

PROGRAM

Wednesday January 30th

16:00-16:30 Registration

16:30-16:45 Opening Session

16:45-18:25 Session 1: Discrete Location

Exact algorithm for the Reliability Fixed-Charge Location Problem with Capacity constraints

M. Albareda-Sambola, M. Landete, J.F. Monge, and J.L. Sainz-Pardo

An extension of the p-center problem considering stratified demand

M. Albareda-Sambola, L.I. Martínez-Merino, and A.M. Rodríguez-Chía

Capacitated Discrete Ordered Median Problems

I. Espejo, J. Puerto, and A. M. Rodríguez-Chía

Rationalizing capacities in the facility location problem

Á. Corberán, M. Landete, J. Peiró, and F. Saldanha-da-Gama

An exact algorithm for the Interval Transportation Problem

M. Albareda-Sambola, M.Landete, and G. Laporte

18:25-18:45 Coffee break

18:45-20:05 Session 2: Networks

Optimal allocation of fleet frequency for “skip-stop” strategies in transport networks.

J. A. Mesa, F. A. Ortega, R. Piedra-de-la-Cuadra, and M. A. Pozo

Dealing with Symmetry in a Multi-period Sales Districting Problem

M. Bender, J. Kalcsics, A. Meyer, and M. Pouls

Minmax Regret Maximal Covering on Networks with Edge Demands

M. Baldomero-Naranjo, J. Kalcsics, and A. Rodríguez-Chía

Non-dominated solutions for the bi-objective MST problem

L. Amorosi and J. Puerto

21:30 Welcome Reception

Thursday January 31st

9:00-10:40 Session 3: Continuous Location

A Mixed Integer Linear Formulation for the Maximum Covering Location Problem with Ellipses

V. Blanco and S. García

Minimum covering polyellipses

V. Blanco and J. Puerto

The One-Round Voronoi Game Played on the Rectilinear Plane

T. Byrne, S. P. Fekete, and J. Kalcsics

Locating Hyperplanes for Multiclass Classification

V. Blanco, A. Japón, and J. Puerto

Introduction to planar location with orloca

M. Muñoz-Márquez

10:40-11:10 Coffee break

11:10-12:30 Invited Speaker: Francisco Saldanha da Gama

Logistics Network Design and Facility Location: The value of multi-period stochastic solutions

12:30-14:10 Session 4: Routing

The selective traveling salesman problem with time-dependent profits

E. Barrena, D. Canca, L.C. Coelho, and G. Laporte

Solidarity behavior for optimizing the waste selective collection

E. Barrena, D. Canca, F. A. Ortega, and R. Piedra-de-la-Cuadra

Steiner Traveling Salesman Problems: when not all vertices have demand

J. Rodríguez-Pereira, E. Benavent, E. Fernández, G. Laporte, and A. Martínez-Sykora

A Kernel Search for the Inventory Routing Problem

C. Archetti, G. Guastaroba, D.L. Huerta-Muñoz, and M.G. Speranza

A branch-and-price algorithm for the Vehicle Routing Problem with Stochastic Demands, Probabilistic Duration Constraint, and Optimal Restocking Policy

A. M. Florio, R. F. Hartl, S. Minner, and J.J. Salazar-González

14:10-15:30 Lunch

15:30-16:30 Session 5: Networks Design

Robust feasible rail timetable

Á. Marín, M. A. Ruiz-Sánchez, and E. Codina

Addressing locational complexity: network design and network rationalisation

D. Ruiz-Hernandez, J. M. Pinar-Pérez, and M. B.C. Menezes

Locating a new station/stop in a network based on trip coverage and times

M. C. López-de-los-Mozos and J. A. Mesa

16:40-17:40 Session 6: Networks Design II

The Urban Transit Network Design Problem

A. De-los-Santos, D. Canca, A. G. Hernández-Díaz, and E. Barrena

Infrastructure Rapid Transit Network Design Model solved by Benders Decomposition

N. González-Blanco and J. A. Mesa

The Railway Rapid Transit Network Construction Scheduling Problem

D. Canca, A. de los Santos, G. Laporte, and J. A. Mesa

17:40-18:00 Coffee break

18:00-19:00 Session 7: Applications

Wildfire Location Model: A new proposal

J. A. Mesa and M. Marcos-Pérez

Time dependent continuous optimisation in solar power tower plants

T.Ashley, E. Carrizosa, and E. Fernández-Cara

On computational Dynamic Programming for minimizing energy in an electric vehicle

E. M.T. Hendrix and I. Garcia

19:10-20:10 Session 8: Discrete Location II

Heuristic Framework to Reduce Aggregation Error on Large Classical Location Models

C. Castañeda and D. Serra

Emergency Vehicle Location Model considering uncertainty and the hierarchical structure of the resources

J. Nelas and J. Dias

Using a kernel search heuristic to solve a sequential competitive location problem in a discrete space

D. R. Santos-Peñate, C. M. Campos-Rodríguez, and J. A. Moreno-Pérez

21:30 Dinner

Friday February 1st

9:00-10:40 Session 9: Applications/ Routing/ Hub Location

Minimum distance regulation and entry deterrence through location decisions

J. Elizalde Blasco and I. Rodríguez Carreño

The impact of pharmacy deregulation process on market competition and users' accessibility. Insights from two Spanish case studies.

I. Barbarisi, G. Bruno, M. Cavola, A. Diglio, J. Elizalde Blasco, and C. Piccolo

Solving the Ordered Median Tree of Hubs Location Problem

M. A. Pozo, J. Puerto, and A. M. Rodríguez-Chía

Feasible solutions for the Distance Constrained Close-Enough Arc Routing Problem

M. Reula, Á. Corberán, I. Plana, and J. M. Sanchis

Drone Arc Routing Problems

J. F. Campbell, Á. Corberán, I. Plana, and J. M. Sanchis

10:40-11:10 Coffee Break

11:10-12:30 Invited Speaker: Ivana Ljubic

Solving Very Large Scale Covering Location Problems using Branch-and-Benders-Cuts

12:30-13:50 Session 10: Bilevel Location

On location-allocation problems for dimensional facilities

L. Mallozzi, J. Puerto, and M. Rodríguez-Madrena

New bilevel programming approaches to the location of controversial facilities

M. Labbé, M. Leal, and J. Puerto

A multi-period bilevel approach for stochastic equilibrium in network expansion planning under uncertainty

L. F. Escudero, J. F. Monge, and A. M. Rodríguez-Chía

Bilevel programming models for multi-product location problems

S. Dávila, M. Labbé, F. Ordoñez, F. Semet, and V. Marianov

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13:50-14:30 Location Network Meeting

14:30-15:30 Lunch