

Thursday, January 18, 2007

09:00-10:00	Registration + Coffee		
10:00-10:15	Welcoming Address by the Congress Chairman (Room A22)		
10:15-11:15	Plenary Session (Room A22) : Prof. Philippe Toint (Facultés Universitaires Notre-Dame de la Paix, Namur) Chair : F. Glineur <i>Filters: an efficient tool for nonlinear programming</i>		
11:15-11:45	Coffee break - Software and Book Exhibition		
11:45-13:00	A1: TIMETABLING (Room A22) Chair: P. Demeester Mark Moonen, Dirk Cattrysse, Dirk Van Oudheusden Police Patrol against Ram Raids and Holdups Peter Demeester, Patrick De Causmaecker, Greet Vanden Berghe Tackling the University Course Timetabling Problem in Stages by Subsequently Increasing the Number of Constraints Stefaan Haspeslagh, Patrick De Causmaecker Benchmarks for the Nurse Rostering Problems	B1: APPLICATIONS (Room A11) Chair: H. Pastijn Wouter Souffriau, Pieter Vansteenwegen, Dirk Van Oudheusden Calculating Touristic Travel Routes: a Case Study Hugo Pastijn, R. Van Loock, K. Mertens, W. Mees Simulation of a Crisis Management System for Disaster Relief Operations Daniel De Wolf, Bouchra Bakhouya The gas transmission problem : the new situation when the distribution and the transportation functions are disconnected	C1: PRODUCTION PLANNING (Room A13) Chair: H. Crauwels Charles Sitompul, El-Houssaine Aghezzaf Profit-Based Robust Aggregate Production Planning Sofie Coene, Frits C.R. Spijksma, Nguyen Van Hop, Joris van de Klunder A note on a motion control problem for a placement machine Herman Crauwels, Bart Verlinden, Dirk Cattrysse, Dirk Van Oudheusden Neighborhood search for integrated sheet metal production planning for laser cutting and air bending
13:00-14:00	Lunch Buffet / ORBEL Board Meeting		
14:00-15:40	A2: SCHEDULING (Room Chapelle) Chair: K. Vangheluwe Dries Goossens, Frits C.R. Spijksma, Sylvie Demasure Scheduling the national soccer league Koen Vangheluwe, Patrick De Causmaecker, Annick Dhooge, Wouter Souffriau An Ontology for Dynamic Resource Scheduling in a Distributed Environment Sadia Azem, Riad Aggoune, Stéphane Dauzère-Pérès A general model for job shop scheduling with limited machine availability Roel Leus, Pascale Crama, Bert De Reyck R&D-Project Scheduling with Technology Risks	B2: LOGISTICS (Room A11) Chair: W. Dullaert Birger Raaij Cyclically scheduling multiple tours for a single vehicle Andrey Ponomarev, Wout Dullaert A genetic algorithm for the berth allocation problem An Caris, Gerrit K. Janssens A Heuristic for the Full Truckload Pickup and Delivery Problem with Time Windows Olli Bräysy, Wout Dullaert, Geir Hasle, David Mester, Michel Gendreau An effective multi-restart deterministic annealing metaheuristic for the fleet size and mix vehicle routing problem with time windows	C2: NETWORKS (Room A13) Chair: B. Fortz Quentin Botton, Bernard Fortz Extended Node-Arc Formulation for the K-Edge-Disjoint Hop-Constrained Network Design Problem Gérard Colson, Mapapa Mbangala Total Factor Productivity Analysis of African telecommunication Networks at the stake of deregulation – What Lessons? Zlatka Avramova, Sabine Wittevrongel, Herwig Bruneel Capacity gain in a TV distribution network with IP-transported channels Hakan Ümit, Bernard Fortz Fast Heuristic Techniques for Intra-Domain Routing Metric Optimization
15:40-16:00	Coffee break - Software and Book Exhibition		
16:00-17:15	A3: SCHEDULING (Room Chapelle) Chair: H. Bruneel Francois Warichet, Yves Pochet Strengthening the Continuous Time Formulation of a Mixed Plant Cyclic Scheduling Problem Tom Maertens, Joris Walraevens, Herwig Bruneel Priority schemes with priority jumps: purpose and results Benoît Roland, C. Di Martinelly, F. Riane On the integration of resources' preferences in the operating theatre optimization	B3: LOGISTICS (Room A11) Chair: K. Sörensen Christophe Theys, Wout Dullaert, Willy Herroelen Routing order pickers in multiple bbck warehouses Tijs Vermeulen, Greet Vanden Berghe Agent based optimisation for harbour operations Kenneth Sörensen, Patrick Schittekat Supporting 3PL decisions in the automotive industry by generating diverse solutions to a large-scale location-routing problem	C3: MATHEMATICAL PROGRAMMING & SOFTWARE (Room A13) Chair: F. Glineur Bo Jensen Solving Linear Optimization Problems with MOSEK Jan Verelst, Phillip Huysmans, Herwig Mannaert, Kenneth Sörensen Exploring the Implications of Service-Oriented Architectures for Operations Research Software Francois Glineur Second-order cone optimization with a few second-order cones
20:00	Conference Dinner		

