

VEROLOG2012 Programme at a glance

Time	Slot Id	1 Aula 6.1	2 Aula 6.2	3 Aula 5.6	4 Aula 5.7	5 Aula 5.4
10.00	MOA	Opening (6.1)				
11.00	MOB	Plenary Moehring (6.1)				
12.00		Lunch (Terrace)				
13.45	MOC	Loading and Split	Exact	Bike and Public Transport	DSS and Software	Applications 1
16.00		Break				
16.15	MOD	Extra Constraints 1	Synchronization 1	VRPs with Profit	Pickup and Delivery	Rich VRPs 1
18.00		Welcome Cocktail (Terrace)				
8.30	TUA	Heuristics	Periodic VRPs	Applications 2	Variants	Trains et al.
10.45		Coffee Break				
11.15	TUB	Extra Constraints 2	Synchronization 2	Ships and Harbours	Visit Policies	Inventory
13.00		Lunch (Terrace)				
14.30	TUC	Plenary Laporte, Fischetti (6.1)				
15.30	TUD	Tutorial Gruenert (6.1)				
20.00		Social Dinner (Cantina Bentivoglio)				
9.00	WEA	Extra Constraints 3	Synchronization 3	Rich VRPs 2	Dynamic and Stochastic	Arc Routing
10.45		Coffee Break				
11.15	WEB	Plenary Gendreau (6.1)				
12.15		Lunch (Terrace)				
13.45	WEC	Green VRPs	VRPTW	Time Dependent VRPs	TSP	
15.30	WED	Closing (6.1)				

Technical Programme Overview

Plenary Lectures

Network Routing - Integrating Dynamic Network Flows and Scheduling, **Rolf Moehring**, Technical University, Berlin, Germany, Monday, June 18th, Aula 6.1

Thirty Years of Vehicle Routing Research: part I, **Gilbert Laporte**, CIRRELT and HEC Montréal, Canada, Tuesday, June 19th, Aula 6.1

Thirty Years of Vehicle Routing Research: part II, **Matteo Fischetti**, DEI, University of Padova, Italy, Tuesday, June 19th, Aula 6.1

An Overview of Stochastic Vehicle Routing, **Michel Gendreau**, MAGI and CIRRELT, École Polytechnique, Montréal, Canada, Wednesday, June 20th, Aula 6.1

Tutorial

GIS and digital maps for routing in commercial decision support systems, **Tore Gruenert** GTS Systems, Germany. Tuesday, June 19th, Aula 6.1

Software demonstrations

To be scheduled

Session Rooms

Room 1: Aula 6.1

Room 2: Aula 6.2

Room 3: Aula 5.6

Room 4: Aula 5.7

Room 5: Aula 5.4

Monday, June 18th, 2012

Session MOA1: Opening Session

time: 10:00-11:00

room: Aula 6.1

chair: Daniele Vigo

Session MOB1: Plenary Lecture

time: 11:00-12:00

room: Aula 6.1

chair: Paolo Toth

Network Routing - Integrating Dynamic Network Flows and Scheduling
Rolf Möhring

Session MOC1: Loading Problems and Split Delivery

Contributed Session

time: 13:45-16:00

room: Aula 6.1

chair: S. Salhi

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1. A Hybrid Heuristic Algorithm for Truck Loading, Routing and Carrier Assignment
Dario Landa-Silva
 2. Vehicle routing with restricted loading capacities
A. Leendert Kok Joaquim Gromicho Jelke J. van Hoorn
 3. Capacitated vehicle routing problem with two dimensional loading constraints and freight handling at service points (2LCVRP-H)
Ricardo Giesen Achille Limone Juan Carlos Muñoz
 4. A vehicle routing problem with split loads and date windows
Julio Mar-Ortiz José Luís González-Velarde Belarmino Adenso-Diaz
 5. Solving the Split Delivery Vehicle Routing Problem Using Guided Route Generation Schemes for the Set Covering-Based Models
Said Salhi Nurul Hudabinti Mohamed Gábor Nagy

Session MOC2: Exact Approaches

Contributed Session

time: 13:45-16:00

room: Aula 6.2

chair: G. Perboli

1. A polyhedral approach for generalizing the Miller-Tucker-Zemlin subtour elimination constraints for routing problems
Tolga Bektas Luís Gouveia
2. An Exact Algorithm for the Capacitated Arc Routing Problem with Deadheading Demand
Enrico Bartolini Jean-François Cordeau Gilbert Laporte
3. An Optimization Algorithm for the Mixed Capacitated General Routing Problem
Demetrio Laganá Adamo Bosco Roberto Musmanno Francesca Vocaturo
4. In-Depth Analysis of Pricing Problem Relaxations for the CARP
Stefan Irnich Claudia Bode
5. Rich Packing Problems arising in Transportation and Logistics
Guido Perboli Mauro Maria Baldi Teodor Gabriel Crainic Roberto Tadei

