queuing](#)
Wieslaw Kubiak
- [Advances in the AutoGraphiX research program](#)
Pierre Hansen

[MA-2: OR-in-Development 1](#)

- [Introduction to the OR in Development Prize Competition](#)
L. Paul Fatti
- [Integrated Aircraft Fleeting and Routing at TunisAir](#)
Mohamed Haouari, Najla Aissaoui, Kamel Berrima, Hanif Sherali, Farah Zeghal Mansour
- [Forecasting demand using a model based on the application](#)
David Munoz, Omar Romero, Jose E. Detta-Silveira, David G. Munoz

[MA-3: Robust and Online Problems in Railways](#)

- [Evaluation of green-wave policy in real time railway traffic management](#)
Francesco Corman, Dario Pacciarelli, Marco Pranzo, Andrea D'Ariano
- [Efficient Heuristics for the Delay Management Problem](#)
Michael Schachtebeck
- [On the Online Track Assignment Problem](#)
Gabriele Di Stefano, Marc Demange, Benjamin Leroy-Beaulieu

[MA-4: OR in Natural Resources](#)

- [The cooperative strategies in natural resource modelling](#)
Sergei Schreider
- [Managerial and Economic Efficiency of Date Processing Industry in Saudi Arabia](#)
khalid alwis

- [Efficiency of Indian Marine Fishery using DEA](#)
Ajit Kumar Ray, Neelangshu Ghosh

MA-5: Lessons from OR Consultancy Practice 1

- [Surviving encounters with the client](#)
Sue Merchant
- [Lessons from OR Consultancy Practice](#)
Elise del Rosario
- [Water Resources Planning : a pragmatic approach to optimisation modelling](#)
Liz Archibald

MA-6: Inventory Management

- [AN EOQ MODEL WITH NON-HOMOGENEOUS POISSON DEMAND WITH EXPONENTIALLY INCREASING DEMAND](#)
Kethamokkala Sreenivasa Rao, Tesfa aregawi, Chandrasekhar Reddy
- [Two-Commodity Perishable Inventory System with Bulk Demand for One Commodity](#)
Gunaseelan Arivarignan, Balasubramanian Sivakumar, Venkata Yadavalli
- [Single Period Optimal Pricing Policies for Perishable Products](#)
Malick M. Ndiaye, Abdur Rahim

MA-7: Optimization Under Uncertainty

- [A Sequential Decision Problem on a Partially Observable Markov Process related to an Evaluation](#)
Toru Nakai
- [Risk-Sensitive Average Reward Optimality in Discrete-Time Markov Decision Processes](#)
Karel Sladky
- [Full information best choice problem when the number of observations has a negative binomial distribution](#)
mitsushi tamaki
- [Meta-Heuristic Approach For Training Hidden Markov Models](#)
Tarik AL ANI, Yskandar HAMAM

MA-8: Decision Analysis

- [Robust Risk-based Resource Allocation for Counter Terrorism](#)
Don Kleinmuntz
- [Predicted and actual utility in consumption-payment decisions](#)
Manel Baucells, Silvia Bellezza
- [A Portfolio Model for the Allocation of Resources to Standardization Activities](#)
Ahti Salo, Antti Toppila, Juuso Liesiö

- [Portfolio and Scenario Analysis in the Cost-Effectiveness Evaluation of Weapon Systems](#)
Jussi Kangaspunta, Ahti Salo, Juuso Liesiö

MA-9: Condition Based Maintenance and Prognostics

- [Conditional residual time modelling using both monitored responsive and reflective variables in oil samples](#)
Wenbin Wang
- [A Particle Filtering Approach for On-Line Failure Prognosis in a Planetary Carrier Plate](#)
George Vachtsevanos, Marcos Orchard
- [PHM Simulation in the Context of a System-of-Systems](#)
Craig Lawton
- [Modeling the Application of Prognostics and Health Management in Large-Scale Enterprise Level Logistic Simulations](#)
Kimberly Welch

MA-10: Graphs and Networks 1

- [On Hamiltonian Properties of Locally Connected Graphs with Bounded Vertex Degree](#)
Valery Gordon, Yury Orlovich, Chris Potts, Vitaly Strusevich
- [The Best Upper Bound For the Randic Index of Trees](#)
Ljiljana Pavlovic, Marina Stojanovic
- [Solution methodologies for the classical assignment problem](#)
Grant van Dieman, Jan van Vuuren, Jaco Roux

MA-11: Berth Allocation in Container Ports

- [Enriching the Berth Allocation Problem](#)
Rowan Van Schaeren, Wout Dullaert, Birger Raa
- [Berth Allocation and the Quay Crane Resource](#)
Frank Meisel, Christian Bierwirth
- [Optimal Multiobjective Berth Allocation](#)
Maria Boile, Sotirios Theofanis, Michael Golias
- [Berth allocation at multi-berth container terminals](#)
Zheng Tong, Jiyin Liu

MA-12: Finance: Dynamic models

- [The Optimal Timing of Maintenance Investments under Uncertainty](#)
Thomas Yeung
- [Stochastic Dynamic Model of Transmission Investments in Radial Networks](#)
Enzo Sauma
- [Dynamic Asset Allocation for Hedging Downside Risk](#)
Gerd Infanger

- [Capital Investment with Adjustment Costs: The Role of Regime Shifts and Learning](#)
Tony Berrada

MA-13: Finance: Applications

- [AN ECONOMETRIC STUDY OF CURRENCY CRISES IN DEVELOPING ECONOMIES: THE ZIMBABWEAN CASE](#)
Caston Sigauke
- [SOUTH AFRICAN BANKING-STRIVING TOWARD AN OPEN MARKET ENVIRONMENT](#)
Dave Masterson
- [Assessing Impact of Liberalization on the Efficiency of Indian Public Insurers](#)
Subir Sen
- [Portfolio Management Using Fuzzy Linear Programming In Informal Lending :The Case Of Paddy Micro Investment](#)
Tabitha Mundia

MA-14: DEA: AHP / MCDM 1

- [AN APPLICATION OF THE AHP METHOD TO ANALYZE ROAD PAVING-ROUTING ALTERNATIVES](#)
Mirian Buss Gonçalves, Christiane W. Nogueira
- [A Comparison among Dominant AHP, similar Dominant models and ANP](#)
Eizo Kinoshita
- [Tests of Column Averaging for MCDM Ratios](#)
William Wedley, Eng Choo

MA-15: DEA Theory: New developments 1

- [Evaluation of research in efficiency and productivity: Past and future](#)
Ali Emrouznejad
- [Hedge Funds Performance Appraisal: A comparison of different nonparametric approaches](#)
Anne Vanhems, Nicolas Nalpas, Laurent Germain
- [Higher order accuracy in DEA using perturbation approximation](#)
NGOIE KIBAMBE, Steve Koch

MA-16: Tutorial in Supply Chain Modeling

- [Tutorial in Supply Chain Modeling](#)
David Simchi-Levi

MA-17: Simulation

- [A New Statistical Procedure for Validation of Simulation Models](#)
Robert Sargent
- [Patient Flow Simulation and Optimization](#)
Leyuan Shi
- [Derivative Estimation for Stochastic Activity Networks](#)
Michael Fu

MA-18: Survivable Network Design

- [The K-edge-connected 3-Hop constraint network design polyhedron](#)
Bernard Fortz, Quentin Botton, Luis Gouveia
- [Path Generation Issues in Survivable Network Design Problems](#)
Michal Pioro, Tomasz Sliwinski, Michal Zagozdzon, Włodzimierz Ogryczak, Mateusz Dzida
- [Survivable Network Design with Uncertain Traffic Requirements](#)
Fanie (SE) Terblanche, Roland Wessály,

Monday, 10:00 AM - 11:00 AM

MB-1: Official opening of IFORS 2008 Triennial Conference

- [The World and South Africa in the 2010s: the latest](#)

Monday, 11:30 AM - 1:00 PM

MC-1: Vehicle Routing I

- [A well-scalable metaheuristic for large-scale fleet size and mix vehicle routing problem with time windows](#)
Olli Braysy, Pasi Porkka, Wout Dullaert
- [A tabu search for an inventory routing problem](#)
, Luca Bertazzi, Alain Hertz, Maria Grazia Speranza
- [A Hybrid Monte Carlo Local Branching Algorithm for the Single Vehicle Routing Problem with Stochastic Demands](#)
Michel Gendreau, Walter Rei, Patrick Soriano
- [A Polyhedral Study for the Time-Dependent Travelling Salesman Problem](#)
Juan Jose Miranda Bront, Isabel Méndez-Díaz

MC-2: OR-in-Development 2

- [Robust multi-objective optimization for water distribution system design using a meta-meta-heuristic](#)
Jan van Vuuren, Darian Raad, Alexander Sinske
- [Visitor profile, satisfaction levels and clustering of tourists for decision making in Michoacan, Mexico](#)
Marco Serrato, Juan Tello, Angel Diaz
- [An Application of DEA to Measure the Efficiency of Airports](#)
xinhui ren, Zhao Yifei

MC-3: Resource Optimization in Railway Companies

- [Integration of Integer Programming and Constraint Programming for rescheduling trains after disruptions](#)
Rodrigo ACUNA-AGOST, Dominique Feillet, Serigne Gueye, Philippe Michelon
- [A mathematical approach for building robust railway rolling stock circulations](#)
David De Almeida, Christian Weber
- [Approximation of generic Locomotive Assignment Problems](#)
sadki jalila, Laurent Alfandari, Anass Nagih, agnès plateau

MC-4: Applications of Operations Research in Mining 1

- [Navigable Decline Networks](#)
Doreen Thomas
- [Open Pit Mine Sequencing](#)
Alexandra Newman, Kevin Wood
- [Long Term Optimization of the Production Chain in Open-pit and Underground Copper Mines](#)
Andrés Weintraub, Felipe Caro

MC-5: Lessons from OR Consultancy Practice 2

- [Intellectual Property and Operations Research](#)
Ashok K Mittal
- [The OR toolbox used within Climate Change Adaptation](#)
Karin Mossberg
- [Some Key Factors for Successful OR Consultancy](#)
John Ranyard

MC-6: Production Lines

- [Assignment of cross-trained workers to tasks on a production line](#)
Lieschen Venter, Stephan Visagie
- [Optimizing U-Lines: Use of Single-Pass Heuristics](#)
Chun Hung Cheng

- [Reducing Labor Requirement in Bucket Brigades](#)
Yun Fong Lim
- [Lean Manufacturing implemented at a fish canning plant](#)
Leo Tomé, Henk Hunter

MC-7: Gradients and Constraints

- [Gradient only optimization for discontinuous functions](#)
Daniel Wilke, Schalk Kok
- [Gradient algorithms with fast asymptotic rates for quadratic optimization](#)
Anatoly Zhigljavsky
- [Predictor-corrector method applied to the AC active-reactive optimal power flow problem using nonlinear corrections in all optimality conditions](#)
Roy Wilhelm Probst, Aurelio Oliveira, Secundino Soares, Adriano Thomaz
- [FRACTIONAL OBJECTIVE FUNCTION AND SENSITIVITY ANALYSIS FOR DIFFERENT SOLVING ALGORITHMS](#)
Marija Cileg, Tibor Kis

MC-8: Facilitated Multi-Criteria Decision Analysis

- [The importance of problem structuring for MCDA: avoiding lost CAUSEs](#)
Valerie Belton
- [Applied Value-Focused Thinking](#)
Ralph Keeney
- [Facilitation in Problem Structuring Methods: lessons for MCDA?](#)
Jonathan Rosenhead
- [Action-Researching MCDA](#)
Gilberto Montibeller

MC-9: Reliability

- [Software Reliability Modelling](#)
Freddy K. Nailana
- [A modified optimum designing of k-out-of-n Redundant System in the presence of Common-Cause Failures.](#)
Anandaraja chari
- [AVAILABILITY AND MEAN TIME TO FAILURE OF MISSION-BASED SYSTEMS](#)
Bora Cekyay, Suleyman Ozekici
- [Reliability Equivalence of a Series System](#)
SANJAY CHAUDHARY

MC-10: Graphs and Networks 2

- [Graph isomorphism through QAP variance](#)
Paulo Boaventura-Netto
- [Euclidean Jordan algebras and necessary conditions for the existence of a strongly regular graph](#)
Luís Vieira
- [On characterizing b-perfect graphs](#)
Meriem Mechebbek

MC-11: Container Port Design and Optimization

- [A Simulation Optimization Framework for Container Port Operation](#)
Ek Peng Chew
- [Integrating a design optimizer in a container port simulator](#)
Szu Hui Ng, Loo Hay Lee
- [Port container terminal design perspective and relevant operational issues for the mega-containership era](#)
Akio Imai
- [Uncertainty in container terminal operations](#)
Panagiotis Angeloudis,

MC-12: Finance: Optimisation models

- [Using Mathematical Programming to optimise recovery placements](#)
Margarete Bester
- [From Scenarios to Lattices: Flexibility in Portfolio Optimisation](#)
Henri Hytönen, Toni Jarimo
- [Multinational tax planning](#)
J. E. Beasley

MC-13: Finance: Financial modelling

- [Modelling the collection process for unsecured consumer loans](#)
Lyn Thomas, Anna Matuszyk, Adiel de Almeida Filho, Christophe Mues
- [A new system of multivariate distributions: fitting models to financial data](#)
Alexander Belgorodskiy, Rose Baker
- [Financial Model to Efficient Water Allocation between the Municipal and Agricultural Sectors](#)
Erez Braude, Zilla Sinuany-Stern, Gideon Oron, Gideon Oron
- [Merton models or credit scoring: modelling default of a small business](#)
Galina Andreeva, Jake Ansell, Shu-Min Lin

MC-14: DEA: Applications 1

- [Developing evaluation models in organizations using DEA](#)
Bitá Analui, Behrad Analui

- [Data Envelopment Analysis and Organizational Performance](#)
Amilcar Serrao
- [Impact of Investment Climate on Efficiency of Manufacturing Firms in Hanoi and Ho Chi Minh City - DEA approach](#)
Thang Dao Nguyen

MC-15: DEA Theory: New developments 2

- [Sensitivity analysis of the proportionate change of a subset of outputs or/and inputs in DEA](#)
Juergen Guddat, Luka Neralic, Oliver Stein
- [Smoothing the BCC-DEA frontier: the general case](#)
João Carlos Soares de Mello, Flavia Nacif, Lidia Angulo-Meza
- [The use of the MORO-D model in a DEA problem with non-discretionary variables](#)
Lidia Angulo-Meza, João Carlos Soares de Mello, João Clímaco
- [On Data envelopment analysis of both real and integer-valued inputs and outputs](#)
Reza Kazemi Matin

MC-16: Supply Chain Modeling

- [Trust and Forecast Sharing in Supply Chains](#)
Ozalp Ozer, Karen Zheng, Kay-Yut Chen
- [Supply Chain Coordination and Influenza Vaccination](#)
David Simchi-Levi, Stephen Chick, Hamed Mamani
- [Rationing of HIV treatment in resource constrained settings under supply uncertainty](#)
Sarang Deo, Charles Corbett

