DETAILED PROGRAM

Tuesday, 9:45 - 11:00

Tu.1.a: Arc Routing 1
Chairperson: C. Prins

A Variable Neighbourhood Descent Algorithm for a Real Waste Collection Problem with Mobile Depots
A. Del Pia, C. Filippi

Arc Routing Problems with Time-Dependent Service Costs
M. Gendreau, M. Tagmouti, J.Y. Potvin

Heuristic method for the sectoring-arc routing problem
P. Lacomme, M.C. Mourão, A.C. Nunes, C. Prins

Tu.1.b: Supply Chain Management
Chairperson: B.L. Golden

Analysis and Comparison of Typical Models within Supply Chain Management
H.J. Jorgensen, A. Larsen, O.B.G. Madsen

Solving the Concave Cost Supply Scheduling Problem Using a Genetic Algorithm
X. Wang, B.L. Golden, E. Wasil

Tuesday, 11:30 - 13:10

Tu.2.a: Location 1
Chairperson: C. Barnhart

A Cutting Plane method for the Capacitated Location-Routing Problem
J.M. Belenguer, E. Benavent, C. Prins, C. Prodhon, R. Wolfler-Calvo

Solving the Time Constrained Multi-Depot Location-Routing Problem with Lagrangian Relaxation
Z. Özyurt, D. Aksen

A GRASP for a Sales Territory Design Problem with Multiple Balancing Requirements
R.Z. Ríos-Mercado, E. Fernández

Network-Based Resource Allocation Problems Under Uncertainty
C. Barnhart, L. Marla

Tu.2.b: Freight Transportation 1
Chairperson: P. Zuddas

An optimization model for positioning containers in marine terminals
L.K. Sibbesen

Optimal Management of Empty Containers

M. Di Francesco, A. Manca, A. Olivo, P. Zuddas

Operational planning of long-haul intermodal freight transportation

M. Lombardo, V. Recagno, M. Paolucci, S. Sacone, S. Siri

Single Freight Carrier Collaboration Problem

S. Hernández, S. Peeta

Tuesday, 15:00 - 16:15

Tu.3.a: Arc Routing 2

Chairperson: E. Fernández

Exact Solutions of mixed CARP instances

V. Maniezzo, R. Baldacci

Prize-collecting Arc Routing Problems and Extensions

J. Aráoz, E. Fernández, C. Franquesa, O. Meza

Using Column Generation to Solve Capacitated Arc Routing with Time Windows

E.J. Johnson, S. Woehlk

Tu.3.b: Multiple Agents

Chairperson: J. Barceló

An Incentive Compatible Dynamic Mechanisms for Carrier Collaboration

M. A. Fligliozzi

Applying revenue management to real-time transportation planning

A.M. Douma, P.C. Schuur

Preference elicitation in combinatorial reverse auctions for collaborative transportation planning

G. Pankratz, H. Gehring

Tuesday, 16:45 - 18:25

Tu.4.a: Single Vehicle Routing

Chairperson: J.F. Cordeau

An exact algorithm for the robust travelling salesman problem with interval data

R. Montemanni, J. Barta, L.M. Gambardella

Branch-and-Cut for the Pickup and Delivery Traveling Salesman Problem with LIFO Loading

J.F. Cordeau, M. Iori, G. Laporte, J.J. Salazar

The Tour Orienteering Problem with Time Windows

R. Mansini, M. Pelizzari, R.W. Calvo

Decremental state space relaxation algorithms for the orienteering problem with time windows

G. Righini, M. Salani

Tu.4.b: City Logistics 1

Chairperson: D. Vigo

A Demand Model for Freight Movements in City Logistics Applications
     G. Gentile, D. Vigo
Distribution strategies under urban freight policy pressure
     H. Quak
Framework of Freight Transport Network Design for City Logistics
     T. Yamada, E. Taniguchi
Multi-agent modelling for city logistics
     E. Taniguchi, T. Yamada, D. Tamagawa

Wednesday, 9:00 - 11:05

We.1.a: Vehicle Routing 1

Chairperson: G. Laporte

A Unified Modelling and Solution Framework for Vehicle Routing and Local Search based Metaheuristics
     S. Irnich
General Solutions to the Single Vehicle Routing Problem with Pickups and Deliveries
     I. Gribkovskaia, O. Halskau, G. Laporte, M. Vlcek
A Heuristic approach to the Vehicle Routing Problem with Time Windows and Simultaneous Pick-up and Delivery
     A. Nikolakopoulos, H. Sarimveis
Pickup and Delivery with Split Loads
     M. Nowak, O. Ergun, C. White
Solving a Pickup and Delivery Problem with Sequencing Constraints
     H.L. Petersen