Friday, January 19, 2007

8:30-08:45	<i>Registration</i>		
08:45-10:00	A4: SUPPLY CHAIN MANAGEMENT (Room Chapelle) Chair: A. Akbalik Kobe Naesens, L. Pintelon, L. Gelders A game theoretical framework to allocate costs for resource pooling in inventory management Ayse Akbalik, Bernard Penz Comparison of sequential and simultaneous optimization to planify integrated supply chain activities: dynamic programming based heuristics Guy Aime Tanonkou, Lyes Benyoucef, Xiaolan Xie A Multi Period Stochastic Supply Chain Network with Unreliable Distribution Center	B4: STATISTICS & STOCHASTIC MODELS (Room A11) Chair: Steven De Bruyne Sophie Hautphenne Markovian binary trees for the investigation of the Belgian population Jean-Jacques Garroi, Peter Goos, Kenneth Sörensen A variable-neighbourhood search algorithm for finding optimal run orders of experimental designs Steven De Bruyne, Frank Plastria Principal Separation Analysis	C4: MATHEMATICAL PROGRAMMING (Room A13) Chair: Ph. Toint Milagros Garcia, Serge Gratton, Philippe L. Toint Neural network based Trust-Region Methods for Bound-Constrained Nonlinear Optimization Peter Malkin Truncated Gröbner basis methods for Integer Programming Hoai An Le Thi, Dinh Tao Pham, Van Vinh Nguyen New Cutting Plane Techniques Based DC Programming and DCA for Mixed Linear 0-1 Programs
10:00-10:30	<i>Coffee Break – Software and Book Exhibition</i>		
10:30-11:30	Plenary Session (Room Chapelle): Prof. Alain Hertz (GERAD & Ecole Polytechnique, Montréal) Chair: R. Bisdorff <i>Local Search Methods for Graph Coloring</i>		
11:30-12:00	ORBEL 2007 award ceremony (Room Chapelle) (sponsored by OM Partners) Chair: H. Pastijn		
12:00-13:00	<i>Lunch Buffet</i>		
13:00-14:15	A5: MCDM (Room Chapelle) Chair: J. Springael Philippe Nemery, Claude Lamboray, Laurent Huenaerts FlowSort : a sorting method based on flows Yves De Smet, M.A. Boujelben The sorting problem based on disjunctive categories: application of belief functions Johan Springael, Wim De Keyser A multicriteria method based on the aggregation of preferential rankings	B5: LOCATION (Room A11) Chair: G. Janssens Robert Chares, François Glineur Using structured conic optimization to solve the location problem with different norms Frank Plastria, Yoshiaki Ohsawa, Naoya Ozaki, Kazuki Tamura Quadratic Ordered Median Location Problems Gerrit K. Janssens, José Maria A. Pangilinan A genetic algorithm for storage location of containers at a seaport terminal	C5: QUEUEING (Room A13) Chair: D. Fiems Dieter Claeys, Koenraad Laevens, Bart Steyaert, Herwig Bruneel A discrete-time Queueing Model with Batch Service (ORBEL 2007 award lecture) Laurence Hoflack, Herwig Bruneel Packet buffers with session-based arrival streams Dieter Fiems, Herwig Bruneel Performance analysis of an error prone production system
14:15-14:20	<i>Short Break</i>		
14:20-15:35	A6: GRAPH THEORY (Room Chapelle) Chair: J.-L. Marichal F. Aykut Özsoy, Martine Labbé Clique Partitioning Problem With Lower and Upper Bounds on the SubClique Sizes Stefan Pickl, D. Lozovanu Max-Min Paths Problems on Networks - A Theoretical Foundation and First Results Raymond Bisdorff, Jean-Luc Marichal Counting non-isomorphic maximal independent sets of the n-cycle graph	B6: LOGISTICS (Room A11) Chair: V. Naessens Amir Salehipour, Peter Goos, Wout Dullaert, Kenneth Sörensen A heuristic algorithm for the traveling repairman problem Patrick Schittekat, Kenneth Sörensen, Marc Sevaux, Johan Springael A metaheuristic for solving large instances of the School Bus Routing Problem Vincent Naessens, Tijs Vermeulen A scalable and dynamic platform for collaboration in the transport sector	C6: APPLICATIONS (Room A13) Chair: P. Kunsch Genserik L. L. Reniers, W. Dullaert A novel decision support system to manage industrial area safety and security Katrien Ramaekers, Gerrit K. Janssens On the use of bounds on stop-loss premium for an inventory management decision problem Pierre L. Kunsch A procedure for determining discount rates in environmental management problems
15:35-15:50	<i>Coffee Break – Software and Book Exhibition</i>		
15:50-16:40	A7: MCDM & OPTIMIZATION (Room Chapelle) Chair: M. Pirlot Antonio Fiordaliso, Olivier Cailloux, Vincent Mousseau, Marc Pirlot, Philippe Vincke D2-Decision Deck: A generic Multiple Criteria Decision Aid Software Platform Rim Kalai, Daniel Vanderpooten Robustness: Limitations and Alternatives to the Min-max Approches	B7: ASSIGNMENT PROBLEMS (Room A11) Chair: F. Spieksma Hugo Pastijn, R. Van Loock Solving two human resource quadratic set partitioning problems Frits C.R. Spieksma Multi-Index Assignment Problems: Applications and Approximation	