MC-17: Discrete Event Simulation

- [Inside Discrete-Event Simulation Software: How It Works and Why It Matters](#)
Thomas J. Schriber, Daniel T. Brunner

MC-18: Trees and Flows

- [Routing Optimization of Networks based on Multiple Spanning Trees](#)
Dorabella Santos, Amaro de Sousa, Filipe Avelos
- [Models for the Prize-collecting Steiner Tree Problem with Node Degree Dependent Costs](#)
Luis Gouveia, Pedro Moura
- [On Complexity of a Multicommodity Flow Problem with Path Diversity](#)
Artur Tomaszewski, Michal Pioro

Monday, 2:00 PM - 3:30 PM

MD-1: Vehicle Routing II

- [A Branch-and-Price Approach for Pick-up and Delivery with Transfers](#)
Pablo A. Rey, Cristián Cortés, Michel Gendreau
- [Resources Requirement and Routing in Courier Service](#)
Ka Yuk Carrie Lin
- [An Exact Solution Approach for the Prize Collecting](#)
Mohamed Haouari, Hanif Serali
- [Hybrid Predictive Control for the Dynamic Pick-up and Delivery Problem with Variable Fleet Size Based on an Evolutionary Multi-objective Optimization Approach](#)
Cristián Cortés, Doris Sáez, Alfredo Núñez, Michel Gendreau

MD-2: OR-in-Development 3

- [A Genetic Algorithm Metaheuristic for a Multi-stage Hostel Space Allocation Problem](#)
Aderemi Adewumi, Ojo Ayeni, Ebunoluwa Fasina, Montaz Ali
- [Research on measuring and controlling fishing capacity for Chinese inshore fleets by DEA method](#)
Zheng Yi, Zhou Ying-qi
- [Farming system performance and water use efficiency in the Tunisian semi-arid region: Data Envelopment Analysis Approach](#)
Fraj Chemak

MD-3: Optimisation and Railroad Scheduling Problems

- [A Set Packing Model For Train Routing](#)
Richard Lusby, Jesper Larsen, David Ryan, Matthias Ehrgott
- [The Train Driver Recovery Problem - a Set Partitioning Model and Solution Method](#)
David Ryan, Natalia J. Rezanova
- [A Decomposed Model for the Rolling Stock Recovery Problem](#)
Julie Groth, Jesper Larsen, Jens Clausen

MD-4: Applications of Operations Research in Mining 2

- [Long-Term Open Pit Mine Production Planning: A Review of Models and Algorithms](#)
javad gholamnejad
- [Challenges in the Practical Implementation of Planning Models in the Mining Industry](#)
Patrick Veldhuizen

MD-5: OR and Ethics1

- [Ethics of OR in developing countries: Between norm and methodology](#)
Jose-Rodrigo Cordoba-Pachon

- [OR, ethics and reserach ethics committees](#)
Leroy White
- [A Meta-Model for Values and Ethics](#)
Cathal Brugha
- [Soft and Hard OR Support for Informal Shop Networks \(Spaza shops\)](#)
Jean-Marie SABWA, Theodor Stewart

MD-6: Sports and OR I

- [A DEA approach to selecting line-ups of a baseball team](#)
Nobuyoshi Hirotsu, Tohru Ueda
- [Referee assignment in sports leagues: Exact and approximate multi-objective approaches](#)
Alexandre Duarte, Celso Ribeiro
- [Bender's Approaches to Sports Scheduling](#)
Michael Trick

MD-7: Knapsack and Layout

- [Solving Multidimensional Knapsack Problems with Generalized Upper Bound Constraints by Adaptive Memory Projection](#)
Vincent Li, Yun-Chia Liang
- [Feasibility of Integer Knapsacks and the Frobenius number](#)
Iskander Aliev
- [A new method for solving a layout problem using group technology approach](#)
Naim Yalaoui, Halim Mahdi, Lionel AMODEO, Farouk Yalaoui

MD-8: Multiobjective Optimization Methods

- [Primal and Dual Approximation Algorithms for Multiobjective Linear Programming](#)
Matthias Ehrgott, Lizhen Shao
- [Solving the bi-objective integer minimum cost flow problem](#)
Andrea Raith, Matthias Ehrgott
- [Multiobjective Exam Scheduling: Modelling, Recent Developments and a Case Study](#)
Mujgan Sagir
- [Branch and bound algorithm for the 0-1 knapsack problem with multiple objectives](#)
Julien Jorge, Xavier Gandibleux

MD-9: Spare parts and logistics

- [Periodic stock control heuristics for spare parts: analysis and empirical investigation](#)
Aris Syntetos, M. Zied Babai
- [Distributional assumptions for parametric forecasting of intermittent demand](#)
M. Zied Babai, Aris Syntetos, Nezh Altay

- [Inventory Control of Spare Parts in the Final Phase](#)
Morteza Pourakbar, Rommert Dekker

MD-10: Graphs and Networks 3

- [Twin-constrained Hamiltonian Threshold Graphs](#)
Kai Helge Becker
- [Transitive reduction in Bidirected Graphs](#)
bessouf ouahiba, Kader KHELLADI
- [The Euclidean Steiner ratio](#)
Pieter de Wet
- [Reliability of Tree Decomposition Graph Model Networks](#)
BOUTICHE MOHAMED AMINE

MD-11: Risk and Inventories in Supply Chains

- [New Policies for the Stochastic Inventory Control Problem with Two Supply Sources](#)
, Sridhar Seshadri, Anshul Sheopuri
- [Comparison of Models for Managing Profit Risk in Inventory Systems](#)
Candace Yano, ,
- [A Censored Newsvendor Model with Unnormalized Probabilities](#)
, Suresh Sethi, Metin Cakanyildirim

MD-12: Finance: Markov models

- [Portfolio Management in a Stochastic Market Using HARA Utility Functions](#)
Ethem Canakoglu, Suleyman Ozekici
- [Portfolio management: Hidden Markov Models](#)
Ethem Canakoglu, Suleyman Ozekici

MD-13: Finance: Revenue management and pricing

- [On the Structural Properties of the Single Product Multiple Demand Classes Inventory Control Problem](#)
Seray Aydin, Fikri Karaesmen, Yalcin Akcay
- [Dynamic Pricing of Digital Knowledge Commodity Considering Competition from Congener Commodity in Electronic Commerce](#)
Zhe Guo, Jiafu Tang, Dingwei Wang, Shixin Liu, Junxin Wu
- [Price Discrimination with Multi-Part Tariffs](#)
Hemant Bhargava
- [Price and Capacity Competition in the Presence of Strategic Consumers](#)
Yossi Aviy, Yuri Levin, Mikhail Nediak

MD-14: DEA: Applications 2

- [OPTIMISING EFFICIENCY GAINS - A SITUATIONAL ANALYSIS OF TECHNICAL EFFICIENCY OF DISTRICT HOSPITALS IN GHANA](#)
Caroline Jehu-Appiah
- [PRODUCTIVITY AND ENVIRONMENTAL PERFORMANCE: AN ANALYSIS BASED ON BOOTSTRAPPED DEA AND MALMQUIST TFP INDICES](#)
Emilio Galdeano
- [A new approach for classifying the non-homogeneous decision making units using DEA](#)
arash aliakbari, Mohammad Reza Alirezaee, Ahmad Makui
- [the evaluation of performance of top 50 petrochemical companies of the world and the comparison of iran's industrial petrochemical by using DEA models](#)
afshin afshar, maryam zohourian

MD-15: DEA Theory: Fuzzy DEA

- [Ranking Some B-Schools – A Fuzzy Approach](#)
Sree kumar, Gokulananda Patel
- [Ranking of Units on the Overall Profit Efficiency in DEA with Fuzzy Data](#)
mohsen rostamy-malkhalifeh
- [Fuzzy GDEA Model For Ranking Of DMUs](#)
Mahnaz Ahadzadeh Namin
- [Measure of efficiency in DEA with fuzzy input-output](#)
hilda saleh

MD-16: Resource Scheduling and Dispatching in Container Ports

- [Vehicle Dispatching for Transshipment Hub Operations](#)
Loo Hay Lee
- [Strategic terminal allocation and time scheduling of cyclically arriving container vessels](#)
Jan Tijmen Udding, Maarten P.M. Hendriks
- [Scheduling of Quay Cranes in Container Terminals](#)
Christian Bierwirth, Frank Meisel
- [An implementation of prioritized path planning for a large fleet of autonomous straddle carriers](#)
Haye Lau, Tim Pratley, Dikai Liu, Shoudong Huang, Daniel Pagac

MD-17: Optimization Software

- [SYMCLIP - System for Multi-Criteria Linear Programming](#)
Veronika Skocdopolova, Josef Jablonsky
- [Integrated Manufacturing Planning and Scheduling using ILOG Plant PowerOps](#)
Julien BRITON
- [Global Optimization with GAMS](#)
Lutz Westermann, Michael Bussieck

- [OPTeX Mathematical Modeling System](#)
Jesus Velasquez

MD-18: Meta-heuristics for Routing in Networks

- [A Taboo based approach for multi-constrained multicast routing](#)
Miklos Molnar, Abdelfettah belghith, Naouel Ben Ali
- [Metaheuristics for Routing in Telecommunication Networks](#)
Noor Hasnah Moin
- [A memetic algorithm for optimizing routing in networks using exponential flow splitting](#)
Mauricio Resende

Monday, 4:00 PM - 5:30 PM

ME-1: Routing Problems

- [An Improved Tabu Search Heuristic for the Open Vehicle Routing Problem with Soft Time Windows](#)
Leon Li, Zhuo Fu, Richard Eglese
- [A metaheuristic approach to the routing of security guards](#)
Elias Jakobus Willemse, Johan Joubert
- [An Efficient Time and Space K Point-to-Point Shortest Simple Paths Algorithm](#)
Antonio Sedeño-Noda, Carlos González-Martín
- [GREEN LOGISTICS: AVOIDING CONGESTION IN VEHICLE ROUTING AND SCHEDULING](#)
Richard Eglese, William Maden

ME-2: Economic Development: Modelling and Finance

- [Development of resource utilization of construction production in Latvia](#)
Ineta Geipele, Janis Vanags
- [An Empirical Analysis of Capital Structure](#)
Agustinus Prasetyantoko, Alain Chevalier
- [DEA Methods in the Moldavian Economy studding.](#)
Tkacenko Alexandra
- [Performance and Budgeting](#)
Paul Randall

ME-3: Timetabling and Scheduling in Railways

- [Disruption Simulator in Railway timetabling for Empirical Robustness Assessment](#)
FEDERICO BARBER, MIGUEL A. SALIDO, LAURA INGOLOTTI, ANTONIO LOVA, PILAR TORMOS

- [Analytical Assessment of Timetable Robustness](#)
MIGUEL A. SALIDO, FEDERICO BARBER, LAURA INGOLOTTI, PILAR TORMOS,
ANTONIO LOVA
- [Periodic timetable scheduling tool used in French railways](#)
Christian Weber

ME-4: Applications of OR in Agriculture

- [A Bulb Acquisition Planning Model for a Chilean Lily Flower Enterprise](#)
Alejandro Mac Cawley, Sergio Maturana, Manuel Aspillaga
- [A Visualization Aid for Informal Rescheduling](#)
Victor Perl, Sergio Maturana
- [A decision support model for the choice of cultivars of deciduous fruit on a Western Cape farm](#)
Wim Gevers
- [Sales and operations planning: issues for the forest product industry](#)
Sophie D'Amours

ME-5: OR and Ethics

- [Role of the Dialogue and Arguments in Decision - Making](#)
Bernard Reber, Emmanuel Picavet, RAZAFIMAHATOLOTRA Dawidson, Caroline Guibetlafaye
- [On research-cooperation: defection, deception, opacity and moral philosophy](#)
Haavard Koppang
- [Ethical issues in tracking cell phones at an event](#)
Hans W. Ittmann, Antony Cooper, Theodoulos Stylianides, Peter Schmitz, Chris Elphinstone

ME-6: Sports and OR II

- [An exploration of profitable betting strategies based on knowledge of the proportion of informed and noise traders operating in a horserace betting market](#)
Ming-Chien Sung, Johnnie Johnson
- [Toward an explanation of the persistence of biased behaviour in a market for state contingent claims+](#)
Johnnie Johnson
- [Is the March Madness Seeding Process Consistent?](#)
James Cochran, Kevin James

ME-7: Linear Programming

- [Global optimization of a generalized linear program](#)
Claudio Sodini, Riccardo Cambini
- [A fast and robust parameter choice for interior point methods](#)
Aurelio Oliveira, Fernando Villas-Bôas, Clovis Perin

- [Computer experiments: Synergies between linear programming, experimental design and statistical metamodels](#)
Diki Langley, Roelof Coetzer
- [A Strongly Polynomial-time Algorithm for Linear Programming](#)
Hsin-Der Chen

ME-8: Multiple Criteria Decision Aiding: Sorting problems

- [Extension of the FlowSort method to multiple reference profiles for the definition of the categories](#)
Philippe Nemery
- [Relational Multicriteria Clustering : A new model](#)
Stefan Eppe, Yves De Smet
- [Electre Tri-C: A Multiple Criteria Ordinal Classification Method Based](#)
José Rui Figueira, Juscelino Almeida-Dias, Bernard Roy

ME-9: Maintenance 1

- [Managing Warranted Systems Sold with Additional Service and its Optimal Maintenance Policy](#)
Wee Meng Yeo
- [Multicriteria decision approaches for selection of preventive maintenance intervals in the context of service production systems](#)
Adiel Teixeira de Almeida, Cristiano Cavalcante
- [Preventative maintenance regimes under machine obsolescence](#)
Diego Ruiz-Hernandez, Christopher Kirkbride

ME-10: Particular graphs: different results

- [cyclic regularity and hypercubes](#)
Nawel Kahoul
- [New upper bounds for the metric dimension of hypercubes](#)
Vera Kovacevic-Vujcic, Jozef Kratica, , Dragos Cvetkovic
- [New results on an operation of closure in claw free graphs](#)
Benmeziane Zineb
- [On k-representability of some permutation groups.](#)
Fatima Affif Chaouche,

ME-11: Container Shipping Flow

- [Optimal Fleet Planning with Cargo Demand Uncertainty for Liner Shipping](#)
Meng Qiang, Tingsong Wang, Tien Fang Fwa
- [Modelling of ship traffic in container port and performance evaluation](#)
Branislav Dragovic

- [Container Shipping Network Problems with Container Management and Competition among Shipping Companies for Mega-ship Era](#)
Koichi Shintani, Akio Imai, YingLai Wang

