Detailed program

Thursday 11:15-12:30

TA-1: COMEX Decision Making (C.611)

Chair: B. Fortz

- Testing Rationality of Collective Household consumption
  F. Talla Nobibon, L. Chechye, Y. Crama, T. Demuynck, B. De Rock, F.C.R. Spieksma
- On the statistical analysis of overlapping observations in large networks
  Y. Wang, J. Ramon
- Dantzig-Wolfe Reformulation for the Network Pricing Problem with Connected Toll Arcs
  B. Fortz, M. Labbé, A. Violin

TA-2: Production 1 (C.601)

Chair: E.-H. Aghezzaf

- Dynamic Product Portfolio Management with Life Cycle Considerations
  A.C. Zeballos, J.-S. Tancrez, R.W. Seifert
- Energy-Neutral Demand Response from a Large Population of batch-process loads
  A. Latiers, F. Glineur, E. De Jaeger
- Measuring Complexity in Mixed-Model Assembly Workstations
  L. Zeltzer, V. Limère, E.-H. Aghezzaf, H. Van Landeghem

TA-3: Global Optimization (C.602)

Chair: D. Claeys

- On jet-convex functions and their tensor products
  V. Shikhman, O. Stein
- Hybrid approach for generating laser cutting tool patterns
  R. Dewil, P. Vansteenwegen, D. Cattrysse
- Optimal group sizes for dynamic group screening
  D. Claeys, J. Walraevens, B. Steyaert, H. Bruneel

TA-4: Transportation 1 (C.603)

Chair: C. Vanovermeire

- Intermodal network design for freight transportation in Belgium – location of rail/road and road/inland waterway terminals
  M. Mostert, S. Limbourg
- Using Contraction Hierarchies to Find Dissimilar Paths in Transportation Networks
  S. Demeyer, M. Houbraken, T. Walcarius, P. Audenaert, D. Colle, M. Pickavet
- Analysis of different cost allocation methods in a collaborative transport setting
  C.Vanovermeire, D. Vercruysse, K. Sörensen

Thursday 14:00-15:40

TB-1: COMEX Health (C.611)

Chair: G. Vanden Berghe

- Planning the caregivers at Landelijke Thuiszorg
  P. A. Maya, M. Castro, K. Sörensen, and P. Goos
- Automatic Constraint Weight Extraction for Nurse Rostering: A Case Study
  M. Mihaylov, P. Smet and G. Vanden Berghe
- The overlapping case in an integrated staffing and rostering formulation
  Komarudin, M.-A. Guerry, G. Vanden Berghe, T. De Feyter
- Hardness analysis and a new approach for the shift minimisation personnel task scheduling problem
  P. Smet, T. Wauters, G. Vanden Berghe

TB-2: Routing (C.601)

Chair: G.K. Janssens

- Elementary shortest path problems for a multiple-trip vehicle routing problem
  Y. Arda, Y. Crama, H. Küçükaydin
- State of the art of vehicle routing problems with loading constraints
  H. Pollaris, K. Braekers, K. Ramaekers, G.K. Janssens, A. Caris
- The effect of customer characteristics on coalition gains in collaborative vehicle routing
  C. Defryn, C. Vanovermeire, K. Sörensen
- A time-dependent vehicle routing problem in the service area of intermodal terminals
  K. Braekers, A. Caris, G.K. Janssens

TB-3: Meta-Heuristics (C.602)

Chair: P. Vansteenwegen

- Multi-Objective Large Neighborhood Search
  R. Hartert, P. Schaus
- OscaR.cbls: an open source framework for constraint-based local search
  R. De Landtsheer, C. Ponsard
- The Budget-Constrained Min Cost Flow Problem
  S. Coene, F.C.R. Spieksma, P. Maya, K. Sörensen, P. Goos
- A Memetic Algorithm for the Orienteering Problem with Intermediate Facilities
  A. Divsalar, P. Vansteenwegen, D. Cattrysse

TB-4: Transportation 2 (C.603)

Chair: F.C.R. Spieksma

- Optimisation model for empty container repositioning
  F. Salmon, S. Limbourg

- The Red-Blue Transportation Problem
  W. Vancroonenburg, F. Della Croce, D. Goossens, F. Spieksma
- The ship placement problem: Decision support through exact decomposition
  J. Verstichel, P. De Causmaecker, G. Vanden Berghe
- The lockmaster's problem: a computational study
  W. Passchyn, S. Coene, F.C.R. Spieksma, G. Vanden Berghe, D. Briskorn, J. L. Hurink

Thursday 16:10-17:25

TC-1: COMEX Routing (C.611)