Session MOC3: Bike Sharing and Public Transportation

Contributed Session

time: 13:45-16:00

room: Aula 5.6

chair: M. Boegl

1. Dynamic Repositioning in Bike-Sharing Systems
Tal Raviv Dana Pessach Michal Tzur
2. Mathematical Formulations and Branch-and-Cut to Solve the Bike Rebalancing Problem
Stefano Novellani Mauro Dell'Amico Eleni Hadjicostantinou Manuel Iori
3. An integrated approach for the design of Demand Responsive Transportation services
Rui Jorge Reis Gomes Jorge Pinho de Sousa Teresa Galvão
4. An ALNS and route scheduling algorithms for the Dial-A-Ride Problem with Transfers
Fabien Lehuédé Renaud Masson Olivier Péton
5. The school bus routing and scheduling problem with mixed loads and transfers
Michael Böegl Karl F. Doerner Sophie N. Parragh

Session MOC4: Decision Support Systems and Software Applications

Contributed Session

time: 13:45-16:00

room: Aula 5.7

chair: T. Pigden

1. Commercial Vehicle Routing
Olli Bräysy Geir Hasle
2. E-services for freight transport optimisation in SMEs
Flavio Bonfatti Stefano Dondi Paola Daniela Monari Alberto Preti
3. Routing algorithm implemented in a mobile that runs in local
Laia Descamps-Vila Jordi Conesa A. Pérez-Navarro Joan Casas
4. A Library of Vehicle Routing Problems
Tim Pigden Graham Kendall Ender Özcan Richard Eglese
5. Solution of Real-World Waste Collection Problems
Daniele Vigo

Session MOC5: Applications of VRP 1

Contributed Session

time: 13:45-16:00

room: Aula 5.4

chair: E. Malaguti

1. Choosing Profitable Customers in Routing Problems
Menkes van den Briel Philip Kilby
2. A Vehicle Routing Modelling Approach For The Persistent Coverage Problem Using Multiple Aerial Platforms
Dimos Loukas Alessio Ishizaka Jana Ries Djamilia Ouelhadj Ashraf Labib Dylan Jones
3. Vehicle Routing with redistributing equipment
Jelke J. van Hoorn Joaquim Gromicho A. Leendert Kok
4. A Hierarchical Optimization and Clustering for Large Scale Disaster Relief
Onur Demir Linet Ozdamar
5. A Procedure for the Control of a Public Transport Service
Enrico Malaguti Andrea Lodi Nicolás E. Stier-Moses Tommaso Bonino

Session MOD1: VRPs with Extra Constraints 1

Invited Session **time:** 16:15-18:00 **room:** Aula 6.1 **chair:** J.J. Salazar

1. A Branch-and-Cut-and-Price algorithm for the Minimum Latency Capacitated Vehicle Routing Problem
Jens Lysgaard Sanne Wøhlk
2. A Column Generation Algorithm for Multi-Depot Vehicle Routing Problem with Inter-Depot Routes
Ibrahim Muter Jean-François Cordeau Gilbert Laporte
3. Formulation and constructive heuristics for the close-open VRPTW
José A. Moreno Julio Brito Airam Expósito Francisco J. Martínez
4. Solving the one-commodity Pickup-and-Delivery Single Vehicle Routing Problem with Split Demands
Juan José Salazar-González Beatriz Santos Hernández

Session MOD2: VRPs with Multiple Synchronization Constraints 1

Invited Session **time:** 16:15-18:00 **room:** Aula 6.2 **chair:** M. Drexler

1. The Driver Routing Problem
Johan Oppen
2. Balancing a Dynamic Public Bike-Sharing System
Louis-Martin Rousseau Claudio Contardo Catherine Morency
3. A Comparison of a Two-Step Method with an Integrated Approach for Simultaneous Container and Truck Routing
Sebastian Sterzik Herbert Kopfer Won-Young Yun
4. Models and heuristics for policy-oriented support on urban delivery consolidation and synchronization
Jesus Gonzalez-Feliu Tai-Yu Ma Josep-Maria Salanova Grau