ME-12: Finance: Portfolio optimisation

- [Handling Second Order Stochastic Dominance through Cutting Plane Representations of CVaR](#)
Diana Roman, Gautam Mitra, Csaba I. Fabian
- [A Mixed Integer Programming Approach to Dynamic, Multi-Criteria Portfolio Optimization](#)
Bartosz Sawik
- [FSD portfolio optimality test](#)
Milos Kopa, Thierry Post
- [Portfolio Selection with Higher Moments: A Robust Non-parametric Efficient Frontier](#)
emmanuel jurczenko, thierry chauveau, ghislain yanou

ME-13: Finance: Stocks and bonds

- [Limit Orders Quotations, Transactions Costs, and Trading Activity in Equity Futures in an Electronic Trading Environment](#)
Lorne Switzer, Haibo Fan
- [An Investigation in the Autoregression of Implied Volatility in Selected South African Stocks](#)
Olufemi Adetunji, Venkata Yadavalli
- [Revisiting the CPC Methodology: An Analysis of Bond Yields in Germany, the UK, and the USA](#)
Januj Juneja
- [Expected Return, Liquidity Risk, and the Contrarian Strategy: Investigation of Tokyo Stock Exchange Firms](#)
Hitoshi Takehara

ME-14: DEA: AHP / MCDM 2

- [Text Mining Applied on Business Decision Making](#)
Fabiano Santos, Adriana Mattedi, Roberto Costa, Roberto Silva, Carlos Tamaki, Fábio Ricotta
- [Systematic Ranking of Building Seismic Retrofit Requirement with Different Scenarios](#)
Kemal B. Hanoglu, Asli Pelin Gurgun
- [MULTIPLE CRITERIA DECISION MAKING MODELING: AN AHP METHOD APPLICATION TO PRODUCTION'S LAYOUT](#)
Ricardo Fino, Fernando Marins, Valério Salomon
- [Performance Indicators for the Multiple Criteria Decision Making](#)
Valério Salomon

ME-15: DEA: Applications 3

- [Enhancing Decision-Making in SMEs with DEA](#)
Ulrich Bodmer, David Roger Vaughan, Peter Wagner

- [Using Data Envelopment Analysis for Efficiency Measurement in Public Utilities](#)
Adriana Marcucci, Angela Ines Cadena, Juan F. Perez, Fernando Palacios
- [Success Measure of Projects Using DEA](#)
Arik Sadeh, Dov Dvir

ME-16: Assortment and Pricing Models

- [Assortment planning with vertically differentiated products](#)
Dorothee Honhon
- [Dynamic Assortment Planning](#)
Rene Caldentey, Felipe Caro
- [Dynamic Pricing and Inventory Control in a Make-to-Stock Queue with Information on the Production Status](#)
Frank Y Chen

ME-17: Modeling Languages and Solver Interfaces

- [The Optimization Services Project on COIN-OR: Progress and Plans](#)
Robert Fourer, Jun Ma, Kipp Martin
- [Extended Mathematical Programming in GAMS](#)
Jan-Hendrik Jagla, Michael Ferris,
- [New Stochastic Programming features in the MPL Modeling Language](#)
Bjarni Kristjansson

ME-18: Wireless Networks

- [System Optimization for Efficient Broadcasting in Wireless Ad Hoc Networks](#)
Sibel Salman, Cagdas Atici, Volkan Dedeoglu, Oguz Sunay
- [A multi-commodity model for power-preserving routing in ad hoc mobile networks](#)
Yskandar HAMAM
- [Cost-effective Designs of Fault-tolerant Radio Access Networks in the GSM System](#)
Xujin Chen, Bo Chen

ME-19: Optimization Models

- [A Hybrid Approach to Convoy Movement Planning](#)
Lucas Agussurja, Ramesh Thangarajoo, Hoong Chuin Lau
- [Heuristic and exact solution methods for the dynamic weapon target assignment problem](#)
Francois du Toit, Jan van Vuuren, Jaco Roux
- [Fire Sequencing Problem for Discrete-damaged Field Artillery](#)
Jonghyuck Park, Sung-Shick Kim, HaiJoon Ryu
- [Application of the Resource Allocation problem in Ammunition Replenishment](#)
Geertien Venter

Tuesday

Tuesday, 8:00 AM - 9:30 AM

TA-1: Economic Development: Optimisation and Heuristics

- [Robust multi-objective optimization of water distribution systems using a meta-meta-heuristic](#)
Darian Raad, Jan van Vuuren
- [Scheduling Teaching Facilities in a Developing Country](#)
Folake Olubunmi Akintayo
- [Model of Investment Planning for Expansion of the Brazilian oil industry](#)
Gabriela Ribas,
- [Applying multiple criteria optimization techniques to issues of a transition country](#)
Silvija Vlah, Kristina Soric, Visnja Vojvodic Rosenzweig

TA-2: The development of healthcare performance measures

- [Does Measurement Improve Performance: The Value of IT Performance Measurement](#)
Kevin Leonard
- [The determinants of changes in hospital efficiency following from the Lombard health care reform. An application of the Malmquist TFP index](#)
Giuditta Callea
- [OR in Excellent Organization Management: FMEA Approach](#)
Tahereh Naseri Bouri Abadi
- [Cost-effectiveness of spinal cord stimulation for chronic pain of neuropathic origin in the UK](#)
Alejandra Duenas, Emma Simpson, Jim Chilcott, Michael Holmes

TA-3: Optimization Modeling

- [Network flow methods for best approximation of exact quotas in biproportional apportionment](#)
Paolo Serafini, Bruno Simeone, Bruno Simeone
- [Applying Mathematical Modeling Approaches for Investigating Japanese Food Supply Security System](#)
Tatsuo Oyama
- [A locate-allocate model for interurban traffic police vehicles](#)
Mali Sher, Nicole Adler, Shalom Hakkert, Jonathan S.H. Kornbluth

TA-4: Applications of OR in Forestry

- [Soft Systems Approach in Facilitating Regional Forest Policy Processes](#)
Teppo Hujala, Jukka Tikkanen, Annika Kangas, Pekka Leskinen, Leena Leskinen

- [A new method for robust planning in rolling horizon planning](#)
Mikael Rönnqvist, David Bredström
- [Yield Frontier Analysis of Forestry Standing Inventory](#)
Stuart Mitchell

TA-6: OR Education 1

- [Preparing students for the world of OR work: Lancaster's experience](#)
Graham Rand, John Ranyard
- [Six sigma in a tertiary education environment](#)
Ilze Du Plooy, CJ Swanepoel, MF Immelman, Willemien Van Hoepen
- [Cases for teaching revenue management](#)
Peter Bell

TA-7: Integer Programming

- [Integer programming models for the optimization of promotion campaigns](#)
Fabrice Talla Nobibon, Frits Spieksma, Roel Leus
- [Branch and Bound with Penalties method for integer quadratic fractional programs](#)
Nacera Maachou, Mustapha MOULAÏ
- [Solutions diversification in a column generation scheme](#)
Nora Touati, Lucas Létocart, Anass Nagih
- [A Bin Packing Approach to the Batch Annealing Process](#)
Abdelghani Bouras

TA-8: Multicriteria Applications

- [Using MCDA to measure poverty](#)
Vivien Kana, Alexis Tsoukiàs
- [Participatory Decision Processes and Decision Support](#)
Katherine Daniell, Chabane Mazri, Alexis Tsoukiàs
- [Modelling Biobjective User Equilibrium on a Toll Highway Network](#)
Judith Y.T. Wang, Andrea Raith, Matthias Ehrgott
- [Goal Programming for benchmark selection in DEA](#)
Theodor Stewart

TA-9: Maintenance 2

- [Risk-averse maintenance](#)
Rose Baker
- [An Operations and Production Management Approach to Breakdown Maintenance: The Banking Industry's Experience](#)
HEZEKIAH OLADIMEJI

- [Fuzzy group decision making support for technical infrastructure maintenance](#)
Miroslaw Dytczak, Grzegorz Ginda
- [Optimal Preventive Maintenance Policies with Imperfect \(or Perfect\) Repairs](#)
Ernie Love

TA-10: Project Scheduling: Resource Allocation

- [Allocating resources to R&D projects in competitive environments](#)
Boaz Golany
- [Discrete Time/Resource Trade-Off Problems with Variable Resource Allocation](#)
Mareike Bauer
- ["Performance Management: A Turn-Around Conceptual Model for Decision-Making in Projects Undergoing Changes in Scope"](#)
Tatiana Bouzdine - Chameeva
- [Upon One Strategic Model in Project Management](#)
Avner Ben-Yair, Dimitri Golenko-Ginzburg
- [Selection and planning of downsizeable projects under uncertainty](#)
Roel Leus, Jade Herbots, Willy Herroelen

TA-11: Health Care Operations

- [Improving Patient Experience: ETC Model for Designing Service Systems](#)
Sriram Dasu
- [Supply Chain Interventions for Improving Access to Malaria Medicines](#)
Prashant Yadav
- [Improving Supply Chain Performance by Process Innovation in a Health Care System](#)
N. K. kwak, Chang W. Lee

TA-12: Finance: Valuation modelling

- [Application of Automated Valuation Models in South Africa](#)
Anthony Miller
- [Repeat-Sales modelling for predicting house prices and constructing a housing index](#)
L. Paul Fatti

TA-13: Finance: Revenue management

- [Revenue Management for Professional Services](#)
Cornelia Schoen
- [Estimating Airline Revenue with Large-Scale Agent-Based Simulation](#)
Roger Parker
- [Dynamic Cross-Selling and Pricing with Promotional Products](#)
Ferda Tanguner, E. Lerzan Ormeci, Zeynep Aksin Karaesmen

- [Theory and Practice of Revenue Management in a Railway Passenger Company](#)
Said Khedmatlu, Mohsen Pour Seyyed Aghae

TA-14: DEA: Applications in Transport

- [A hierarchical programming model for the evaluation of transit network configurations using DEA](#)
Esteve Codina, Mohamed Salim Guenatri
- [Comparative Study on Performance Measurement of Philippine Seaports](#)
NANCY ELERIA
- [An Application of DEA to Measure the Efficiency of Airports in Middle-west China](#)
xinhui ren, yifei zhao
- [Measuring the efficiency of Brazil's interstate bus companies with DEA](#)
Antonio G.N. Novaes

TA-15: Railway Network Design

- [Stochastic Urban Rapid Transit Network Design](#)
Ángel Marín, Bouza Gema, Carlos Bouza
- [Customer-oriented Robust Railway Network Design](#)
Juan A. Mesa, Federico Perea
- [Using Flow Reliability Conditions in Robust Rapid Transit Network](#)
Antonio J. Lozano, Federico Perea, Ángel Marín, Juan A. Mesa

TA-16: Container Storage Planning

- [Container storage planning problem at the marine terminal which mega-containerships call](#)
Etsuko Nishimura, Akio Imai
- [Classification of Container and Resources into Centers](#)
Hung Hui-Chih
- [The Ship Planning Problem at a transshipment container terminal](#)
M. Flavia Monaco, Sammarra Marcello
- [Loading optimization of identical boxes into containers via Tabu Search](#)
Guilherme Poli, Vitoria Pureza

TA-17: Software Demos I (GAMS/AMPL)

- [Recent Enhancements in GAMS](#)
Jan-Hendrik Jagla, Lutz Westermann
- [Enhanced Solver Support in the AMPL Modeling Language](#)
Robert Fourer, David M. Gay

TA-18: Telecommunications

- [A Mathematical Model for Enabling Physical Server Consolidation](#)
Sumit Bose
- [A simulated annealing approach for the replica placement problem in content delivery networks](#)
André Dahlmann, Rainer Kolisch
- [Analysis and work optimization of multi-server system with variable number of devices and losses](#)
Aleksandr Ivaneshkin, Dorovskykh Anatoliy
- [Analysis of Price Selection in Priority Service Networks](#)
Sunju Park, Seungjae Han

TA-19: Facility Location

- [A location model with preferences](#)
Sergio García Quiles, Alfredo Marín
- [Locating Lottery Retail Stores in Barcelona: A Consumer Oriented Approach](#)
Daniel Serra, Vladimir Marianov
- [Using reduced formulations with modern heuristics for solving large scale hub location problems](#)
Enrique Dominguez
- [A computational comparison of several formulations for the multi-period incremental service facility location problem](#)
Celeste Pizarro Romero, Antonio Alonso-Ayuso, Elena Fernandez, Laureano Fernando Escudero, Maria Albareda Sambola, Yolanda Hinojosa

TA-20: Recent Advances in Scheduling

- [A Variable Neighbourhood based Heuristic for the Heterogeneous Fleet Vehicle Routing Problem](#)
Arif Imran, Said Salhi, Niaz Wassan
- [Branch-and-Bound Based Heuristics for Minimizing the Total Completion Time in One Machine scheduling problem subject to release dates](#)
Talel Ladhari, Mohamed Ali Rakrouki
- [Evaluation of Heuristics for the Weighted Tardiness Single Machine Scheduling Problem with Periodic Maintenance](#)
Ibrahim H. Osman, hocine belouadah, Krzysztof Fleszar

Tuesday, 10:00 AM - 11:00 AM

TB-1: Supply Chain Management

- [The Role of Operations Research in Lean Supply Chains](#)
H. Donald Ratliff

Tuesday, 11:30 AM - 1:00 PM

TC-1: Economic Development: Strategic Planning and Management

- [Conceptual maps for effective implementation of IT industry development strategy in Korea](#)
Tae Hee Moon, So Young Sohn
- [Identifying and Ranking Critical Success Factors of the Nine Challenges in Malaysian Vision 2020](#)
Rafikul Islam
- [Relationship between the level of development and dimensionality of innovativeness](#)
Majda Bastiè

TC-2: Policy analysis using simulation experiments

- [A New Appointment Scheduling System in an Outpatient Clinic by Using the Queueing Network](#)
Seongmoon Kim, Sunju Park, Semin Sim
- [ON THE DECISIONS OF STAFFING AND TECHNOLOGY INVESTMENT FOR A HOSPITAL OFFERING TELEMEDICINE](#)
Sharafali Moosa, Hakan Tarakci, Zafer Ozdemir
- [Surgeon resource allocation using logistic regression and simulation](#)
Marie Persson, Jan Persson

TC-3: Multicriteria Decision Making

- [TRAFFIC ACCIDENT ANALYTICAL INFORMATION SYSTEM](#)
Dragana Becejski-Vujaklija, Boris Delibasic, Milija Suknovic
- [Providing decision support through multi-criteria classification / sorting methods](#)
Renee Koen
- [Applications of Operational Research to Refinements of Administrative Inspections](#)
Yuji Sato
- [Preferential procurement in South Africa: how many criteria?](#)
J C Pauw, Kobus Wolvaardt

TC-5: Scheduling - RCPS

- [Decomposition Method for Project Scheduling Problems with Adjacent Resources](#)
Jacob Jan Paulus, Johann Hurink
- [Multiobjective Particle Swarm Optimization for complex job shop scheduling](#)
Jacomine Grobler, Andries P. Engelbrecht, Venkata Yadavalli, Schalk Kok
- [An asymptotically exact approach for multiproject resource-constrained scheduling problem](#)
Ivan Rykov

