

PROGRAM



# Thursday January 23rd

## 08:45-09:15 Registration

## 09:15-09:30 Opening Session

## 09:30-11:30 Session 1: Facility Location I

Extensive facility location problems with hyperplanes

*V. Blanco, A. Japón, D. Ponce, and J. Puerto*

Hub Location Problems with Ball-Shaped Neighborhoods of varying radius

*V. Blanco and J. Puerto*

Upgrading Location Problems with Edge Length Variations on Networks

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

Solving Discrete Ordered Median Problems with Induced Order

*E. Domínguez and A. Marín*

Upgraded network  $p$ -median problem

*I. Espejo and A. Marín*

## 11:30-12:00 Coffee break

## 12:00-12:50 Invited Speaker: Stefano Benati

Clustering with Variables Selection: Challenges from the Eurobarometer Data

## 13:00-14:00 Session 2: Applications I

Multi-channel distribution in the banking sector and network restructuring

*S. Baldassarre, G. Bruno C. Piccolo, and D. Ruiz-Hernández*

A Facility Location Problem with transshipment points

*A. Moya-Martínez, M. Landete, and J.F. Monge*

A Location-Allocation Model for Bio-Waste Management

*D.R. Santos-Peñate, R.R. Suárez-Vega, and C. Florido de la Nuez*

**14:00-15:30 Lunch****15:30-16:30 Session 3: Districting**

Shape and Balance in Districting

*V. Bucarey and F. Ordoñez*

Optimal Site Dimensioning in Design of UAV-based 5G Networks with Optical Rings, Solar Panels and Batteries.

*L. Amorosi*

Towards a stochastic programming modeling framework for districting

*A. Diglio, S. Nickel, and F. Saldanha da Gama*

**16:30-17:00 Coffee break****17:00-18:40 Session 4: Logistics**

The facility location problem with capacity transfers

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

A two-echelon distribution network under customer selection

*H.I. Calvete, C. Galé, and J.A. Iranzo*

Promoting the selective collection of urban solid waste by means an optimal deployment of routes for mobile eco-points

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

Dynamic shipping in hierarchical freight transportation network

*I. Contreras, G. Laporte, and D. Ponce*

**19:30 Social event**

## Friday January 24th

### 09:30-11:30 Session 5: Facility Location II

Minimum distance regulation and entry deterrence through location decisions

*J. Elizalde and I. Rodríguez-Carreño*

Facility Location Problems on Multilayer Networks

*M. Calvo and J.A. Mesa*

Infrastructure Network Design Models: some previous facts before Benders Decomposition

*V. Bucarey, B. Fortz, M. Labbé, N. González-Blanco, and J.A. Mesa*

An application of the  $p$ -median problem in optimal portfolio selection

*J. Puerto, M. Rodríguez-Madrena, and A. Scozzari*

$p$ -Maximum expected covering on an unreliable network

*M. Albareda-Sambola and O. Lordan*

### 11:30-12:00 Coffee break

### 12:00-12:50 Invited Speaker: Ángel Corberán

Arc Routing Problems with drones

### 13:00-14:00 Session 6: Routing I

Distance-Constrained Close Enough Arc Routing Problem: Polyhedral study and B&C algorithm

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

A heuristic approach for the multi-drop Truck-Drone cooperative routing problem

*P.L. González-R, D. Canca, J.L. Andrade-Pineda, M. Calle, and J.M. León*

Orienteering with synchronization in a telescope scheduling problem

*J. Riera-Ledesma, J.J. Salazar-González, and F. Garzón*

**14:00-15:30 Lunch****15:30-16:30 Session 7: Routing II**

A matheuristic to solve the MDVRP with Vehicle Interchanges  
*V. Rebillas-Loredo, M. Albareda-Sambola, J.A. Díaz, and D.E. Luna-Reyes*

Prize-collecting Location Routing on Trees  
*J. Aráoz, E. Fernández, and M. Muñoz-Marquez*

Network Design under Uncertain Demand: an Alternative Capacitated Location Decision Framework  
*D. Ruiz-Hernández, M.M.B.C Menezes, and O. Allal-Cherif*

**16:30-17:00 Coffee break****17:00-18:40 Session 4: Applications II**

An approach to obtain the Domatic Number of a graph by block decomposition  
*M. Landete and J.L. Sainz-Pardo*

XPP with Neighborhoods  
*C. Valverde and J. Puerto*

Optimisation Models Applied to Image Reconstruction  
*J.J. Calvino, M. López-Haro, J. M. Muñoz-Ocaña, and A.M. Rodríguez-Chía*

On some classes of combinatorial optimization problems with non-convex neighborhoods  
*I. Espejo, J. Puerto, and A.M. Rodríguez-Chía*

**18:40-19:10 Location Network Meeting****21:00 Conference dinner**