INVITED SPEAKERS

KEYNOTE SPEAKERS

Optimization by Unconventional Ant Algorithms
Nicolas Zufferey

A Robust Approach to Solve Mixed Integer Linear Optimization Problems with Uncertain Data
Marie-Christine Costa

Applications and Formulations of the Travelling Salesman Problem
Paul Williams

Robust Optimization
Jean Philippe Vial

METHODOLOGIES AND TECHNOLOGIES

FULL PAPERS

End of Discriminant Functions based on Variance-covariance Matrices
Shuichi Shinmura

Job Shop Scheduling and Co-Design of Real-Time Systems with Simulated Annealing
Danil A. Zorin and Valeriy A. Kostenko

A Multi-Agent Min-Cost Flow problem with Controllable Capacities - Complexity of Finding a Maximum-flow Nash Equilibrium
Nadia Chaabane Fakhfakh, Cyril Briand and Marie-José Huguet

A Fuzzy Approach based on Dynamic Programming and Metaheuristics for Selecting Safeguards for Risk Management for Information Systems
E. Vicente, A. Mateos and A. Jiménez-Martin

A Supply Chain Strategy Management Model for Small and Medium Sized Enterprises
Madani Alomar and Z. J. Pasek

A New Mathematical Model For the Minimum Linear Arrangement Problem
Mahdi Moeini, Serigne Gueye and Sophie Michel Loyal

A Case of the Container-Vessel Scheduling Problem
Selim Bora, Endre Boros, Lei Lei, W. Art Chaoulitwongse, Gino J. Lim and Hamid R. Parsaei

On the Use of Copulas in Joint Chance-constrained Programming
Michal Houda and Abdel Lisser

A Stochastic Programming Approach for Staffing and Scheduling Call Centers with Uncertain Demand Forecasts
Mathilde Excoffier, Céline Gicquel, Oualid Jouini and Abdel Lisser

Adapting the Covariance Matrix in Evolution Strategies
Silja Meyer-Nieberg and Erik Kropat
An Improved Relax-and-Fix Algorithm for the Fixed Charge Network Design Problem with User-optimal Flow
Pedro Henrique Gonzalez, Luidi Gelabert Simonetti, Carlos Alberto de Jesus Martinhon, Ecarillos Santos and Philippe Yves Paul Michelon

Analysis of Downward Product Substitution in a Recoverable System
Fethullah Gocer, S. Sebnem Ahiska and Russell E. King

Using MACBETH with the Choquet Integral Fundamentals to Model Interdependencies between Elementary Concerns in the Context of Risk Management
Diana F. Lopes, Carlos A. Bana e Costa, Mónica D. Oliveira and Alec Morton

Managing Price Risk for an Oil and Gas Company
António Quintino, João Carlos Lourenço and Margarida Catalão-Lopes

A Revisited Model for the Real Time Traffic Management
Astrid Piconese, Thomas Bourdeaud’huy, Mariagrazia Dotoli and Slim Hammadi

SHORT PAPERS

Method and System for Gender-oriented Targeted Advertising
Dmitry Mikhailov, Timur Khabibullin, Andrey Starikovskiy, Alexander Smirnov, Mikhail Froimson, Maxim Aristov and Vladimir Konev

A Split based Approach for the Vehicle Routing Problem with Route Balancing
Philippe Lacomme, Caroline Prodhon, Christian Prins, Xavier Gandibleux, Boris Beillelvaire and Libo Ren

Methodologies and Tools to Support Design and Development of New Products
Ana Dias, António Abreu and João Matias

An Overview of OR Models for Biomass Supply Chains
Birome Holo Ba, Christian Prins and Caroline Prodhon

An Approach to Measure Knowledge Transfer in Open-Innovation
António Abreu and Paula Urze

Statistical Process Control for a Limited Amount of Data
José Gomes Requeijo, António Abreu and Ana Sofia Matos

A Multi-objective Mixed-Integer Programming Model for a Multi-Section Operating Theatre Facility Layout
Abdelahad Chraibi, Said Kharraja, Ibrahim H. Osman and Omar Elbeqqali

The p-Median Problem with Concave Costs
Chuan Xu, Abdel Lisser, Janny Leung and Marc Letournel

Online Knapsack Problem with Items Delay
Hajer Ben-Romdhane and Saoussen Krichen

Dynamic Scheduling for Batch Data Processing in Parallel Systems
Mojahid Saeed Osman, Malick Ndiaye and Abdulrahim Shamayleh

Differential Evolution for Multiobjective Optimization of Process Design Problems
Antonio Ochoa-Robles, Catherine Azzaro-Pantel and Serge Domenech