TC-6: OR Education 2

- [A Business Gaming Simulation in Innovation and Technology Management](#)
Elmar Kiesling, Markus Günther, Christian Stummer
- [A model investigating the professional profile of the HE graduates. A case study for the Electrical engineers of TEI WM in Greece](#)
Nikolaos Matanas, Lazaros Tsikritzis, Athanasios Papavasileiou, Paraskevi Bouboureka
- [Ruminations from a Rookie MS/OR Professor](#)
Fredrik Odegaard

TC-7: Discrete Optimization

- [A new three index model and Branch&Cut algorithm for the Capacitated Vehicle Routing Problem](#)
Daniel Negrotto, Irene Loiseau, Julián Aráoz Durand
- [Additive bounds in Depth First Search algorithms for the ATSP](#)
Marcel Turkensteen, Jens Lysgaard
- [Two-Phase Pareto Local Search for MultiObjective Combinatorial Optimization Problems](#)
Thibaut Lust
- [Continuous and Discrete Global Optimization using Hit-and-Run](#)
Zelda B. Zabinsky

TC-8: MCDA and Performance Assessment

- [Prioritising Voices of Customer via Multiple Criteria Decision Modelling and Evidential Reasoning](#)
Jian-Bo Yang, Dong-Ling Xu, Xinlian Xie, Anil Kumar Maddulapalli
- [Conduct DEA-Oriented Performance Analysis in the Domain of MCDA](#)
Dong-Ling Xu, Jian-Bo Yang
- [Assessing the performances of decision making units in terms of their contributions to the whole system](#)
Yingming Wang, Jian-Bo Yang,
- [A Study of the Decision Process Based on Multiple Types of Evaluation in Chinese Academy of Sciences](#)
Xiaouxan Li, Guoliang Yang

TC-9: Quality I

- [study and implementation of six sigma solutions in a manufacturing industry-a practical approach](#)
nagineni naidu n v r
- [Innovative Approaches for Excellence in Uncertainty](#)
Ton van der WIELE, Jos van Iwaarden, Roger Williams, Steve Eldridge

- [USE OF WAGE INCENTIVES IN THE QUALITY IMPROVEMENT METHODS AS A MOTIVATIONAL TECHNIQUE](#)
Sami Ercan, Tolga Ezen
- [Designing a comprehensive set of service quality indicators for a large state bank.](#)
Maximo Bosch, Eduardo Contreras

TC-10: Project Scheduling: Scheduling of Activities

- [A Heuristic Solution for Shorter Critical Chain Project Duration](#)
Sheng-Hung Chang
- [Simulation and Sampling in Stochastic Activity Networks](#)
Abdelghani Elimam,
- [Multi-objective Resource-constrained Project Scheduling](#)
Javier Alcaraz

TC-11: Supply Chain Management

- [Two-Sided Network Effects with Supply and General Random Demand Considerations](#)
Huan Zheng
- [A study on process flexibility in software supply chain](#)
Mabel Chou, Huan Zheng
- [Application of Conditional Value at Risk for Contract Costing Model](#)
Berrak Dag, Paul Liston, Cathal Heavey
- [Optimal Policies for Inventory Systems with Two Types of Products Sharing Common Hardware](#)
Chee Khian Sim,

TC-12: Finance: Option pricing

- [PRICING AMERICAN OPTIONS UNDER STOCHASTIC VOLATILITY AND STOCHASTIC INTEREST RATES](#)
Alexey Medvedev, Olivier Scaillet
- [Option Pricing under GARCH processes by PDE methods](#)
Michèle Breton, Javier de Frutos
- [Fractal asset returns, arbitrage and option pricing](#)
Petrus H Potgieter
- [Option valuation by recursive wavelet lifting](#)
Antonio Cosma, Olivier Scaillet

TC-13: Finance: Portfolio management

- [Selecting Portfolios for Mutual Funds Visually on Decision Balls](#)
Li-Ching Ma

- [Optimal VaR constrained hedging of fixed price load following obligations in competitive electricity markets](#)
Yumi Oum, Shmuel Oren
- [Risk-Constrained Dynamic Portfolio Management](#)
Daniel Akume

TC-14: DEA Theory: New developments 3

- [Influential Observations in Frontier Models, a Robust](#)
Rui Marques, Kristof De Witte
- [Multiplier Forms of VRS Radial DEA Models](#)
Lifen Wu
- [A multiplier bound approach to assess relative efficiency in DEA without slacks](#)
Inmaculada Sirvent, Nuria Ramón, Jose L. Ruiz
- [Efficiency in relational models: DEA approach](#)
mahta yekkalam

TC-15: Road Pricing

- [On the Existence of Commodity-Independent and Commodity-Dependent Tolls](#)
Robert Abrams, Jane Hagstrom
- [Pareto-Improving Congestion Tolls for General Road Networks](#)
Siriphong Lawphongpanich, Yafeng Yin

TC-16: Air Transportation

- [Robust Crew Pairing Scheduling](#)
Viktor Dück
- [An iterative approach to integrated aircraft routing, crew pairing and flight re-timing](#)
Oliver Weide, David Ryan, Matthias Ehrgott
- [Revenue Management in Aircraft Leasing Business](#)
Qing Ding, Brian RODRIGUES, Kwan Eng WEE

TC-17: Software Demos II (AIMMS/MPL)

- [Teaching OR and Solving Business Problems with AIMMS](#)
Frans de Rooij
- [Introducing New Release of MPL Modeling System for Optimization with New and Enhanced Features](#)
Bjarni Kristjansson

TC-18: Wireless Networks

- [Integer Programming Modeling for Designing Broadband Convergence Access Networks](#)
Youngho Lee
- [Frequency Management as a Factor in Economic Growth and Development - an Empirical Study](#)
Zenzo Ncube, Giel Hattingh, Albert Helberg
- [A GRASP for SS/TDMA with Contiguous Antenna Beams](#)
Fausto Pedro Garcia Marquez
- [A novel reliability based routing protocol for energy aware communication in Wireless Sensor Networks](#)
Long Tran-Thanh, Janos Leventovszky

TC-19: Facilities Planning and Design

- [A Heuristic Approach to Solving Block Layout Problems with Shape Constraints](#)
R. Aykut Arapoglu
- [Optimal site selection for self-storage enterprises](#)
Richard Lackes

TC-20: Data mining and clustering

- [A Data-Mining Linear Programming Model to Predict Material Fatigue Parameters](#)
Armin Fügenschuh, Dorit Hochbaum, Chalid el Dsoki
- [Solutions to some open problems of the optimal stars clustering tree problem](#)
Michal Stern, Ephraim Korach
- [Efficient cut-based image segmentation techniques](#)
Dorit Hochbaum
- [A ranking algorithm for academic journals](#)
Machteld Strydom

Tuesday, 2:00 PM - 3:30 PM

TD-1: Economic Development: General Topics 1

- [Economic, social and political scenarios of Mexico in the next two decades](#)
Jose Vargas-Hernandez
- [Promoting OR in India: Challenges and Opportunities](#)
Ravichandran Narasimhan
- [Key Forces of the Environment of Transitional Economies](#)
Radmilo Todosijevic
- [The Role of Operations Research in the Developing World](#)
Dave Evans

TD-2: Efficient use of core hospital resources

- [Scheduling Physicians in a University Clinic](#)
Umar Al-Turki
- [Nurse rescheduling](#)
Alistair Clark
- [Scheduling radiotherapy patients at a cancer centre](#)
Truword Kapamara, Dobrila Petrovic, Colin R. Reeves
- [Improving Primary Care Access Using Optimization Methods](#)
Ritesh Banerjee

TD-3: Complex Societal Problems

- [A quantitative method for the management of municipal service delivery in an environment of user dissatisfaction](#)
Kris Adendorff
- [URBAN REAL ESTATE APPRAISAL FOR MUNICIPAL LAND TAX ADMINISTRATION: methodological approach to make a general land values map.](#)
Jackson Savio Vasconcelos Silva
- [Urban Dynamics and the influence of Crime](#)
Jan Greben

TD-4: Wine Supply Chain

- [Decision Support System for a Wine Cellar](#)
Adri van der Merwe, Esbeth van Dyk, Jan van Vuuren
- [Scheduling and mathematical modelling in a complex wine supply network: a case study](#)
Simon Dunstall, Rene Weiskircher
- [Improving the Order Management Process of a Winery using a Simulation Model](#)
Sergio Maturana, Alejanro Sanchez
- [Impact of Production Planning on the Wine Supply Chain](#)
Raymundo Forradellas, Martin Marchetta

TD-5: Scheduling - Production

- [BI-OBJECTIVE DUE DATE SETTING IN MAKE-TO-ORDER MANUFACTURING BY INTEGER PROGRAMMING](#)
Tadeusz Sawik
- [Scheduling with Time-Dependent Machining Costs](#)
Xiangtong Qi, Guohua Wan

TD-6: OR Education 3

- [Dynamic modelling of student throughput](#)
CJ Swanepoel

- [Pos-Graduate Students Selection using Analytic Network Process](#)
Joana Ribeiro

TD-7: Heuristic Methods and Applications

- [Using Immune algorithms to solve Assembly Planning Problem](#)
Huai-En Tseng
- [The logistic districting problem: a comparison of distinct metaheuristics approaches](#)
Arnaldo Vallim, Daniel Inhetvin, Rolney Del Ducca
- [ANALYSIS OF SOFT COMPUTING TECHNIQUE TO MINIMIZE THE LOCAL MINIMA PROBLEM IN PATTERN RECOGNITION FOR HAND WRITTEN ENGLISH ALPHABETS](#)
Manu Pratap Singh
- [A comparison of heuristic and structure-based approaches to hyphenation](#)
Machteld Fick, CJ Swanepoel

TD-8: MCDA/SMAA

- [Descriptive decision analysis using SMAA](#)
Ian Durbach
- [Risk-based classification system of nanomaterials](#)
Tommi Tervonen, José Rui Figueira
- [SMAA-Classification: A Method for Nominal Classification with Stochastic Multicriteria Acceptability Analysis](#)
Iryna Yevseyeva, Kaisa Miettinen
- [The shape of the value function in multicriteria acceptability analysis](#)
Risto Lahdelma, Pekka Salminen

TD-9: Quality II

- [Assessing the simultaneous application impacts of EFQM model and BSC in preventing the organization strategies failure](#)
Ali Abbasi Momtaz Bonab
- [Inspecting and analyzing the application trend of EFQM model in Iranian organizations](#)
Ali Abbas Momtaz Bonab
- [A remark on optimal probing lot size for minimizing the expected average processing time of wafers](#)
Chih-Hsiung Wang
- [Holistic Application of Capability indices in reducing waste at Mutare Board and Paper Mills](#)
Philimon Nyamugure

TD-11: Supply Chain Optimization

- [Optimization of Integrated Forward and Reverse Supply Chain](#)
Mangesh Gharote

- [A minimal cost solution technique for a single-vendor single-buyer integrated inventory model under controllable lead time](#)
Md Abdul Hoque
- [APPLICATION OF OPTIMIZATION MODELS IN SUPPLY CHAIN DECISION MAKING](#)
Tibor Kis, Marija Cileg
- [The application of supply chains in the electronic data environment](#)
Peter Schmitz

TD-12: Finance: Revenue management and pricing

- [Retail Revenue Management under Competition](#)
Juan-Carlos Ferrer, Pedro Leon
- [Capacity allocation in presence of risk aversion](#)
Ilaria Foroni, Mariangela Zenga
- [How Firms Succeed: A Longitudinal Study of Resource Allocations in Firms from their Birth onwards](#)
A.D. Amar

TD-13: Finance: Auctions

- [Optimal Release and Empirical Analysis of Online Auctions](#)
Fredrik Odegaard,
- [Dynamic auctions with finite time horizon and sequential observation](#)
Francisco Álvarez
- [About the combination of multi-attribute offers in an English auction context.](#)
Aurélie Casier, Yves De Smet

TD-14: DEA Theory: New developments 4

- [Evaluation of Customer Impact on Innovation Strategies](#)
Gulgun Kayakutlu, Irem Düzdar
- [The compound Malmquist productivity index](#)
Jesús T. Pastor, Juan Aparicio
- [Practical common weight Maximin approach for technology selection](#)
alireza alinezhad, reza kiani mavi, majid zohrebandian, Ahmad Makui
- [CHE method and NACHE as alternatives to DEA](#)
Heinz Ahn

TD-15: Traffic Models and Simulation

- [A Simulation on Reduction of CO2 Discharge as Effect of Advanced Traffic Signal System](#)
Ryosuke Ando, Yoshiki Ohta
- [Decongesting the Road Traffic in the City Of Nairobi Using Simulated Annealing Algorithm](#)
Onserio Nyamwange, Tabitha Mundia

- [Impact of Large Trucks on Signalized Intersection Operations](#)
Scott Washburn, Carlos Cruz-Casas

TD-16: Maritime applications

- [Simulation and Evaluation of Intelligent Check in Facilities for Ferry Port Terminals](#)
Sonal Ahuja,
- [An analysis of cabotage transport navigation in Brazil](#)
NEWTON NARCISO PEREIRA
- [An Efficient Solution Method for the Multi-Item Maritime Inventory Routing Problem](#)
Ricardo Giesen, Juan Carlos Muñoz, Victor Valdivia
- [Optimisation of an empty container relocation network](#)
Willemiena Bean, Johan Joubert

TD-17: Simulation 1

- [A bridge between simulation theory and practice in a process industry environment](#)
Lynette Kotze
- [Arena in an Integrated Growth Program at Sasol](#)
Anette Van der Merwe
- [An agent-based computer simulation of new product diffusion](#)
Lea M. Wakolbinger, Christian Stummer, Markus Günther

TD-19: Heuristic Approaches

- [A multi-parametric evolutions strategies heuristic for the Multi-Depot Vehicle Routing Problem](#)
Christophe Theys, Wout Dullaert, Birger Raa
- [A Study on Improving Scatter Search Methods Applied to the Problem of Vehicle Routing with Simultaneous Delivery and Pickup](#)
Nelida Gladys Maquera Sosa, Dan Abensur Gandelman, Annibal Parracho Sant'Anna
- [A Hybrid Solution Approach for Ready-Mixed Concrete Delivery](#)
Verena Schmid, Karl Doerner, Richard Hartl, Martin Savelsbergh
- [SimuRoute: A Simulation-Based Algorithm for the Capacitated Vehicle Routing Problem](#)
Javier Faulin, Angel A. Juan, Ruben Ruiz, Miquel Gilibert

TD-20: Advanced Topics in Combinatorial Optimization

- [Mathematical Models to Reconstruct Phylogenetic Trees](#)
Daniele Catanzaro, , Raffaele Pesenti, Juan José Salazar González
- [Graph transformations and pseudoboolean operations](#)
Dominique de Werra
- [Heuristic and Exact Algorithms for the Bin Packing Problem with Conflicts](#)
Paolo Toth, Albert E. Fernandes Muritiba, Manuel Iori, Enrico Malaguti