Session MOD3: VRPs with Profit

Invited Session **time:** 16:15-18:00 **room:** Aula 5.6 **chair:** M.G. Speranza

1. A Hybrid Heuristic for an Inventory-Routing Problem
Claudia Archetti Luca Bertazzi Alain Hertz Maria Grazia Speranza
2. An ILP-Refined Tabu Search for the Directed Profitable Rural Postman Problem
Gianfranco Guastaroba Claudia Archetti Maria Grazia Speranza
3. Metaheuristics for the Time-Dependent Orienteering Problem
Cédric Verbeeck Pieter Vansteenwegen
4. The Capacitated Team Orienteering Problem with Incomplete Service
Maria Grazia Speranza Claudia Archetti Nicola Bianchessi

Session MOD4: Pickup and Delivery Problems

Contributed Session

time: 16:15-18:00

room: Aula 5.7

chair: G. Nagy

1. Modelling carrier decisions in an activity-based freight transportation framework: a pickup and delivery selection problem
Maes Tabitha An Caris Katrien Ramaekers Gerrit K. Janssens
2. The Pickup-and-Delivery Problem with Transshipment
Abdur Rais
3. A New VRPPD Model and a Hybrid Heuristic Solution Approach for E-Tailing
Burcin Bozkaya Seda Ugurlu Ronan Jouan de Kervenaol
4. The Vehicle Routing Problem with Divisible Deliveries and Pickups
Gábor Nagy Niaz A. Wassan Maria Grazia Speranza Claudia Archetti

Session MOD5: Rich VRPs 1

Contributed Session

time: 16:15-18:00

room: Aula 5.4

chair: W. Dullaert

1. Computational results with a Branch-and-cut code for the Single Truck and Trailer Routing Problem with Satellite Depots
Enrique Benavent Manuel Belenguer Antonio Martínez Christian Prins Caroline Prodhon Juan G. Villegas
2. Logistics of Clinical Testing: A Prioritized Bicriteria Heuristic for Collection for Processing Problem
Sibel Salman E. Yücel E.L. Örmeci E.S. Gel
3. Adaptive Large Neighborhood Search Heuristic for Two-Echelon Vehicle Routing Problems Arising in City Logistics
Vera C. Hemmelmayr Jean-François Cordeau Teodor Gabriel Crainic
4. Integrated distribution network design: exploiting the benefits of joint location-routing optimization
Wout Dullaert Olli Bräysyi

Session MOE: Welcome Cocktail

time: 18:00-19:30

room: Terrace

Tuesday, June 19th, 2012

Session TUA1: Heuristic Approaches

Contributed Session

time: 8:30-10:45

room: Aula 6.1

chair: H. Lourenco

1. Phormone-based Heuristic Column Generation for the Vehicle Routing Problem with Black Box Feasibility
Florence Massen Yves Deville Pascal Van Hentenryck
2. Cross Entropy Based Algorithms for Vehicle Routing Problems
Marta Cabo Nodar Edgar Possani
3. Hybrid Construction Heuristics for Vehicle Routing Problem
Hok Lie Philip Kilby
4. Fleet Size and Mix Vehicle Routing Problem with Backhauls: A Set Partitioning based Heuristic
Niaz A. Wassan Said Salhi Mutaz Hajarat
5. A Randomized Hybrid Algorithm based on Savings and Vehicle Assignment Policies for the Heterogeneous Vehicle Routing Problem
Helena R. Lourenço Jose Caceres-Cruz Alex Grasas Ángel A. Juan Mercé Roca

Session TUA2: Periodic VRPs

Contributed Session

time: 8:30-10:45

room: Aula 6.2

chair: S. Binart

1. Algorithmic approaches to solving multi-period sales force master routing problems
Angela Liza Rademeyer
2. MS-ILS for a periodic Vehicle Routing Problem with security constraints
Julien Michallet Christian Prins Lionel Amodeo Farouk Yalaoui Gregoire Vitry
3. A constraint programming based approach for planning milk runs
Anne Meyer
4. Real-time optimization of reactive technician tours
Sixtine Binart Pierre Dejax Michel Gendreau Frédéric Semet
5. Scheduling policies for periodic collection
Cristina Nuñez del Toro Elena Fernández Stefan Nickel Jörg Kalcsics

