Program

Wednesday, September 17, 2025

8:30–9:00	**Registration (H)**	
9:00–10:00	**Opening session (S)**	
10:00–11:00	**EWGLA Plenary talk (b)** Location and Transportation Problems in Humanitarian Logistics: Models, Insights, and Future Directions **Burcu Balçik** Ozyegin University, Turkey (Chair: Serena Fugaro)	
11:00–11:30	**Coffee (T)**	
11:30–12:50	**W1a: Discrete Location**	**W1b: Applications**
13:00–14:30	**Lunch (C)**	
14:30–15:50	**W2a: Capacitated Facility Location**	**W2b: Continuous Location**
16:00–16:30	**Coffee (T)**	
16:30–17:50	**W3a: Discrete Location**	**W3b: Network Design**
20:00–22:00	**Welcome reception (*)**	

Details of the Presentation Rooms

(a) Classroom Building (Aulario), 1st Floor, Room 1.20A
(b) Classroom Building (Aulario), 1st Floor, Room 1.20B
(S) Auditorium (Salón de Actos)
(H) Hall Office and Seminar Building (Edificio de Despachos y Seminarios)
(T) Cafeteria Terrace
(C) Cafeteria Dining Area
(*) Damajuana

Parallel Sessions Overview

11:30–12:50 W1a: Discrete Location (Chair: Alfredo Marín)

- Tackling the discrete α-neighbor p-center problem with integer programming.
  Elisabeth Gaar, *Markus Sinnl*.
- On the p-α-center problem.
  Elisabeth Gaar, *Sara Joosten*, *Markus Sinnl*.
- On integer programming models for the obnoxious p-median problem.
  Elisabeth Gaar, *Markus Sinnl*.
- An alternative Integer Programming formulation for the Linear Ordering Problem.
  Alfredo Marín, *Justo Puerto*.

11:30–12:30 W1b: Applications (Chair: Manuel Munoz-Marquez)

- Towards more sustainable Postal Supply Chains: a probabilistic approach to design Last-Mile Delivery Areas.
  Giuseppe Bruno, *Antonio Diglio*, *Carmela Piccolo*, *Eduardo Pipicelli*.
- Redesigning Italian health districts within new primary care regulatory frameworks.
  Giuseppe Bruno, *Antonio Diglio*, *Andreana Ferraioli*, *Carmela Piccolo*.
- The Strategic Berth Template Problem with Uncertain Arrival Times.
  Elena Fernández, *Manuel Munoz-Marquez*, *Francisco Saldanha-da-Gama*.

14:30–15:50 W2a: Capacitated Facility Location (Chair: Juan-José Salazar-González)

- Enforcing Stability in Capacitated Facility Location Problems with Ordinal Customer Preferences.
  Adam Dunajski, *Sergio García*, *Akshay Gupte*.
- Stable formulations for the Capacitated Facility Location Problem with Customer Preferences.
  Concepción Domínguez, *Juan de Dios Jaime Alcántara*.
- A capacitated facility location pricing problem with order.
  Herminia I. Calvete, *Carmen Galé*, *Aitor Hernández*, *José A. Iranzo*.
- Solution approaches for a fair multi-source capacitated facility location problem.
  Carlo Filippi, *Gianfranco Guastaroba*, *Juan-José Salazar-González*.

14:30–15:50 W2b: Continuous Location (Chair: Justo Puerto)

- Multiple Support Vector Machines based classifiers for multiclass classification.
  Víctor Blanco, *Harshit Kothari*, *Jim Luedtke*.
- A mathematical optimization approach for Multisphere Support Vector Data Description.
  Víctor Blanco, *Inmaculada Espejo*, *Raúl Páez*, *Antonio M. Rodríguez-Chía*.
- Conditional Facility Location Problems with Continuous Demand and a Rapid Transit Line.
  Thomas Byrne.
- On geodesic problems in location analysis: location with distance dependent regions.
  Justo Puerto.

16:30–17:50 W3a: Discrete Location (Chair: Eduardo Moreno)

- The Bounded Fixed-Charge Problem: A Compact and Tight Extended Formulation.
  Kobe Grobben, Hande Yaman , Phablo Moura.
- Location of services in urban areas using presence data and GIS information.
  Francesco Bianchi, Giovanni Felici, Giuseppe Stecca.
- Pattern-based Kernel Search for the Single-source Capacitated Facility Location Problem.
  Hannah Bakker, Gianfranco Guastaroba, Stefan Nickel, M. Grazia Speranza.
- Stochastic facility location problem with outsourcing costs.
  Eduardo Moreno, Javiera Barrera, Ivana Ljubić.