Tuesday, 4:00 PM - 5:30 PM

TE-1: Economic Development: General Topics 2

- [Hierarchical Ordering of Itaipu Dam Extensometers Readings](#)
Maria Teresinha Arns Steiner, Rosangela Villwock, Pedro Steiner neto, Andrea Sell Dyminski
- [A systems approach to indicators of poverty reduction](#)
Isabel Meyer, Mario Marais
- [A Comparative Study of IT Diffusion Patterns in the Public and Private Sectors of Ghana](#)
Kweku Ewusi-Mensah

TE-2: Advanced Modeling Methods in Health Care

- [DRIVING HOSPITAL THROUGHPUT THROUGH PATIENT-CENTERIC DESIGN AND FLOW](#)
Tejas Gandhi
- [Optimization in the Health System of the State of Parana: Flow of Patients and New Hierarchic Configurations](#)
Pedro Steiner neto, Cassius Tadeu Scarpin, Maria Teresinha Arns Steiner,
- [The Home Care Routing Problem](#)
Matias Sevel Rasmussen, Tor Justesen, Jesper Larsen, Anders Dohn
- [Centralized vs. Distributed Pharmacy Configuration: A System Dynamics Approach](#)
Kalyan Pasupathy

TE-3: Transport and Management

- [A STUDY OF THE FACTORS MILITATING AGAINST PUBLIC TRANSPORT OPERATIONS IN KWARA STATE, NIGERIA.](#)
Aworemi Joshua Remi
- [Empowering lower income commuters by managing service delivery through sophisticated technologies.](#)
Alwyn Moolman
- [Policy assessment in air quality management using an integrated bottom-up modeling approach and environmental and public health externalities estimation](#)
Alejandro Builes, Claudia Cristina Rave Herrera, Cristina Franco, Ricardo Smith, Sebastián Pérez Jiménez, Laura Álvarez
- [Scenario Optimization of Water System](#)
Paola Zuddas,

TE-4: Agribusiness Supply Chain

- [A Business Intelligence approach to SCM Optimization in Biofuel Production](#)
Martin Marchetta, Fernanda Andrea Garcia, Raymundo Forradellas

- [Modelling Animal Farming Systems as Supply Chains](#)
Francois Guerrin
- [A Production Planning Heuristic for an Export-oriented Wine Producer](#)
Franz Carrillo, Sergio Maturana
- [Contribution to the Competitvity Evaluation: An Application of the Spatial Equilibrium Model to the Soybean Production in the State of Tocantins in Brazil](#)
Nélio Pizzolato

TE-5: Scheduling - Applications 1

- [On a mixed 0-1 separable nonlinear programming approach for water irrigation scheduling](#)
Laureano Fernando Escudero, Almiñana Marc, Mercedes Landete, Juan Francisco Monge, Alejandro Rabasa, Joaquin Sánchez-Soriano
- [Batch Sequencing to Scheduling Problem in a Real-World Pipeline Network](#)
L. Valeria R Arruda, Flavio Neves-Jr, Yamamoto Lia
- [Solving a Cyclic Multiple-Part Type Robotic Cell Scheduling Problem by Genetic Algorithm](#)
Isa Nakhai, saiedeh Gholami, ali mirzaei

TE-6: Bringing the real world of OR into the classroom 1

- [Workshop 1](#)
Peter Bell

TE-7: Multi-Objective Optimization

- [A multi-objective optimisation framework for optimisation algorithm parameter derivation](#)
Antoine Dymond, Schalk Kok
- [METHODOLOGICAL APPROACHES TO MULTIOBJECTIVE STOCHASTIC LINEAR PROGRAMMING.](#)
Segun Adeyefa

TE-8: Multiple Criteria Decision Analysis

- [Decision Support by Interval SMART/SWING](#)
Jyri Mustajoki, Ahti Salo, Raimo P. Hämäläinen
- [Bibliometric Analysis of Multiple Criteria Decision Making](#)
Johanna Bragge, Pekka Korhonen, Hannele Wallenius, Jyrki Wallenius
- [Visualization in the Multiple Objective Decision-Making Framework](#)
Pekka Korhonen, Jyrki Wallenius
- [QoS-driven decision support for selection of web services](#)
Ludmil Mikhailov, Liping Zhao

TE-9: Reliability and Availability

- [STATISTICAL INFERENCE OF A RELIABILITY SYSTEM WITH VARYING REPAIR RATE](#)
Mwanga Alifas Yeko
- [Weekly availability predictions for Catalyst Preparation](#)
Melanie Fourie

TE-11: Coordinating Supply Chains

- [Optimal Decisions and Coordination Contract in a perishable Product Supply Chain Involving the Third Logistic Provider](#)
wang yi, sun linyan
- [A Comparison of Supply Chain Contracts with Effort Dependent Demand](#)
Onur Kaya
- [Safety stock placement in a multi-echelon supply chain with probabilistic demand](#)
Johan Joubert, Marlize Van Zyl
- [Combinatorial auctions in supply networks](#)
Petr Fiala

TE-12: Finance: Optimisation in financial mathematics

- [MODELS FOR PRICING OPTIONS EMBEDDED IN RETIREMENT RELATED PRODUCTS IN BRAZIL](#)
Nicolas Saad, Celma Ribeiro
- [Superreplication problem under discrete time Gamma Hedging](#)
Selim Gokay, Mete Soner

TE-13: Finance: Risk analysis and management

- [Estimation of the Value at Risk in the oil field](#)
Aboun Nacéra, Oumhani Belmokhtar
- [Two-Stage Financial Risk Tolerance Assessment Using DEA](#)
Joseph Paradi, Angela Tran
- [Credit Scoring with Macroeconomic Variables Using Survival Analysis](#)
Jonathan Crook, Anthony Bellotti

TE-14: DEA Theory: Recent developments in nonparametric frontier estimation

- [Frontier Estimation and Extreme Values Theory](#)
Jean-Pierre Florens, Abdelaati Daouia, Léopold Simar
- [Identifying Escalation of Commitment in New Product Development](#)
Naveen Donthu, Belgin Unal

- [A moving window approach for nonparametric estimation of extreme level curves](#)
Laurent Gardes, Stephane Girard, Alexandre Lekina
- [Functional Convergence of Quantile-type Frontiers with Application to Parametric Approximations](#)
Abdelaati Daouia, Jean-Pierre Florens, Léopold Simar

TE-15: Traffic Assignment Modelling

- [A dynamic traffic assignment model of car and bus travel under road pricing](#)
C.O. Tong
- [DYNAMIC STOCHASTIC TRANSIT ASSIGNMENT MODEL UNDER ADVANCED PUBLIC TRANSPORTATION INFORMATION SYSTEM](#)
Agachai Sumalee, William Lam
- [Route Choice among Cross-boundary Container Truck Drivers](#)
Becky P.Y. Loo

TE-16: Information technology in logistics

- [The benefits of vehicle routing software in real life transportation planning](#)
Antti Hallamäki, Olli Bräysy, Pekka Hotokka
- [The Potential of GPS to Replace Self-Report Surveys](#)
Peter Stopher, Eoin Clifford
- [Tracking cellular telephones at a large event to provide advisory services for spectators](#)
Antony Cooper, Peter Schmitz, Francois Aucamp, Elza Kekana

TE-17: Simulation 2

- [Reliability modelling as a tool to assist plant design](#)
Christine Pretorius
- [Refinery Stochastic Modelling](#)
Marlize Meyer
- [Auto Carrier operational planning using discrete-event simulation](#)
Annemie du Plessis, James Bekker

TE-19: Routing Applications

- [In-vehicle navigation using a time-dependent reliable A* search](#)
Ioannis Kaparias,
- [Topology-based Optimal Road Network Pruning: A Method for Speeding up Shortest Path Computation](#)
Tuukka Puranen, Joni Brigatti, Pekka Hotokka, Antti Hallamäki
- [Routing in protected areas](#)
José L. Pino, M^a Teresa Cáceres, Gerardo Valeiras, Luisa Jurado

- [ERP Add-On Development for the Multi-item Lot Sizing Problem with Inventory Capacities](#)
Marcos Colebrook, Jose M Gutierrez, Beatriz Abdul-Jalbar, Joaquín Sicilia

TE-20: Minimax Stochastic Optimization with Applications

- [Product Line Selection with Interdependent Products](#)
Chung Piaw Teo, Karthik Natarajan, HUA TAO
- [Models for Minimax Stochastic Programs with Risk Aversion](#)
Karthik Natarajan
- [Robust optimization applied to the aggregate production planning of a Brazilian sugarcane milling company](#)
Rafael Paiva, Reinaldo Morabito

Thursday

Thursday, 8:00 AM - 9:30 AM

RA-1: OR for Sustainable Development : General

- [Raw Material Logistics for Biorefineries](#)
Magnus Fröhling,
- [Optimal Jobs-Housing Assignment Problem Considering Density and Growth Limitations](#)
Sohee Lee, Tsutomu Suzuki
- [Strategies for OR Feasible Use for Achiving Millennium Development Goals In Nigeria](#)
gbeminiyi odina
- [Services Exports: Evolution and Evaluation of Thailand's Services Industry](#)
sujinda Chemsripong

RA-2: Health Care for the Community

- [A case study on model selection using Akaike and Bayesian Information criterion](#)
MULALO ANNAH MANAGA
- [Medicaid Influence in the Drug Market](#)
Franklin Carter
- [Modelling services for stroke patients](#)
Steffen Bayer, Christina Petsoulas, Benita Cox,

RA-3: Transportation Supply and Demand

- [Optimizing the Number of Operators in an Oligopolistic Transit Market](#)
, Zhi-chun Li, S.C. Wong

- [Impact of Transport Network Management on Activity Location Cost Over Time](#)
Hong K. Lo, Barbara Siu, Xiaosu Ma
- [Time versus Cost-based System Optimizations with Heterogeneous](#)
Hai Yang

RA-4: Applications of OR in Forestry 2

- [Parameter estimation in compound Weibull distributions](#)
Clara Simon de Blas, francisco josé cano-sevilla
- [Locating Fuel Treatments on Flammable Forest Landscapes](#)
David Martell, Jason Myers, Juan José Troncoso, Andrés Weintraub
- [The recursiveness of the age-class forest model and simulations of climate policy impact](#)
Jani Laturi, Jussi Uusivuori

RA-6: Bringing the real world of OR into the classroom 2

- [Workshop 2](#)
Peter Bell

RA-7: Optimization Methods

- [Robust Linear Models: A Comparison between a MILP and LMS Approach](#)
Thinus du Plessis, Giel Hattingh, Hennie Kruger
- [A Novel Soft Clustering Algorithm](#)
Luiz Carlos Ferreira de Sousa, Adilson Elias Xavier
- [Multistage Stochastic Programs via Autoregressive Sequences, Stability and Empirical Estimates](#)
Vlasta Kaňková

RA-8: Visual Aspects of MCDA

- [Visual MCDA using new GAIA type methods](#)
Quantin Hayez, Bertrand Mareschal
- [Integration of outranking methods to geographical information systems](#)
Karim Lidouh, Yves De Smet
- [Graphical representation of the preferences of a decision maker](#)
Yves De Smet, Bertrand Mareschal, Philippe Nemery
- [Using the GAIA method for multicriteria sorting and clustering](#)
Bertrand Mareschal, Philippe Nemery, Quantin Hayez

RA-9: Game Theory and Applications I

- [A new characterization of the Shapley value](#)
Conrado M. Manuel, Enrique González-Arangüena
- [Patent licensing in a Cournot duopoly](#)
Flávio Ferreira, Fernanda A. Ferreira
- [Cooperation in Service Systems](#)
Shoshana Anily, Moshe Haviv
- [Cooperation with asymmetric players' profiles](#)
Fouad El Ouardighi

RA-10: Knowledge Management 1

- [Capturing Mental Model Convergence in Teams Using Exploratory Sequential Data Analysis](#)
Sara McComb, Deanna Kennedy
- [Discovering User profiles for recommenders systems: The role of utility functions](#)
Kleanthi Lakiotaki, Nikolaos Matsatsinis
- [Building bridges through partnership](#)

RA-11: Newsvendors, Pricing, and Assortments

- [Entrepreneurs and newsvendors: do small businesses follow the newsvendor logic when making inventory decisions?](#)
Charles Corbett, Jan C. Fransoo
- [Dynamic Pricing and its Effects on Supply Chains](#)
Gunnar Feldmann, Abhijit Deshmukh
- [PRODUCT ASSORTMENT UNDER CUSTOMER-DRIVEN DEMAND SUBSTITUTION IN RETAIL OPERATIONS](#)
Eda Yücel, Fikri Karaesmen, Sibel Salman, Metin Turkey
- [Bicriteria optimization in the newsvendor problem](#)
Francisco Arcelus, Satyendra Kumar, gopalan srinivasan

RA-12: Finance: Siemens

- [Text Mining for Predictive Methods](#)
Miroslav Mitev, Martin Kuehrer, Alexander Wurzer
- [Bayesian Portfolio Optimization Incorporating Directional and Point Forecasts](#)
Patricia Baroczi, , Martin Kuehrer, Miroslav Mitev
- [A trading strategy to detect inefficiencies in a highly correlated](#)
Martin Kuehrer, Klaus Gams, Miroslav Mitev, Raimund Kovacevic

RA-13: Scheduling - Applications 2

- [Aggregate Production Planning In The Automotive Industry – A Practical Approach](#)
Thomas Sillekens, Achim Koberstein

- [A Train Scheduling Model with Muslim Praying Constraints](#)
Melody Sameni, Mohammad Reza Amin Naseri, Mohsen Pour Seyyed Aghaee
- [Optimizing the Slab Yard Crane Scheduling Problem Using a Two-Stage Planning/Scheduling Approach](#)
Anders Dohn, Jens Clausen, Jesper Larsen

RA-14: DEA: Applications in Education

- [ECONOMICAL PERFORMANCE IN HIGHER EDUCATION: AN APPLICATION OF DATA ENVELOPMENT ANALYSIS METHOD IN FACULTIES OF ECONOMICS AND ADMINISTRATIVE SCIENCES](#)
fehim bakirci, adem babacan, aziz kutlar
- [Efficiency Evaluation of Islamic Azad University \(of Iran\) Firouzkoh Branch \(IAUFB\) during 1995-2005: Using DEA Method](#)
Mohammad Mehdi Movahedi, Saber Saatimohtadi, Mohammad Bamenimoghdam
- [Targeted redundancies and performance evaluation of academic staff](#)
John Hearne
- [Efficiency Targets for Research Projects in Economics and Education](#)
Thang Bach

RA-15: DEA and the Public Sector

- [Developing a Systems Analysis Framework for the National Poverty Alleviation System](#)
Marita Turpin, Mario Marais, Leanne Scott
- [Measuring the influence of operational environment in the Portuguese solid waste services](#)
Pedro Simões, Rui Marques, Kristof De Witte
- [EFFICIENCY PROBLEM WITHIN THE SECTOR OF LOCAL PUBLIC TRANSPORTS: AN EMPIRICAL ANALYSIS IN THE REGION OF SICILY](#)
Sebastiano Patti