Session TUA3: Applications of the VRP 2

Contributed Session

time: 8:30-10:45

room: Aula 5.6

chair: M.G. Scutellá

1. Effective supporting decisions tools for Logistics and Global Supply Chain
Riccardo Accorsi Riccardo Manzini Emilio Ferrari Arrigo Pareschi
2. Quadratic Models for Hub-Location Problems revisited
Frank Baumann Jens Baudach Christoph Buchheim Uwe Clausen Fabian Meier
3. Integration of Allocation for Hubs and Multiple Travelling Salesman Problem with Simultaneous Pick Up and Delivery
Zuhal Kartal Servet Hasgul Andreas T. Ernst
4. Looking forward to the integration between production planning and distribution to multiple clients
Roberto Fernandes Tavares Neto Marc Reimann
5. Joint assignment and scheduling models to home care
Maria Grazia Scutellá Paola Cappanera

Session TUA4: Variants of the VRP

Contributed Session

time: 8:30-10:45

room: Aula 5.7

chair: A.D. Lopez-Sanchez

1. A metaheuristic algorithm based on a Granular Tabu Search within a Variable Neighborhood Search for the capacitated location-routing problem
John Willmer Escobar Paolo Toth Rodrigo Linfati Maria Gulnara Baldoquin
2. A Rich Vehicle Routing Problem with Multiple Trips and Driver Shifts
Hande Küçükaydin Yasemin Arda Yves Crama Fabrice Talla Nobibon
3. A Metaheuristic Method for the Multi Trip Vehicle Routing Problem
Diego Cattaruzza Nabil Absi Dominique Feillet
4. Offshore Windfarm Infield Cable Layout – An Application of Facility Location and Capacitated Open Vehicle Routing
Joanna Bauer Stian Skauge
5. A GRASP algorithm for a real-world Multi-objective Open Vehicle Routing Problem
Ana Dolores López-Sánchez
Rafael Caballero Alfredo G. Hernández-Díaz Julián Molina Macarena Tejada Daniele Vigo

Session TUA5: Trains and Boats and Planes

Invited Session **time:** 8:30-10:45 **room:** Aula 5.4 **chair:** C. Paraskevopoulos

1. Aircraft Departure Scheduling with Blocking in the Holding Area
Chris N. Potts Mohammad Mesgarpour Julia A. Bennell
2. A Variable Neighborhood Search Heuristic With Speed Optimisation For Tramp Ship Scheduling
Fotini Malliappi Julia A. Bennell Chris N. Potts
3. Modified Shifting Bottleneck Algorithms for Train Scheduling and Rescheduling in the UK
Banafsheh Khosravi Julia A. Bennell Chris N. Potts
4. Increasing nodal capacity by redesigning the train timetable: A case study on the UK's rail network
Dimitris Paraskevopoulos Tolga Bektas Chris N. Potts John Armstrong John Preston
5. Risk Constrained Cash In Transit Vehicle Routing Problem
Luca Talarico Kenneth Sørensen Johan Springael

Session TUB1: VRPs with Extra Constraints 2

Invited Session **time:** 11:15-13:00 **room:** Aula 6.1 **chair:** J.J. Salazar

1. A vehicle routing model with stop nodes
Leonardo Berbotto Sergio García Francisco J. Nogales
2. Circuit based formulations for the Unit Demand Vehicle Routing Problem
Luís Gouveia Maria Teresa Godinho Pierre Pesneau
3. New Exact and Heuristic Algorithms for the Multiple-Vehicle Production Routing Problem
Jean-François Cordeau Yossiri Adulyasak Raf Jans
4. A Multi-Round Approach for solving the Heterogeneous Vehicle Routing Problem
Javier Faulin Ángel A. Juan Alba Agustin Miguel A. Lorente

Session TUB2: VRPs with Multiple Synchronization Constraints 2

Invited Session **time:** 11:15-13:00 **room:** Aula 6.2 **chair:** M. Drexl

1. An Overview of Vehicle Routing Problems with Multiple Synchronization Constraints
Michael Drexl
2. Hybridization strategies for routing problems with pairwise synchronization constraints
Sophie N. Parragh Karl F. Doerner
3. Experience with a simple heuristic framework for solving rich vehicle routing problems
Ulrich Derigs Ulrich Vogel
4. A tabu search for the time-dependent multi-zone multi-trip vehicle routing problem with time windows
Phuong Khanh Nguyen Teodor Gabriel Crainic Michel Toulouse