A Development and Integration Framework for Optimisation-based Enterprise Solutions
Rodrigo Lankaites Pinheiro and Dario Landa-Silva
Statistical Methodology for Approximating G/G/1 Queues by the Strong Stability Technique
Aicha Bareche and Djamil Aissani

An Adaptive Tabu Search Algorithm for the Multi-Objective Node Placement Problem In Heterogeneous Networks
Ouss Abdelkhalek, Saoussen Krichen and Adel Guitouni

Iterated Local Search for a Vehicle Routing Problem with Synchronization Constraints
Nacima Labadie, Christian Prins and Yanyan Yang

The Development of Aerospace Sector in Morocco
Driss Rchid, Otmame Bouksour and Zitouni Beidouri

Development of a Model based on Evaluation Considering Explicit and Implicit Element in Multiple Criteria Decision Making
Rumiko Azuma and Shinya Nozaki

Weather Effect on Apparel Sales in France
Jean-Louis Bertrand and Xavier Brusset

Investment Lags - A Numerical Approach
M. Al-Foraih, P. Johnson and P. Duck

Classes of Complete Simple Games that are All Weighted
Sascha Kurz and Nikolas Tautenhahn

Heuristics for Scheduling Evacuation Operations in Case of Natural Disaster
Kaouthar Deghdak, Vincent T’kindt and Jean-Louis Bouquard

Taking Advantage of Partial Customer Flexibility - An Inexpensive Means of Improving Performance
Rhonda Righter

An i* based Approach to Support Strategic Decision in Virtual Enterprise
Clement Cherrey and Yan Liu

Optimal Product Line Pricing for Two Customer Segments with an Extension to Multi-Segment Case
Udatta S. Palekar, Govind Daruka and Manmeet Singh

Price-demand Modeling - A Tool to Support Inventory and Production Decisions for Competing Products
Peter Schuur, Asli Sencer and Bertan Badur

Dealing with Variations for a Supplier Selection Problem in a Flexible Supply Chain - A Dynamic Optimization Approach
Akram Chibani, Xavier Delorme, Alexandre Dolgui and Henri Pierreval

Motivations for the Development of a Multi-objective Algorithm Configurator
Nguyen Thi Thanh Dang and Patrick De Causmaecker

Simulation based Performance Analysis of an End-of-Aisle Automated Storage and Retrieval System
Behnam Bahrami, El-Houssaine Aghezzaf and Veronique Limère

Strategies to Optimize the Impact of Supplies Distribution in Post-disaster Operations
Christophe Duhamel, Daniel Brasil, Andréa Cynthia Santos, Eric Châtelet and Babiga Birregah
APPLICATIONS

FULL PAPERS

New Multi-product Valid Inequalities for a Discrete Lot-sizing Problem
Céline Gicquel and Michel Minoux

Media Mix Optimization - Applying a Quadratic Knapsack Model
Ulrich Pferschy, Joachim Schauer and Gerhild Maier

Integrated Supply Chain Network Design for Packaged Gases
Tejinder Pal Singh, Nicoleta Neagu, Michele Quattrone and Philippe Briet

General Lower Bounds for the Total Completion Time in a Flowshop Scheduling Problem - MaxPlus Approach
Nhat-Vinh Vo, Pauline Fouillet and Christophe Lenté

SHORT PAPERS

Shortest Path Challenging Problem - Context of Mobile Devices in Urban Area Considering Weakened GPS Signal and Data Network Traffic
Philippe Lacomme, Libo Ren, Nikolay Tchernev and Benjamin Vincent

Optimal Fixed Interval Satellite Range Scheduling
Antonio J. Vazquez and R. Scott Erwin

A Multicommodity Formulation for Routing in Healthcare Wireless Body Area Networks
Pablo Adasme, Abdel Lisser and Chuan Xu

Building Surgical Team with High Affinities - A Bicriteria Mixed-integer Programming Approach
Christine Di Martinelly and Nadine Meskens

Using Clustering Method to Solve Two Echelon Multi-Products Location-Routing Problem with Pickup and Delivery
Younes Rahmani, Ammar Oulamara and Wahiba Ramdane Cherif

Computational Study for Workforce Scheduling and Routing Problems
J. Arturo Castillo-Salazar, Dario Landa-Silva and Rong Qu

A Mixed-Integer Linear Program for Routing and Scheduling Trains through a Railway Station
Lijie Bai, Thomas Bourdeaudhuy, Besoa Rabenasolo and Emmanuel Castelain

The Uncertainty in the Home Health Care Assignment Problem
Afrae Errarhout, Saïd Kharraj and Andrée Matta

Approximation Methods for Determining Optimal Allocations in Response Adaptive Clinical Trials
Vishal Ahuja, John R. Birge and Christopher Ryan

Optimal Control for Forest Management in the Czech Republic
Jitka Janová and Jiří Kadlec

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