RA-16: Routing heuristics

- [Performance Analysis of Procedures for the dynamic Multi-Load Pickup and Delivery Problem with Time Windows](#)
Steffen Schorpp, Bernhard Fleischmann
- [Genetic Algorithm based Heuristics for an Integrated Inventory Routing Problem](#)
Nur Arina Bazilah Aziz, Noor Hasnah Moin
- [Solving Two-Echelon Location-Routing Problem with Soft Time-Windows Constraints](#)
Ehsan Nikbakhsh, Seyed Hessameddin Zegordi
- [Open location management in automated storage/retrieval systems](#)
Yugang YU, René de Koster

RA-17: Locational Planning

- [The Reliable Maxmin-maxsum Location Problem on a Tree](#)
Emanuel Melachrinoudis , José Santiváñez
- [On network facility location problems that solvable in polynomial or pseudopolynomial time](#)
Edward Gimadi
- [Stochastic facility location problem under the preference of routes](#)
Hiroaki Ishii, K. Y. YEH

RA-18: Cutting and Packing 1

- [Research support tools in cutting and packing: a survey](#)
Jose Fernando Oliveira, A. Miguel Gomes
- [A Mathematical Model to the Lot Sizing and Saw Programming Problem on a Furniture Industry](#)
Silvia Grandi dos Santos, Silvio Araujo, Socorro Rangel
- [A One-Dimensional Cutting Stock Problem from the Wood-Processing Industry – Usable Leftovers and Additional Handling Operations](#)
Soeren Koch
- [A Cutting and Lot-Sizing Coupled Problem in the Furniture Industry](#)
Marcos Arenales, Carla Silva

RA-19: Problems with stochastic data

- [Dependence in scheduling problems](#)
Patrick Schittekat
- [Progressive Hedging Applied to Stochastic Inventory Routing Problem](#)
André Shiguemoto, Vinícius Armentano, Arne Lokketangen
- [Inventory Routing for Environments with Stochastic Product Usage](#)
Vera Hemmelmayr, Karl Doerner, Richard Hartl, Martin Savelsbergh
- [The Facility Location Problem with Stochastic Demands](#)
Maria Albareda-Sambola, Elena Fernandez, Francisco Saldanha-da-Gama

RA-20: Optimization for sustainable production 1

- [Process Integration as an Optimisation Tool in Clean Coal Technology](#)
Rhulani Shingwenyana, Thokozani Majozi
- [A Mathematical Optimisation Technique for the Effective Scheduling of Zero-Effluent Batch Plants](#)
Jacques Gouws, Thokozani Majozi
- [Aroma Guided Energy Integration in Sludge Treatment](#)
Jaime Rojas-Hernandes, Thokozani Majozi, Toshko Zhelev
- [CO2 Emissions Reduction via a Graphical Analysis Method for Renewable Energy Supply Chains](#)
Hon Loong Lam, Jiri Klemes, Petar Varbanov

Thursday, 10:00 AM - 11:00 AM

RB-1: Humanitarian Logistics

- [Supply Chain Management in the Context of Humanitarian Disasters](#)
Luk Van Wassenhove

Thursday, 11:30 AM - 1:00 PM

RC-1: OR for Sustainable Development and the Environment

- [Implementation of environmental management systems \(ISO 14001\): a case study at the construction enterprises in Latvia](#)
Tatjana Tambovceva, Ineta Geipele
- [Recycling and Reuse Of WEEE, a Stochastic Model for Reuse Channel](#)
Müjde Erol Genevois, Ilke Bereketli, H. Ziya Ulukan
- [How Uncertain Can a Corporate Greenhouse Inventory Be?](#)
Gutemberg Brasil, Paulo Antonio de Souza, Jr., João Andrade Carvalho
- [Optimum economic assignment of control devices for the reduction in the emissions of total particulate matter in the industries of metropolitan area of Valley of Aburra.](#)
Federico Liévano

RC-2: Humanitarian Logistics

- [A Multi-objective and Stochastic Warehouse Location Routing Problem for Disaster Relief](#)
Stefan Rath
- [A Decision Support System for the Distribution of Humanitarian Aid](#)
Begoña Vitoriano, M. Teresa Ortuño
- [A Stochastic Model for Hurricane Logistics, Preparedness, Response, and Humanitarian Aid](#)
Michael Metzger, Richard Larson

RC-3: Arc Routing

- [Probabilistic Arc Routing](#)
Richard Wong, Si Chen, Bruce Golden, Hongsheng Zhong
- [Capacitated Arc Routing Problem: School Bus Routing](#)
Johnson De-Graft Ankamah
- [Heuristics for the Capacitated Rural Postman Problem](#)
Fábio Usberti, Paulo Morelato França, Vinícius Garcia, André Luiz Morelato
- [The exact solution to the Clustered Price-collecting Arc routing Problem](#)
Elena Fernandez, Julián Aráoz Durand, Carles Franquesa

RC-4: Queues 1

- [Fair charge heuristics for dynamic resource allocation- a queueing example.](#)
David Hodge, Kevin Glazebrook, Christopher Kirkbride
- [Service Level Trade-Offs in a Reservation-Based Priority System](#)
Ki-Seok Choi
- [Approximation to the Transient Solution of the M/Ek/1 Queue](#)
JEFF GRIFFITHS

RC-5: Creating and Building IFORS

- [Growth and Development of IFORS](#)
Heiner Müller-Merbach
- [IFORS and Before](#)
K. Brian Haley
- [Not what I did for IFORS, but what IFORS did for me](#)
Graham Rand

RC-6: OR Education

- [Identifying and solving optimization problems by means of case based reasoning in Internet](#)
Miguel Angel Garay
- [Examining university graduates' entrepreneurship through the design and application of an OR survey model](#)
Vassilis Kostoglou
- [Allocation of funds among university departments - a DEA study](#)
Josef Jablonsky
- [LEARNING OPERATIONS RESEARCH ONLINE: BENEFITS, CHALLENGES AND EXPERIENCES](#)
Sara Verónica Rodríguez-Sánchez, Lluís M Pla, Javier Faulin, Angel A. Juan, Pau Fonseca i Casas

RC-7: Applications of Optimization Methods

- [Motion Planning of Robot Manipulators Based on Variational Calculus](#)
Alberto Olivares,
- [The Optimal Control Problem for low-thrust spacecraft trajectories](#)
Dario Izzo, Marco del Rey Zapatero, Tamas Vinko
- [Dynamic Programming for the Real World](#)
Augustine ESOGBUE
- [OPTIMISATION OF IC ENGINE PERFORMANCE FOR HIGHER FUEL ECONOMY - TAGUCHI METHOD](#)
uma shankar, cr rajasekhar

RC-8: Decision support systems for economic or environmental issues

- [Assessment of software investments](#)
Emil Numminen, Birger Rapp, Anders Hederstierna, Henrik Sällberg
- [Cooperative Decision Support Systems: A Project Management approach](#)
Pascale Zaraté
- [Information Errors, Process Models and Risk Management](#)
Xue Bai, Rema Padman,
- [AHP, ANP and SWOT analysis for optimal management of ecosystems](#)
Lidija Zadnik-Stirn

RC-9: Game Theory and Applications II

- [Modeling and Learning in Settings with Misspecified Models](#)
Anton Kleywegt
- [Technology, Operations and Marketing Strategy in a Dynamic Duopoly](#)
Bowon Kim, Fouad El Ouardighi, Sangsun Park
- [Advertising Strategies in Fashion Licensing](#)
Alessandra Buratto, Georges Zaccour

RC-10: Data Mining 1

- [Visualising relationships in qualitative data](#)
MF Immelman
- [A Multi-Dimensional Measure of Poverty](#)
Sathie Naidoo
- [Machine Learning Techniques for Cryptanalysis](#)
B Chandra, Pallath Varghese, Pramod Saxsena, Shrikant Shrikant

RC-11: Supply Chain Applications

- [Rail Capacity Expansion in the Coal Supply Chain: A Simulation Study](#)
David Sier, Leorey Marquez, Andreas Ernst
- [STRATEGIC CHALLENGES FOR SUPPLY CHAIN INTEGRATION: Perspectives from Southern Africa](#)
Ozias Ncube, Venkata Yadavalli
- [Supply Chain management in the FMCG industry: Perspectives from South Africa](#)
Jenny Fletcher, Ozias Ncube

RC-12: Finance: Finance and banking

- [Risk Management Cultures and Practices at Large Financial Institutions](#)
Chaiho Kim
- [From Earthly Union to Made-In-Heaven: Enhancing the Success of Corporate Mergers in Europe and the USA](#)
Harpriye Juneja

- [Quantifying Operational Risk of Financial Institutions](#)
Andrew Scurr, Stanislav Bozhkov, Antoaneta Serguieva, Keming Yu, Onder Dolutas
- [Evaluation of Algorithmic Trading Rules](#)
Günter Schmidt, Esther Mohr

RC-13: Scheduling - Applications 3

- [Representations in genetic algorithm for the job shop scheduling problem: a computational study](#)
Tamer Abdelmaguid
- [A heuristic based on partial ordering for solving the minimization of tool switches problem](#)
Horacio Yanasse, Rita de Cássia Meneses Rodrigues, Edson Senne
- [Scheduling in Open Pit Mining: Clever Disaggregation and Stochastic Models](#)
Gary Froyland, Natashia Boland, Irina Dumitrescu

RC-14: DEA Theory: New developments 5

- [A new integrated DEA model for finding most BCC“efficient DMU](#)
Mehdi Toloo, Soroosh Nalchigar
- [An extended numeration method for solving FDH/DEA models of standard economies of scale](#)
Mohammad Reza Alirezaee, Abolfazl Keshvari, Behzad Babazadeh
- [QUANTITATIVE MODELING EXTREME FINANCIAL RISK](#)
Zoran Ciric, Otilija Sedlak
- [Technical Efficiency of the Locators in the Samal Mariculture Park.](#)
Ariel Abesamis
- [A Comparison of the position of Turkey with OECD Countries in the Area of Science and Technology Using Data Envelopment Analysis](#)
Erhan BERK, Muhammet UNAL

RC-15: DEA: Applications in Industry 1

- [How the environment determines banking efficiency: A comparison between New Zealand and Australian banks](#)
dong xiang, David Tripe
- [Two Ranking of Units on the Overall Profit Efficiency with Interval Data](#)
Nazila Aghayi
- [A slack-based DEA as a measurement of technical efficiency in the Philippine Food Industry](#)
Babeth Isa Fernando

RC-16: Transportation planning

- [A two-phases heuristic for the Crew Rostering Problem](#)
Renato De Leone, Emilia Marchitto, Gionatan D'Annibale

- [FEEDER TRANSIT SERVICES: CHOOSING BETWEEN FIXED OR DEMAND RESPONSIVE POLICY](#)
Luca Quadrifoglio
- [Use of the Weibull distribution to predict rail defect occurrence rates](#)
Chris Roth

RC-17: Locational Planning

- [Reactive GRASP based Heuristics for the Capacitated Multi-source Weber Problem](#)
Martino Luis, Said Salhi, Gábor Nagy
- [A Column Generation Approach for the Probabilistic Maximal Covering Location-Allocation Problem](#)
Francisco A. Correa, Glaydston Ribeiro, Luiz A. N. Lorena
- [Site Location of a Manufacturing Plant.](#)
Gert Botha

RC-18: Cutting and Packing 2

- [Four new algorithms for the two-dimensional two-phase variable-sized bin packing method](#)
Frank Ortmann, Nthabiseng Ntene, Jan van Vuuren
- [A waste reduction algorithm based on alternative underestimates for the modified Wang method](#)
Riaan Oberholzer, Giel Hattingh, Tjaart Steyn
- [The two-dimensional cutting stock problem with usable leftovers](#)
Adriana Cherri, Andrea Vianna, Marcos Arenales

RC-19: Pickup and Delivery Routing

- [Multi commodity split pickup and split delivery problems](#)
Bjørn Nygreen, Frank Hennig
- [Scatter Search for the Vehicle Routing Problem with Time Windows and Split Deliveries](#)
Patrícia Belfiore Fávero, Hugo Yoshizaki
- [New formulations for Pick and Delivery problems](#)
Pablo Factorovich, Isabel Méndez-Díaz, Paula Zabala
- [Pickup-and-Delivery TSP to serve customers with stochastic demands](#)
François Louveaux, Juan José Salazar González

RC-20: Optimization for sustainable production 2

- [A Sustainable Optimized Liquefied Energy Chain with CO2 Capture and Storage](#)
Truls Gundersen, Audun Aspelund
- [Integration of Fuel Cells into Combined Power Cycles](#)
Petar Varbanov, Jiri Klemes, Ferenc Friedler
- [Optimization of Industrial Plants and Production: P-graph and S-graph Methodologies](#)
Ferenc Friedler, L. A Fan

- [S-graph Based Continuous-Time Approach for Throughput Maximization in Multipurpose Batch Plants](#)
Thokozani Majozi, Ferenc Friedler, Tibor Holczinger, Mate Hegyhati

Thursday, 2:00 PM - 3:30 PM

RD-1: OR for Sustainable Development: Optimization Applications

- [Use of models in natural resource management decision-making](#)
Oliver Chikumbo
- [Introducing systems dynamics in multi-criteria analysis. An application to the evaluation of innovative road safety measures.](#)
Klaas De Brucker, Cathy Macharis, Alain Verbeke
- [Multicriteria Measures in Well-being](#)
Marc Despontin, Brent Bleys

RD-2: Humanitarian Logistics

- [A Dynamic Patient Transportation Model for Post-disaster Response](#)
Sezer Gul, Sibel Salman
- [Securing extramural health care for people with special needs in times of crisis and disaster](#)
Patrick Hirsch
- [AN ANALYSIS OF THE INVENTORY LEVELS AND DISTRIBUTION OF ANTI-RETROVIRAL DRUGS BY NON-GOVERNMENTAL ORGANISATIONS IN ZIMBABWE.](#)
BRIAN CHIRIPANHURA
- [An investigation into the Humanitarian Logistics emanating from the distribution of the HIV virus in Sub Saharan Africa](#)
Kelvin T Chirenje

RD-4: Queues 2

- [Dynamic pricing of queues](#)
Christopher Kirkbride
- [A continuous review perishable inventory system with multi-server facility and negative customers](#)
Venkata Yadavalli, Balasubramanian Sivakumar, Gunaseelan Arivarignan
- [On the power of a queueing system](#)
Gerardo Rubino

RD-5: The Present State of IFORS

- [The Present State of IFORS](#)
Elise del Rosario

RD-6: OR Applications to Education

- [Decision Support System For Managing Educational Capacity Utilization For a New Private College in Sub-Saharan Africa](#)
Muhammadou M.O. Kah, Jainaba M.L. Kah , Kweku-Muata Osei-Bryson
- [A Mathematical Approach to Enrolment Planning and Management with Targets Over a Finite Period](#)
Londiwe Masinga
- [CORPORATE LIFELONG LEARNING AND ENTERPRISE RESOURCE PLANNING SYSTEM INTEGRATION](#)
Vladan Pantovic, Marko Savkovic, Dusan Starcevic