Session TUB3: Vessel Routing and Harbour Operations

Invited Session

time: 11:15-13:00

room: Aula 5.6

chair: P. Zuddas

1. Optimizing Dry-Port-based Freight Distribution through Service Network Design Models
Antonino Sgalambro Teodor Gabriel Crainic Paolo Dell'Olmo Nicoletta Ricciardi
2. A Decision Support System for Intermodal Barge Transportation Operations
Ioana C. Bilegan Teodor Gabriel Crainic
3. A heuristic algorithm for the routing of trucks with multiple container loads
Michela Lai Teodor Gabriel Crainic Massimo Di Francesco Paola Zuddas
4. Optimizing routes for a research vessel
Marta Mesquita Alberto Murta Ana Paias Laura Wise

Session TUB4: VRPs with Visit Policies

Invited Session

time: 11:15-13:00

room: Aula 5.7

chair: M. Battarra

1. TSP with PickUp and Delivery with Handling Costs
Maria Battarra Gunes Erdogan Daniele Vigo
2. An Adaptive Large Neighborhood Search Algorithm for the Pollution-Routing Problem
Emrah Demir Tolga Bektas Gilbert Laporte
3. Path Relinking optimization method for Vehicle Routing and Scheduling Problems with Product Returns
Panagiotis P. Repoussis Afroditi K. Anagnostopoulou Christos D. Tarantilis
4. The Orienteering Problem with Variable Profits
Gunes Erdogan

Session TUB5: Inventory Routing Problems

Contributed Session

time: 11:15-13:00

room: Aula 5.4

chair: D. Feillet

1. Solving the consistent multi-vehicle inventory-routing problem
Leandro C. Coelho Jean-François Cordeau Gilbert Laporte
2. Inventory routing for a single perishable item
Mahmood Rezaei Tom Van Woensel
3. Selective and Periodic Inventory Routing Problem
Ozge Tuncel Sibel Salman Onur Kaya Deniz Aksen
4. A stochastic inventory routing problem for infectious medical waste collection
Dominique Feillet Pamela C. Nolz Nabil Absi

Session TUC1: Plenary Lecture

time: 14:30-15:30

room: Aula 6.1

chair: Daniele Vigo

Thirty years or vehicle routing research: part I

Gilbert Laporte

Thirty years or vehicle routing research: part II

Matteo Fischetti

Session TUD1: Tutorial

time: 15:30-19:00

room: Aula 6.1

GIS and digital maps for routing in commercial decision support systems

Tore Gruenert

Session MOE: Social Dinner

time: 20:00-22:00

room: Ristorante Cantina Bentivoglio. Via Mascarella, 4/B Bologna

Wednesday, June 20th, 2012

Session WEA1: VRPs with Extra Constraints 3

Invited Session

time: 9:00-10:45

room: Aula 6.1

chair: J.J. Salazar

1. Exact algorithms for the Traveling Purchaser Problem with Multiple Stacks
Jorge Riera-Ledesma Juan José Salazar-González María D. Batista-Galván
2. Models for a capacitated Steiner m-routing problem with profits
Ana Bautzer Luís Gouveia Ana Paias José Manuel Pires
3. Large Neighborhood Search for Multi Depot Multi Period Vehicle Routing Problem with Time Windows
Belma Turan Richard Hartl Verena Schmid Karl F. Doerner
4. Double TSP with Multiple Stacks - Strategic Oscillation and Heuristic Search
Arne Lokketangen Anolan Milanés Sebastián Urrutia

Session WEA2: VRPs with Multiple Synchronization Constraints 3

Invited Session

time: 9:00-10:45

room: Aula 6.2

chair: M. Drexler

1. Comparing Recourse Strategies in Addressing Demand Uncertainty in Two-Tiered City Logistics Planning
Teodor Gabriel Crainic Fausto Errico Walter Rei Nicoletta Ricciardi
2. A mixed-integer linear model for integrated network design and routing
Julia Rieck
3. Exact approaches for an inventory-routing problem with multiple vehicles
Nicola Bianchessi Claudia Archetti Stefan Irnich Maria Grazia Speranza
4. A Mixed Integer Program for a variant of the Truck and Trailer Routing Problem with Time Windows
Julia Funke Tuomo Takkula

Session WEA3: Rich VRPs 2

Contributed Session

time: 9:00-10:45

room: Aula 5.6

chair: G. Hasle

1. Hybridization of Column Generation and Ant Colony Optimization to solve a real-world vehicle routing problem
Lorenzo Ruinelli Matteo Salani Roberto Montemanni Luca Maria Gambardella
2. Solving Rich Vehicle Routing Problems in Professional Applications, Theory meets Real Life
Werner Heid
3. Scheduling Drivers' Breaks and Rests under Additional Time Constraints in Theory and Practice
Sebastian Knopp Alexander Kleff
4. The Gap Between Theory and Practice
Geir Hasle Olli Bräysy