We.1.b: City Logistics 2

Chairperson: E. Taniguchi

Dynamic Incident Handling in Urban Freight Distributions
     V. Zeimpekis, G.M. Giaglis, I. Minis
Modelling vehicle routing and scheduling with uncertainty of travel times
     E. Taniguchi, T. Yamada and N. Ando
Vehicle Routing and Scheduling for City Logistics
     R.G. Thompson, K. Hassall
Vehicle Routing and Scheduling Models, Simulation and City Logistics
     J. Barceló, H. Grzybowsca, S. Pardo
Practical Origin-Destination traffic flow estimation
     R. Gabrielli, A. Guidazzi, M.A. Boschetti, M. Roffilli, V. Maniezzo

Wednesday, 11:30 - 13:10

We.2.a: Inventory Routing

Chairperson: H.S. Mahmassani

A Branch-and-Cut Algorithm for a Vendor Managed Inventory-Routing Problem
> C. Archetti, L. Bertazzi, G. Laporte, M.G. Speranza

Analysis of Direct Shipping Policies in an Inventory Routing Problem with Time Discretization
> L. Bertazzi

Column Generation and Constraint Programming for solving an Inventory Routing Problem in the Reverse Logistics Context
> E. Grellier, P. Dejax, N. Jussien, Z. Lu

Real-Time Strategies for the Online Inventory Routing Problem
> R. Giesen, H.S. Mahmassani, P. Jaillet

We.2.b: Freight Transportation 2

Chairperson: C. Bierwirth

Multiple vehicle flow estimation for determining freight corridors in Mexico City
> A Lozano, J.P. Antún, F. Granados, V. Torres, G. Londoño, A. Zamarripa

A Coordination Model for Transportation Networks
> S. Berger, C. Bierwirth

Freight Service Design for an Italian Railways Company
> M. Campetella, G. Lulli, U. Pietropaoli, N. Ricciardi

The Integrative Freight Market Simulation: Algorithmic Solutions
> E. Thorson, J. Holguín-Veras

Wednesday, 15:00 - 16:40

We.3.a: Vehicle Routing 2

Chairperson: J.J. Salazar

A Tabu Search Method for Solving an Urban Transport Model
> M. Laguna, J. Pacheco

Solving a School Bus Routing Problem
> J. Riera-Ledesma, J.J. Salazar

Waiting Strategies for Anticipating Customer Service Requests at Known Customer Locations
> B.W. Thomas

Opportunity costs calculation in agent-based vehicle routing and scheduling
> M.R.K. Mes, M.C. Van der Heijden

We.3.b: Hazardous Materials Transportation

Chairperson: F. Semet

A Bilevel Approach for the Hazardous Materials Routing Problem
     L. Brotcorne, P. Marcotte, M. Wiart
A heuristic method for solving a hazardous waste collection routing problem
     C. Boulanger, F. Semet
A Tactical Planning Model for the Railroad Transportation of Hazardous Materials
     V. Verter, M. Verma, M. Gendreau
An integrated bicriteria model and a heuristic approach for a hazardous wastes transportation problem
     C. Boulanger, F. Semet, P. Vaca

Wednesday, 17:15 - 19:20

We.4.a: Vehicle Routing 3

Chairperson: M.G. Speranza

A Dynamic Multi-Period Routing Problem
     E. Angelelli, M. W. P. Savelsbergh, M.G. Speranza
A Branch and Price approach for the multiperiod service routing problem with time windows
     F. Tricoire, N. Bostel, P. Dejax, P. Guez
Flexibility and Complexity in Periodic Distribution Problems
     K. Smilowitz, P. Francis, M. Tzur
Delivery Strategies for Periodic Blood Products Supplies
     K.F. Doerner, R.F. Hartl, V. Hemmelmayr, M.W.P. Savelsbergh

We.4.b: Freight Transportation 3

Chairperson: M. Christiansen

An aggregated system of transport models for the Mediterranean free trade zone
     F. Russo, V. Assumma
Complex ship routing and scheduling
     M. Christiansen, K. Fagerholt, Ø. Haugen, E. H. Lund
Schedule based approach for maritime freight services
     F. Russo, A. Vitetta, C. Rindone, F. Cirianni
Ship scheduling with flexible cargo quantities: A heuristic solution approach
     J.E. Korsvik, K. Fagerholt, G. Brønmo
Cargo revenue management: capacity inventory control when demand is not independent
     L. Castelli, R. Pesenti, W. Ukovich

Thursday, 9:00 - 11:05

Th.1.a: Vehicle Routing 4
Chairperson: O.B.G. Madsen

A Composite Heuristic for the Vehicle Routing Problem with Time Windows and Time-Varying Travel Times
   M. Stickel, B. Seidl, K. Furmans
An initial solution generating algorithm for the Vehicle Routing Problem with Time Windows
   C. Simón, F. Cano, S. Cano, A. Felipe
Formulations and exact approaches for the vehicle routing problem with time windows
   B. Kallehauge
Recent advances in the Vehicle Routing Problem with Time Windows
   B. Kallehauge, J. Larsen, O.B.G. Madsen, M. Solomon
Routing for Relief Efforts
   A.M. Campbell, D. Vandenbussche, W. Hermann