RD-7: Convex Optimization

- [About Extremality, Stationarity, and Regularity of Collections of Sets](#)
Alexander Kruger
- [Approximation of Stochastic Differential Equations by Additive Models Using Splines and Conic Programming](#)
Pakize Taylan, Gerhard-Wilhelm Weber, Devin Sezer

RD-8: Management Information Systems

- [Analysis, testing and optimization tool for designed system](#)
Tatiana Kot
- [A contingent resource-based explanation on the value of information assimilation capability](#)
Christina Wong, Mike Lai, , Venus Lun, C.T. Ng
- [Decision@Work - a framework for supporting decision-intensive business processes](#)
Kathrin Kirchner, Ivonne Erfurth

RD-9: Game Theory and Applications III

- [Sequential coalition formation and the core in the presence of externalities](#)
László Kóczy
- [A family of values for cooperative games in generalized characteristic function form](#)
Enrique González-Arangüena, Conrado M. Manuel, Daniel Gomez Gonzalez
- [Merger in a Stackelberg oligopoly](#)
Fernanda A. Ferreira
- [Strategic Interactions Among Franchisees: Are Franchisors Always Better Off?](#)
Guiomar Martin-Herran, Simon-Pierre Sigue, Georges Zaccour

RD-10: Data Mining 2

- [Mixed Poisson models with random arrivals](#)
Vippal Savani, Anatoly Zhigljavsky
- [Optimizing Flash\(SWF\) indexing to provide better rankings and find the appropriate subject](#)
Fábio Ricotta, Adriana Mattedi, Roberto Costa, Roberto Silva, Carlos Tamaki, Fabiano Santos
- [The Study of TREADOFF in Conjoint Analysis](#)
Hiromu Kono, Hiroaki Ishii, Shogo Shiode
- [Selecting Predictive Models for Inclusion in an Ensemble](#)
Kweku-Muata Osei-Bryson, Muhammadou M.O. Kah, Jainaba M.L. Kah

RD-11: Production Planning & Control I

- [A PROBABILISTIC OPTIMAL ORDERING POLICY PROPORTIONAL TO STORAGE COST](#)
Ahmad Sarfaraz
- [THEORETICAL ANALYSIS OF IMPROVING PROCUREMENT PERFORMANCE OF SMALL TO MEDIUM SCALE ENTERPRISE \(SMEs\) THE ZIMBABWEAN CASE](#)
Moses Dowart
- [Some remarks on "Analysis of production systems when run length influences product quality"](#)
Kit Nam Francis Leung
- [Using an aggregate production planning model to optimize the product and customer portfolio of a Brazilian mechanical industry](#)
Felipe Alberto Simas Donato, Sérgio Fernando Mayerle, João Neiva de Figueiredo

RD-12: Finance: Financial modelling

- [Leasing and options for entrepreneurs](#)
Alejandra Gomez_Padilla, Tsutomu Mishina, Tsutomu Mishina
- [Statistical Analysis of Equity Indices- A Probabilistic Approach](#)
Madhava K. S Rao
- [Classification of Volatility in Equity Indices- A Markov Approach](#)
Kabelo Moseki, Madhava K. S Rao
- [Real option & Information costs](#)
Jean-Michel Sahut

RD-13: Scheduling - Multicriteria

- [Genetic algorithm with experimental parameters design for bicriteria open shop scheduling problems](#)
Hong Tau Lee, sheu-hua chen
- [Personnel vs Machine Performance Costs in Open-Shop Scheduling Problems with Time-Windows with Minimal Makespan](#)
David Alcaide López de Pablo, Antonio Sedeño-Noda, Carlos González-Martín
- [A very fast algorithm for finding non dominated solutions for the bicriteria flexible jobshop scheduling problem](#)
Jean-Charles Billaut, Geoffrey Viltot

RD-14: DEA: Applications in Farms and agricultural

- [Modeling Milk Cost in Estonian Farms: A Stochastic Frontier Analysis Approach](#)
Reet Poldaru, Jyri Roots
- [Farming system performance and water use efficiency in Tunisian semi-arid region](#)
fraj chemak
- [Productive Efficiency of Iran Sun-flower Producers: A DEA Approach](#)
Mohammadreza Arsalanbod
- [Research on application of C2R and C2GS2 model to all efficiency evaluation in nautical health organization](#)
Xiaorong Liu

RD-15: Vehicle Routing

- [Extending exact models applicability for the Capacitated Vehicle Routing Problem](#)
Daniel Negrotto, Irene Loiseau, Julián Aráoz Durand
- [A new heuristic fo the capacitated network design problem](#)
Inmaculada Rodríguez Martín, Juan José Salazar González

RD-16: Applications in logistics

- [The impact of prioritization on a LTL network](#)
Anne Paul
- [A NEW APPROACH TO PLANNING TOURS FOR A LOGISTICS SERVICE PROVIDER](#)
Aydin Sipahioglu, Ümit Ali Özkazanç
- [MODELING AND MEASUREMENT OF ETHANOL TRANSPORT BY HIDROVIA TIETÊ-PARANÁ](#)
Rui Carlos Botter
- [Optimal use of current logistics infrastructure and planning for expansion](#)
Leilani Morison

RD-17: Energy: General

- [Sizing PVP systems](#)
Vasco Chikwasha
- [The impact of the forward market on producers' market power](#)
Alexander Vasin
- [Life Cycle Assessment of a Coal-fired Thermal Power Plant in Zimbabwe](#)
Charles Mbohwa, NKOSINATHI NCUBE

RD-18: Cutting and Packing 3

- [Variable Neighborhood Search for the Three-Dimensional Bin Packing Problem](#)
Vinícius Armentano, Olinto Araújo
- [Using graph path search algorithms to optimize apparel manufacturer cutting order programs](#)
João Neiva de Figueiredo, Daniela Brandao Nascimento, Sérgio Fernando Mayerle, Rafael Machado Casali, Paulo Renecio Nascimento
- [Beam-search algorithms for packing unequal circles into a strip or a rectangle](#)
Thomas Tilli, , Andreas Bortfeldt

RD-20: Assembly Lines

- [Development of New Efficient Set of Heuristics for Assembly Line Balancing Problem.](#)
venkat pavan rohit chennamaneni, mohith rao kotagiri
- [Efficient Mixed-Model Assembly Lines for High Product Variety - A practical Approach](#)
Simon Altemeier, Wilhelm Dangelmaier
- [Using ant colony algorithm to solve assembly line balancing problem](#)
Shahab Derhami
- [Variance Reduction in Assembly Lines](#)
Jan Erik Gans, Wilhelm Dangelmaier

Thursday, 4:00 PM - 5:30 PM

RE-2: improving policy in healthcare

- [A novel case based reasoning approach to radiotherapy planning](#)
, Sanja Petrovic, Santhanam Sundar
- [Cost-effectiveness of antenatal anti-D for pregnant women in England and Wales](#)
Hazel Pilgrim, Myfanwy Lloyd-Jones, Jim Chilcott, John Stevens
- [New AHP Pain Scale](#)
Tomas Feglar

RE-3: Simulation and Stochastic Models

- [Aggregated Force Attrition with a Dynamic Composition of Models](#)
Ori Sasson
- [Modeling Civil Defense Operations for Training](#)
Amnon Gonen, Ori Sasson
- [Capacity Planning of an Information Technology Organization within the Canadian Forces](#)
Kevin Ng
- [Optimal Location of Canadian Forces Operational Support Hubs](#)
Ahmed Ghanmi

RE-4: Queues 3

- [ANALYSIS OF THE C2/G/1 QUEUEING MODEL WITH EXCEPTIONAL SERVICES](#)
Manju Sharma
- [Building a Simulation Model to Control Complex Production Processes using Queuing Applications](#)
Saad Hasson

RE-5: The Future of IFORS

- [The Future of IFORS](#)
Michael Trick, Elise del Rosario, Don Kleinmuntz, Alexis Tsoukiàs, Andrés Weintraub

RE-6: Human Resources Management

- [Analysis of the Total Productive Maintenance Factors for a Productivity and Quality Increase in Korea](#)
OH Yon -Woo
- [Remuneration for management complexity—an MCDA application](#)
Kobus Wolvaardt, J C Pauw
- [Cultural transformation of petrochemical industry](#)
Marthi Harmse

RE-7: Knapsack Problems and Extensions

- [Branch-and-bound solution techniques for a special class of nonlinear knapsack problems](#)
Stephan Visagie
- [Multidimensional Knapsack Problems with Stair Structure of Constraints](#)
Vladimir Tsurkov, Alexander Tizik
- [Solving the Extended Tree Knapsack problem \(ETKP\) with fixed cost flow expansion functions](#)
David van der Merwe, Giel Hattingh
- [A Genetic Algorithm for the Generalized Quadratic Knapsack Problem](#)
Tugba Saraç, Aydin Sipahioglu

RE-8: Decision Support Systems 1

- [A hybrid system combining optimization and simulation for improved sales personnel assignment at a public railway transportation company](#)
Jaime Miranda, Richard Weber, Pablo A. Rey
- [Model development under uncertainty of the relationships between waste composition and structural size based on the Arcelor Mittal Poland SA, in Krakow case study](#)
Boguslaw Bieda
- [Credit Risk Analysis using Artificial Intelligence: Evidence from a Leading South African Banking Institution](#)
Bryton Masiye

RE-9: Decision Analysis: Methods and Processes

- [The errors underpinning the St Petersburg paradox](#)
Robert Vivian
- [Adaptive decision analysis in planning of natural resources](#)
Pekka Leskinen, Jukka Tikkanen, Teppo Hujala, Tuomo Kainulainen, Annika Kangas, Mikko Kurttila
- [Evaluation of decision making practices](#)
K. Nadia Papamichail, , Vidya Rajaram
- [The Art and Science of Robust Decision-making Under Severe Uncertainty](#)
Moshe Sniedovich

RE-10: Data Mining 3

- [Support vector machines for credit scoring and discovery of significant features](#)
Anthony Bellotti, Jonathan Crook
- [The effects of data transformation on discriminatory power of bankruptcy prediction models](#)
Reza Shahi
- [Optimizing extraction of huge market information from the web.](#)
Jan Dedek, Leo Galambos

RE-11: Production Planning & Control II

- [A GRASP procedure for scheduling orders of multiple products on parallel machines with setups](#)
Manuel Mateo, Imma Ribas, Ramon Companys
- [Optimal Stockyard Scheduling](#)
Leorey Marquez, David Sier, Andreas Ernst, Richard Church, Dave Stevenson
- [PETRI NETS OF THE MATERIALS FLOW AT THE STEEL PLANT](#)
Piotr Lebkowski
- [Arena in the Petrochemical Operations Environment](#)
Lorraine Malherbe

RE-12: Finance: Emissions trading and power markets

- [Risk Management in Power Markets: The Hedging Value of Production Flexibility](#)
Hans-Jakob Lüthi, Max Fehr
- [Modelling the European electricity and emission market – the impact of different allocation rules](#)
Dominik Möst, Anke Esser, Massimo Genoese,
- [Design of Cap and Trade Schemes for Emission Markets](#)
Max Fehr, Hans-Jakob Lüthi

RE-13: Scheduling - Logistic

- [Integrated Project and Vehicle Routing Planning for Construction Projects](#)
Frank Schultmann, Nicole Sunke
- [Supply Network Optimization in Operations](#)
Jens Peter Kempkes
- [A Two-stage Scheduling Model for the In-flight Catering Service](#)
San Nah Sze, Daniel Oron, Ada Suk Fung Ng

RE-14: DEA Theory: New developments 6

- [DEA Performance Indexes Based on Distances to Efficient and Anti-efficient Frontiers](#)
Wenbin Liu
- [FAIRLY SHARING A NEW TOTAL FIXED INPUT VARIABLE WITH PARAMETRIC DEA](#)
Gustavo Freitas, Armando Milioni, José Virgilio Guedes Avellar
- [Framework for problem classification in DEA](#)
Dieudonne Kabongo Kantu, Theodor Stewart
- [A Convergence DEA Model](#)
Ayoob Sadeghiani

RE-15: Traffic Signal Control

- [Multiple Objective Traffic Signal Control for Urban Environments](#)
Sonal Ahuja
- [Solving a problem about control of traffic with use simultaneously from simulation and GA](#)
Mohammad ali Azadeh, Amin Sadegh Nia
- [Robust Optimal Traffic Signal Timing](#)
Yafeng Yin, Lihui Zhang

RE-17: Energy: Markets

- [The Application of Simulation Modeling to Support Multi Billion Rand Infrastructure Investment Decisions in Developing Economies](#)
Anton du Plooy, Cecil Lourens, Louis van der Walt
- [A technical-economic model for estimated efficient prices and resource allocation of biofuels for transport sector in Colombia](#)
Edgar Gutierrez Franco, Angela Ines Cadena, Fernando Palacios

RE-18: Cutting and Packing 4

- [The trim loss concentration in one-dimensional cutting stock problem \(1D-CSP\) by defining a virtual cost](#)
Mahdi Shadaloee
- [Optimal One-Dimensional Assortment Cutting from Fixed Stock Lengths](#)
Francois van Staden, Giel Hattingh, Tjaart Steyn, Peter Forbrig, Magderie van der Westhuizen

- [An approximation algorithm of the bin packing problem](#)
Nazahet fellah, Méziane Aïder

Friday

Friday, 8:00 AM - 9:30 AM

FA-1: Discrete optimization models and algorithms

- [Profit-based Latency Problems](#)
Sofie Coene, Frits Spieksma
- [An asymptotically optimal algorithm for m-layer 3-PAP with cyclic permutations.](#)
Yury Glazkov
- [Sequential testing under precedence constraints](#)
Tonguç Ünlüyurt, Bülent Çatay
- [Uniformly suboptimal solutions for combinatorial optimization problems with interval data uncertainty](#)
Igor Averbakh

FA-2: Economic Modeling 1

- [Dynamic prediction from elasticities in open populations: its application to the forecast of tax charges](#)
Teofilo Valdes, Carmen Anido
- [Functional separability and the consumer choice problem](#)
Ilko Vrankic, Zrinka Lukac

FA-3: Threat Evaluation / DSS

- [Rational-analytic decision making versus naturalistic \(or intuitive\) decision-making](#)
Winnie Pelser
- [Design of a threat evaluation decision support system](#)
Jaco Roux, Jan van Vuuren
- [Probability of attack by a fixed wing aircraft in a ground based air defence environment](#)
jacques du toit, Jaco Roux, Jan van Vuuren
- [Evaluation of a threat evaluation and weapon assignment system](#)
Basie Kok, Jan van Vuuren, Jaco Roux

FA-4: Stochastic Models

- [Combining decomposition and dynamic programming](#)
Pierre Girardeau, Kengy Barty
- [New developments in nonlinear smoothing](#)
Mardi Jankowitz