Session WEA4: Dynamic and Stochastic VRPs

Contributed Session

time: 9:00-10:45

room: Aula 5.7

chair: N. Wollenberg

1. Partially Dynamic Vehicle Routing applied to Mobile Field Services using Web GIS and real time vehicle communication
Auro Castiglia Raduan Nicolau Dionisio Fares Gualda Claudio Barbieri da Cunha
2. A vehicle routing problem with dynamic multiple depots for the case of a temporary employment agency in the construction industry
Jana Ries
3. New measures for describing the structure of dynamic vehicle routing problems
Stefan Vonolfen Michael Affenzeller
4. Resource Efficient Stochastic Vehicle Routing in Forwarding Agencies
Nadine Wollenberg Rüdiger Schultz Uwe Clausen Sascha Wohlgemuth

Session WEA5: Arc Routing Problems

Contributed Session

time: 9:00-10:45

room: Aula 5.4

chair: A. Corberan

1. The Cumulative Chinese Postman Problem
Nikolaj van Omme Ángel Corberán José María Sanchís Michel Gendreau Patrick Soriano
2. Districting for Arc Routing Services
José Luis González-Velarde Elena Fernández Gabriela García-Ayala Roger Z. Ríos-Mercado
3. Finding feasible solutions for arc routing - a case study
Maria Candida Mouráo Leonor Santiago Pinto
4. On the Stacker Crane Problem
Ángel Corberán Thais Ávila Isaac Plana José María Sanchís

Session WEB1: Plenary Lecture

time: 11:15-12:15

room: Aula 6.1

chair: A. Corberan

An Overview of Stochastic Vehicle Routing

Michel Gendreau

Session WEC1: Green VRPs

Contributed Session

time: 13:45-15:30

room: Aula 6.1

chair: G. Righini

1. GreenNav—Energy-Optimal Routing for Electric Vehicle
Martin Leucker René Schönfelder Martin Sachenbacher
2. Minimizing CO_2 Emissions versus Distance in a Recyclable Waste Collection System with Multiple Products and Depots
Tania Rodrigues Pereira Ramos Maria Isabel Gomes Ana Paula Barbosa-Póvoa
3. Incremental Updating of the Transit Algorithm
Leonid Antsfeld Toby Walsh
4. An exact algorithm for the green vehicle routing problem
Giovanni Righini Ángel Felipe Ortega Gregorio Tirado Domínguez M. Teresa Ortuño Sánchez

Session WEC2: VRPs with Time Windows

Contributed Session

time: 13:45-15:30

room: Aula 6.2

chair: J. Brandao

1. Metaheuristics for the VRPTW with Multiple Service Workers
Gerald Senarclens de Grancy Marc Reimann
2. Handling feasibility in genetic algorithms for VRP with time windows
Gintaras Vaira Olga Kurasova
3. Comparison of Initialization Methods for Vehicle Routing Problems with Time Windows
Christian Doppstadt
4. Metaheuristics for the vehicle routing problem with backhauls and soft time windows
José Brandáo

Session WEC3: Time Dependent VRPs

Contributed Session

time: 13:45-15:30

room: Aula 5.6

chair: T. Vidal

1. Deterministic annealing algorithm for a time-dependent routing problem in drayage operations
Kris Braekers An Caris Gerrit K. Janssens
2. A New Lower Bound for the Time-Dependent Fastest Path Problem
Emanuela Guerriero Gianpaolo Ghiani
3. Ranking paths in stochastic time-dependent networks
Lars Relund Nielsen Daniele Pretolani Kim Allan Andersen
4. Timing Problems and Vehicle Routing
Thibaut Vidal Teodor Gabriel Crainic Michel Gendreau Christian Prins

Session WEC4: Traveling Salesman Problems

Contributed Session

time: 13:45-15:30

room: Aula 5.4

chair: V. Deineko

1. Comparison of Heuristics for the Colorful Traveling Salesman Problem
Andrea Raiconi John Silberholz Raffaele Cerulli Monica Gentili Bruce Golden Si Chen
2. A bilevel optimization approach to the ring star problem
Herminia I. Calvete Carmen Gal José A. Iranzo
3. Local search for the 2-period balanced Travelling Salesman Problem
Vladimir Deineko

Session WED1: Closing Session

time: 15:30-16:00

room: Aula 6.1

chair: Daniele Vigo