Th.1.b: Network Design
Chairperson: B. Gendron

Exact Methods for Multicommodity Capacitated Fixed Charge Network Design
   M. Chouman, T.G. Crainic, B. Gendron, E. Naudin
Solving a Network Design Problem
   I. Rodríguez, J.J. Salazar
Stochastic network design – is there a practical way forward?
   A.G. Lium, T.G. Crainic, S.W. Wallace
Stochastic Service Network Design: Solving Large Instances Using Metaheuristics
   A. Hoff, A. Lokketangen, T.G. Crainic, A.G. Lium
Colour-coding heuristic approaches for the balanced path problem
   P.Cappanera, G. De Pascale, M.G. Scutellà

Thursday, 11:30 - 13:10

Th.2.a: Vehicle Routing 5
Chairperson: R.W. Eglese

A Branch-and-Cut algorithm for the Capacitated Open Vehicle Routing Problem
   A.N. Letchford, J. Lysgaard, R.W. Eglese
Branch-and-Cut-and-Price for the Pickup and Delivery Problem with Time Windows
   S.Ropke, J.F. Cordeau
Lower Bounds and an Exact Method for the Capacitated Vehicle Routing Problem
   R. Baldacci, A. Mingozzi
Worst-Case Analysis for Split Delivery Vehicle Routing Problems
   C. Archetti, M.W.P. Savelsbergh, M.G. Speranza

Th.2.b: Routing/Scheduling

Chairperson: G. Ghiani

Real-time Fleet Management in the Courier Industry
      J. Bregman, G. Ghiani, E. Manni, A. Quaranta, R. Musmanno
Robust Optimization for Empty Repositioning Problems
      A.L. Erera, J.C. Morales, M.W.P. Savelsbergh
The Vehicle Routing Problem with Trailers and Transhipments
      M. Drexl
Real-time Schedule Recovery under Vehicle Breakdown
      J.Q. Li, P.B. Mirchandani, D. Borenstein

Friday, 9:00 - 11:05

Fr.1.a: Vehicle Routing 6

Chairperson: G. Desaulniers

Structure Guided Local Search for Vehicle Routing Problems
      A. Cardeneo
A Heuristic Approach to Planning Service Technician Operations for a Utility Company
      B. Bozkaya, B. Cao
A memetic algorithm with population management for the heterogeneous fleet VRP
      N. Labadi, P. Lacomme, C. Prins
Comparison of Heuristic Approaches for the Multi-Depot Vehicle Scheduling Problem
      G. Desaulniers, A. Hertz, A.S. Pepin, G. Dereu
Optimising Environmental Routes using ALGACEA-3
      J. San Miguel, D. Monje, S. Úbeda, F. Faulín

Fr.1.b: Terminal Management

Chairperson: T.G. Crainic

Optimal control of maritime container terminals for tactical-operational planning
      A. Alessandri, S. Sacone, S. Siri
A discrete event simulation model for a container terminal
      A. Cartenì, S. De Luca
The Allocation of Storage Space for Transhipment in Vehicle Distribution
      Dirk C. Mattfeld
Integrated Seaside Operations Planning in a Container Terminal
      F. Meisel, C. Bierwirth
Extreme-Point-Based Heuristics for Three-Dimensional Packing Problems
      T.G. Crainic, G. Perboli, R. Tadei

Friday, 11:30 - 13:10

Fr.2.a: Vehicle Routing 7

Chairperson: M.W.P. Savelsbergh

Multilevel Refinement for the Vehicle Routing Problem

       D. Rodney, A. Soper, C. Walshaw

Abstraction and Aggregation Techniques for Solving Real-life, Huge-Scale Vehicle Routing Problems

       G. Hasle

A Robust Optimization Framework for the Vehicle Routing Problem with Uncertain Demands and Duration Constraints

       J.C. Morales, A.L. Erera, M.W.P. Savelsbergh

Capacitated Vehicle Assignment-Routing Problem with Due Dates

       M. Albareda, E. Molina, C. Simón, A. Alonso

Fr.2.b: Intermodal Transportation

Chairperson: M. Gendreau

Intermodal Freight Transportation Demand Estimation using Neural Networks

       I. Bilegan, T.G. Crainic, M. Gendreau

Optimizing intermodal transfers

       J. Andersen, T.G. Crainic, M. Christiansen

Modelling Intermodal Networks

       J.H.R van Duin

Determining optimal flows in sea-land intermodal transport

       N.L. Ma, E. Hadjiconstantinou

Friday, 15:00 - 16:15

Fr.3.a: Location 2

Chairperson: A. Marín

The Capacitated and Distance Constrained Plant Location Problem

       M. Albareda-Sambola, E. Fernández, G. Laporte

A reduced formulation for the multiple allocation p-hub location problem

       M. Landete, A. Marín

Robust Capacitated International Sourcing Problem

       J.L. González-Velarde, R. Martí

Fr.3.b: Inventory Routing/Disaster Response

Chairperson: S. Peeta