FA-5: Regulatory Networks, Inhibitors and Drug Design

- [Activity Prediction of Inhibitors by Mixed-Integer Linear Programming Based Hyper-Boxes Method](#)
Pelin Armutlu, Metin Turkey, Halil Kavakli, Fadime Uney Yuksektepe, M. Emre Ozdemir
- [Modeling of Regulatory Network](#)
Ugur KAPLAN, Metin Turkey
- [Mixed-Integer Nonlinear Programming in Structure-Based Drug Design](#)
Pinar Kahraman, Metin Turkey

FA-6: Fuzzy Computing and Its Applications

- [An interactive method for multi-objective fuzzy random programming](#)
javad nematian
- [A graph coloring approach for image segmentation](#)
Daniel Gomez Gonzalez, Javier Montero, Susana Muñoz
- [Evaluating Suppliers through a Mean of Removals based Fuzzy MCDM Approach](#)
Ta-Chung Chu, Yichen Lin

FA-7: Nonlinear Optimization

- [A Global Optimization Algorithm for the Nonlinear Sum of Ratios Problem](#)
Paulo Ferreira, Rúbia Oliveira
- [Robust Non-Linear Regression Models with Minimal Assumptions](#)
Magderie van der Westhuizen, Giel Hattingh, Hennie Kruger
- [Solving certain non-smooth and discrete problems with continuous nonlinear programming techniques](#)
Fabio Fagundes, Joao Lauro Faco', Adilson Elias Xavier
- [A decomposition algorithm for optimization of hydromechanical transmission systems](#)
Genrikh Levin

FA-8: Decision Support Systems 2

- [Diffusion of rumours among different clusters under non identical set up](#)
Asis Kumar Chattopadhyay
- [A Decision Support System for Multi-Objective Programming Problems](#)
Moeti Ramokgadi

- [Integrating GIS and Genetic Algorithm for a Class of Competitive Discrete Facility Location Problem](#)
Arifusalam Shaikh, Said Salhi, Malick M. Ndiaye

FA-9: Group decision making and voting

- [Strategic Power in the EU Council in Consultation and Codecision Procedures](#)
Mika Widgren
- [A Choice Model in Voting for a Political Party](#)
Ilkay Gultas
- [Dispersion of Group Judgments: The Geometric Expected Value Operator](#)
Luis Vargas

FA-10: Data Mining 4

- [The Effect of Agile Capabilities on Manufacturing Performance: a Bayesian Networks approach](#)
Behnam Ajdari
- [Pattern Languages – a novel facilitator for data mining](#)
Boris Delibasic, Kathrin Kirchner, Johannes Ruhland
- [A Decision Rule-based Method for Feature Selection in Predictive Data Mining](#)
Patricia Lutu, Andries P. Engelbrecht

FA-11: Lot Sizing

- [Solution approaches for the soft drink integrated production lot sizing and scheduling problem](#)
Deisemara Ferreira, Reinaldo Morabito, Socorro Rangel
- [Lot-sizing problem with supplier selection: complexity and algorithms](#)
Guohua Wan
- [Lot Size Optimization under Pooled and Unpooled Queuing Scenarios](#)
Silvanus Enns
- [Lot-sizing Problems with Time Windows and Shortages](#)
Nabil Absi, Stéphane Dauzère-Pérès, kedad-sdihoum safia

FA-12: Finance: Portfolio management and capital structuring

- [A Framework for Capital Structure Decisions](#)
Marc Schauten, Jaap Spronk
- [Multilevel Portfolio Management as a Single Level Problem](#)
Jaap Spronk
- [Islamic, Sharia compliant Portfolio Management](#)
Jaap Spronk

FA-13: Scheduling - Just-in-Time

- [Heuristic algorithms for minimizing earliness-tardiness penalties in one-machine scheduling around a common due date](#)
Ramon Alvarez-Valdes, Enric Crespo, , M^a Fulgencia Villa
- [Hybrid Genetic Algorithms for the Single Machine Scheduling Problem with Quadratic Earliness and Tardiness Costs](#)
Rui Alves, Jorge Valente, M. Rosario Moreira
- [Single Machine Scheduling to Minimize Maximum Earliness with Deadlines](#)
Guoqing Wang

FA-14: DEA: Applications in Industry 2

- [Performance analysis in wine sector based on the DEA methodology](#)
Tatiana Bouzdine - Chameeva
- [Roadmap to establish benchmark using Data Envelopment Analysis for Coal Mines](#)
Kethamokkala Sreenivasa Rao, Ujjwal Kumar Behera
- [A Methodology for Evaluating the Quality of State-sponsored Primary Health Care](#)
Jair dos Santos Lapa, João Neiva de Figueiredo, Dirceu Scaratti, M. Cristina M. Calvo

FA-15: Transportation planning and modeling

- [Making compatible two distinct zoning systems in transportation network models](#)
Lidia Montero, Esteve Codina
- [Urban Traffic Scenario and Transportation Planning Process for Bangalore](#)
Guruprasad Nagaraj, Kumaraswamy Y S
- [Spatial interaction in South Africa: A Quantitative analysis of travel data](#)
Hannelie Nel
- [Reliability based trip scheduling under uncertain travel time](#)
Barbara Siu, Hong K. Lo

FA-16: DEA: Applications in Finance and Banking 1

- [Modeling Performance Measurement for the Manufacturing Sector Listed on Jakarta Stock Exchange \(JSX\) Indonesia](#)
Handono Eko Prabowo, T, Emilyn Cabanda
- [Technical Efficiency of Megaworld Corporation Subsidiaries Measured by a slack-based Data Envelopment Analysis](#)
Noli Hernandez, Babeth Isa Fernando
- [Relative performance of equity markets: an assessment in the conventional and downside frameworks](#)
Carla Bainbridge, Don Galagedera
- [Evaluating the Profitability and Marketability Efficiency of Financial Holding Company](#)
Ling-Lang Tang, Yi-Wei Chu

FA-17: Energy: Policy and Planning

- [SCENARIO ANALYSIS IN ENERGY SECTOR WITH BAYESIAN CAUSAL MAPS](#)
Didem Cinar, Gulgun Kayakutlu
- [An agent-based Business Simulation for the long term analysis of electricity markets](#)
Daniel Ziegler, Christoph Weber
- [The Cofiring Problem of a Power Plant under Policy Regulations](#)
Hanna-Liisa Kangas, Jussi Lintunen, Jussi Uusivuori
- [Some monotonicity results for stochastic hydropower optimization models with concave rewards](#)
Bernard Lamond

FA-18: Cutting and Packing 5

- [Statistical Matching as a Packing Problem](#)
Ulrich Bartling
- [A survey on floorplan representations and algorithms in ASIC design](#)
Marisa Oliveira, M^a Eduarda Pinto Ferreira, A. Miguel Gomes
- [A Random Key Genetic Algorithm for a Facility Layout Problem](#)
José Fernando Gonçalves

Friday, 10:00 AM - 11:30 AM

FB-1: Local search and metaheuristics for combinatorial optimization problems

- [Genetic algorithms for the minimal doubly-resolving set problem](#)
Mirjana Cangalovic, Jozef Kratica, Vera Kovacevic-Vujcic, Dragos Cvetkovic
- [COMPARING METAHEURISTICS FOR THE QUARTET METHOD](#)
Sergio Consoli, Gijs Geleijnse, Kenneth Darby-Dowman, Jan Korst, Steffen Pauws
- [Neighborhoods and local search methods for subset selection problems](#)
Dag Haugland

FB-2: Economic Modeling 2

- [Planning and managing costs using ABC model](#)
Veljko Dmitrovic, Tijana Andric, Nevenka Zarkic Joksimovic
- [On the Use of Black-Box Models for Refinery Optimisation](#)
Aninda Chakraborty
- [Modeling Individual Behavior as a Box-Bounded Inverse Problem](#)
Kiyoshi Yoneda

FB-3: Metrics

- [Military Customer Satisfaction Index for War Supplies](#)
Jin Sook Ahn, So Young Sohn
- [The use of Decision Analysis tools to enhance assessment](#)
Camilla Andersson
- [Metrics for Evaluating Military Strategy](#)
Gerhard N. Engelbrecht
- [Health risks and safety of military divers exposed to transmitting sonar](#)
Martie Muller

FB-4: Markov Models and Brownian Motion

- [Fractal geometry of the zerosets of a Brownian motion.](#)
Willem Fouche
- [Local times of Brownian motion](#)
S Mukeru
- [An absorbing markov chain model for slot machine analysis](#)
Xiaoming Liu, Zhaotong Lian
- [Markov processes on the unity disk of a plane](#)
Monga Kalunda Luhandjula

FB-5: Modelling and Prediction of Genes, Proteins and Their Structure

- [Protein Folding Type Prediction via MILP](#)
Fadime Uney Yuksektepe, Metin Turkey
- [Signal Processing in Genome-Wide Association Studies](#)
Valentina Moskvina
- [Gene-Environment Networks in Environmental and Life Sciences](#)
Erik Kropat, Gerhard-Wilhelm Weber

FB-6: Fuzzy Decision Analysis and Preference Structures

- [Premium Allocation – Fuzzy Approach in Insurance Business](#)
Sanjeev Kumar
- [Multiple criteria with fuzzy weights for strategic partner selection](#)
sheu-hua chen, Hong Tau Lee
- [Multi Criteria Decision Making Problem For Supplier Selection Problem Using Fuzzy AHP](#)
Göksu Kaya
- [The Portfolio Selection in Fuzzy Dimensions](#)
Chung-Tsen Tsao

FB-7: Local Search

- [Variable neighbourhood search for design of experiments](#)
Kenneth Sørensen

- [GRASP with Evolutionary Path-Relinking for the Generalized Quadratic Assignment Problem \(GOAP\)](#)
Mauricio Resende, Ricardo Silva, Geraldo Mateus
- [A fuzzy tabu search algorithm for the vehicle routing problem with uncertain demands](#)
Jaber Jemai, Khaled Mellouli
- [A tabu search heuristic for concave minimum cost flow network problems](#)
Dalila Martins Fontes, Marta Monteiro, Fernando A. C. C. Fontes

FB-8: Problem Structuring and Solving

- [Understanding Optimization: the dilemma of trade-off balancing](#)
M. Can Arslan
- [COHERENT PLURALISM IN MANAGING PROBLEM SITUATIONS](#)
Slavica P. Petrovic
- [Lesson from Problem Structuring Methods and its Application](#)
Arabinda Tripathy
- [Design and Analysis of Computer Experiments: Generating Maximum Information for the Process Industry](#)
Roelof Coetzer, Diki Langley

FB-9: Multi-objective decision-making

- [Directing an Interactive Nonlinear Multiobjective Optimization Procedure by Using a Trade-off Analysis Tool](#)
Petri Eskelinen, Kaisa Miettinen
- [A New Approach for Solving Fuzzy MCDM Problems](#)
Jaroslav Ramik, Radomir Perzina
- [A multicriteria interactive method 'BLAM'](#)
Leila braik, Moncef Abbas
- [Branch and Bound Algorithm for Tri-Objective Assignment Problem](#)
Melih Özlen

FB-10: E-Commerce

- [Optimization methods against spam](#)
Catherine Roucairol, didier colin, Ider Tseveendorj
- [A Personalization Method and User Experience of Mobile Push Messages](#)
Joon Yeon Choeh, Hong Joo Lee, Sung Joo Park
- [Evaluating the impact of government policies and regulations on M-Commerce in India: a system dynamics modeling approach](#)
Rajluxmi Vaish Murthy, Deepali sharma, Krishna Sundar Diatha
- [Optimal allocation of overlapping inventory in on-line advertising](#)
John Tomlin, Deepak Agarwal

FB-12: Finance: Risk management in commodity markets

- [Integrated risk management in renewable conventional energy markets](#)
Silvana Stefani, Paolo Falbo, Daniele Felletti
- [The intervention of a specialist in thin stock prices](#)
Roy Cerqueti, Rosella Castellano
- [Forward contract to manage market power](#)
Rita D'Ecclesia

FB-13: Scheduling - Independent tasks

- [Algorithms for scheduling access to a shared resource](#)
Isabelle Nieuwoudt, Jan van Vuuren
- [A Scheduling Genetic Algorithm](#)
Paulo Pereira, Fernando A. C. C. Fontes, Dalila Martins Fontes
- [Sequencing unreliable jobs on parallel machines](#)
Paolo Detti, Alessandro Agnetis, Marco Pranzo, Manbir Sodhi

FB-14: DEA: Applications in Finance and Banking 2

- [Efficiency and Profitability of Different Branches of Islami Bank Bangladesh Limited \(IBBL\) in Bangladesh](#)
Mizanur Rahman
- [FACTORS AFFECTING EFFICIENCY IN THE TURKISH BANKING SECTOR BEFORE AND AFTER THE CRISIS: AN APPLICATION OF DEA AND TOBIT MODEL](#)
aziz kutlar, fehim bakirci, hüdaverdi bircan
- [National and Foreign Bank Branches After Nafta in Mexico](#)
Francisco Vargas, Luis Javier Preciado, Marisol Arvizu, Carlos Anaya
- [Do performance and environmental conditions behave as barriers for cross-country banking activity in Europe?](#)
Ana Lozano-Vivas, Jesús T. Pastor, Jesús T. Pastor

FB-15: Transit Planning and Operations

- [Public transportation network design model for the City of Tshwane Metropolitan Municipality](#)
Manuel Fletterman, Johan Joubert
- [What Express Services to Offer on a High Demand Transit Corridor?](#)
Juan Carlos Muñoz, Ricardo Giesen, Carola Leiva

FB-17: Energy: Optimization

- [Optimisation of coal supply to power stations in South Africa using MILP](#)
Paul van Nierop, Alwyn van der Merwe, Vera Haywood
- [Optimization of Energy Systems with Multi-objective Optimization Methods](#)
Ali Ozturk, Metin Turkey
- [Application of Multi-Criteria Dynamic Linear Programming Model to Supply Chain Management of Crude Oil in Nigeria](#)
Olusola Okesola

FB-18: Metaheuristics

- [Population diversity computation methods in genetic algorithms with application to the cell formation problem](#)
Aaron Luntala Nsakanda
- [A hybrid ant colony optimization algorithm applied to the production lines design problem](#)
Hicham CHEHADE, Farouk Yalaoui, Lionel AMODEO, Pascal DE GUGLIELMO
- [Simulation optimization via a hybrid Fuzzy logic-Genetic algorithm approach](#)
Mohammad Ali Azadeh, Mostafa Hamed, Sayyed Morteza Hatefi
- [Improving the Performance of Simulated Annealing for the Travelling Salesman Problem via Adaptive Cooling Schedule](#)
Aderemi Adewumi, Montaz Ali, Ebunoluwa Fasina, Ojo Ayeni

Friday, 12:00 PM - 1:00 PM

FC-1: Bringing Computers to the World

- [The Simputer Meme: A Retrospective](#)
Vijay Chandru