Chair: K. Sörensen

- An Adaptive Large Neighborhood Search for a Vehicle Routing Problem with Multiple Trips and Driver Shifts
  Y. Arda, Y. Crama, V. François
- New Metaheuristics for the Risk Constraint Cash-in-Transit Vehicle Routing Problem
  L. Talarico, K. Sörensen, J. Springael
- Routing for couriers: a multi-objective tabu search method to rebalance a tactical route plan with microzones
  J. Janssens, J. Van Den Bergh, K. Sörensen, D. Cattrysse

TC-2: Sets, Relations and Rankings (C.601)

Chair: B. De Baets

- A Set-Based Approach to the Decomposition of Linear Mixtures Using Quasi-Convex Programming
  J. Verwaeren, M. Rademaker, B. De Baets
- Dice representability of reciprocal relations
  K. De Loof, B. De Baets, H. De Meyer
- Using a natural monotonicity constraint as the basis of a ranking procedure
  M. Rademaker, B. De Baets

TC-3: Logistics (C.602)

Chair: S. Demeyer

- Automatic Aircraft Cargo Load Planning with Pick-up and Deliveries
  V. Lurkin, M. Schyns
- A tabu-embedded simulated annealing algorithm for a selective pickup and delivery problem
  T. Maes, K. Ramaekers, G.K. Janssens, A. Caris
- An insertion-based heuristic for the constrained pickup and delivery problem
  M. Houbraken, T. Walcarius, S. Demeyer, P. Audenaert, D. Colle, M. Pickavet, P. Demeester

Friday 9:00-10:15

FA-1: COMEX Logistics (C.611)

Chair: Y. Crama

- The cooperative facility location problem
  L. Verdonck, A. Caris, P. Beullens, K. Ramaekers, G.K. Janssens
- Two- and three-dimensional strip packing: a shaking procedure
  T. Wauters, J. Verstichel, G. Vanden Berghe
- Multiperiod vehicle loading with stochastic release dates
  Y. Arda, Y. Crama, Th. Pironet, D. Kronus, P. Van Hentenryck

FA-2: Production 2 (C.602)

Chair: D. Tuyttens

- Lexicographic optimization of a bi-objective permutation flow shop with time lags
  E. Dhouib, D. Tuyttens, J. Teghem, T. Loukil
- General lotsizing problem in a closed-loop supply chain with uncertain returns
  G. Amand, Y. Arda
- A branch and bound algorithm for a lexicographic optimization of a bi-objective permutation flowshop with time lags
  A. Vandaele, D. Tuyttens

FA-3: MIP (C.603)

Chair: T. Dokka

- The characterization of affine maximizers when there are only two alternatives: A technical note
  T. Marchant, D. Mishra
- Covering Linear Programs with Violations
  F, Qiu, S. Ahmed, S. S. Dey, L. A. Wolsey
- Approximation Algorithms for Multi-Dimensional Vector Assignment problems
  T. Dokka, Y. Crama, F.C.R. Spieksma

Friday 14:30-16:10

FB-1: COMEX Automatic tuning and organization (C.611)

Chair: T. Stützle

- From Grammars to Parameters: Automatic Design of Iterated Greedy Algorithms
  F. Mascia, M. López-Ibáñez, J. Dubois-Lacoste, T. Stützle
- Automatic algorithm selection for multi-mode resource-constrained project scheduling problems
  T. Messelis, P. De Causmaecker

- [Predicting parameter configurations for tuning effective algorithms on very large instances](#)
  F. Mascia, M. Birattari, T.Stützle
- [An Approach to the Automatic Configuration of a Generalized Metaheuristic Structures](#)
  M.-E. Marmion, F. Mascia, M. López-Ibáñez, T. Stützle

FB-2: Disaster, Water & Biology (C.602)

Chair: L. Porretta

- [SIMEDIS disaster management simulator: major road traffic accident](#)
  C. Ullrich, F. Van Utterbeeck, E. Dhondt, M. Debacker
- [Two-stage stochastic integer programming models for strategic disaster preparedness](#)
  A. Döyen, N. Aras, Y. Arda
- [Generation of synthetic water distribution networks](#)
  A. De Corte, K. Sörensen
- [A Class Representative Model for Pure Parsimony Haplotyping under Uncertain Data](#)
  D. Catanzaro, M. Labbé, L. Porretta

FB-3: Decision Making (C.603)

Chair: D. Goossens

- [Progressive multi-objective optimization](#)
  K. Sörensen, J. Springael
- [Elicitation procedures for the comparison of decisional maps](#)
  V. Brison, M. Pirlot
- [Designing a combinatorial auction for Solids](#)
  D. Goossens, F. Spieksma, S. Ondertal, J. Pijnacker
- [On a queue with customer deadlines](#)
  H.Bruneel, T. Maertens