16:30–17:50 W3b: Network Design (Chair: Elena Fernández)

- Minmax location models for power system restoration problems.
  Hatice Çalık, Dirk Van Hertem, Hande Yaman.
- Dynamic Programming and Block-Cut Tree Decompositions for the Maximum Covering Network Design Problem.
  Felix Rauh, Jannik Matuschke, Hande Yaman.
- Extending the λ-Cent-Dian concept in Network Design Problems.
  Víctor Bucarey, Natividad González-Blanco, Martine Labbé, Juan A. Mesa.
- The Multiple-Picker Order Assignment Routing Problem.
  Elena Fernández, Manuel Muñoz-Marquez, Jessica Rodríguez-Pereira.

Thursday, September 18, 2025

9:00–10:00	**T1a: Location Routing**	**T1b: Humanitarian Logistics**
10:00–11:00	**EWGLA Plenary talk (b)** An EU-Wide Electricity Generation Capacity Expansion Problem subject to Network Constraints **Anthony Papavasiliou** National Technical University of Athens, Greece (Chair: Hatice Çalik)	
11:00–11:30	**Photo and coffee (T)**	
11:30–12:50	**T2a: Bilevel**	**T2b: Hub Location**
13:00–14:30	**Lunch (C)**	
14:30–15:50	**T3a: Covering Location**	**T3b: Capacitated Facility Location**
15:50–16:40	**Spanish Network Location Session (I)**	
18:00–21:00	**Social activities (*)**	

Details of the Presentation Rooms

(a) Classroom Building (Aulario), 1st Floor, Room 1.20A
(b) Classroom Building (Aulario), 1st Floor, Room 1.20B
(I) INDESS Auditorium (Salón de Actos)
(T) Cafeteria Terrace
(C) Cafeteria Dining Area
(*) City center

Parallel Sessions Overview

9:00–10:00 T1a: Location Routing (Chair: Maria Albareda-Sambola)

- Designing resilient networks: A robust approach to the location-routing problem. *Bruna Figueiredo*, *Amaro de Sousa*, *Rui Borges Lopes*.
- A Location-Routing Problem with Customers' Delivery Preferences. *José Emmanuel Gómez-Rocha*, *José-Fernando Camacho-Vallejo*, *Elena Fernández*.
- Resource balancing through route combination. *Maria Albareda-Sambola*, *Juan A. Díaz*, *Dolores E. Luna-Reyes*, *Victoria Rebillas-Loredo*.

9:00–10:00 T1b: Humanitarian Logistics (Chair: Jessica Rodríguez-Pereira)

- Team Formation and Debris Assignment for Post-Disaster Search and Rescue Operations: An Operational Research Perspective. *Egehan Uğraş*, *Zehranaz Dönmez Varol*, *Bahar Y. Kara*.
- Bi-objective Location of Temporary Logistics Hubs for Enhancing Post-Disaster Relief Operations. *Serena Fugaro*, *Antonino Sgalambro*.
- Logistics planning for post-disaster resilience assessment under uncertainty. *Asena Kaplan*, *Jessica Rodríguez-Pereira*, *Burcu Balçik*, *Marie-Ève Rancourt*, *Gilbert Laporte*.

11:30–12:50 T2a: Bilevel (Chair: Simona Mancini)

- Order then optimize: a flexible modeling framework in Location Science.
  Victor Blanco, Miguel A. Pozo, Justo Puerto, Alberto Torrejon.
- New generalized Stackelberg solutions in Security Games.
  Lina Mallozzi, Justo Puerto, Francisco Temprano.
- A Deterministic Utility Model for the Leader-Follower Competitive Facility Location Problem with Facility Attractiveness.
  Julius Hoffmann, Stefan Nickel.
- Competitive bi-level facility location with levels of service and stochastic customers preferences.
  Simona Mancini, Leandro C. Coelho.

11:30–12:50 T2b: Hub Location (Chair: Armin Lüer-Villagra)

- Locating Sorting Modules in a Multi-Hub E-Commerce Logistics Network.
  Zeynep Ezgi Kurban, Bahar Yetiș Kara, Oya Karaşan.
- Study of parameter perturbations in the uncapacitated p-hub median location problem with Machine Learning.
  Inigo Martin Melero, Mercedes Landete Ruiz, Vanesa Guerrero.
- Tight lower bounds for Multiple Allocation HLPs from two-index supermodular inequalities.
  Elena Fernández, Nicolás Zerega.
- A stochastic hub location and protection problem.
  Armin Lüer-Villagra, Gonzalo Méndez-Vogel, Vladimir Marianov.

14:30–15:50 T3a: Covering Location (Chair: Ioannis Giannikos)

- Enhancing Fairness in Emergency Medical Service: Single- and Bi-Objective Model Formulations.
  Isabel Wiemer, Jutta Geldermann.
- Maximal Covering Location Problem with Random Utilities for Urban Recycling: Modeling User Behavior and Bin Overflow Constraints.
  Gonzalo Méndez-Vogel, Sebastián Dávila-Gálvez, Pedro Jara-Moroni, Jorge Zamorano.
- Preliminary results on the generalized vertex cover problem.
  Juan Francisco Correcher, Mercedes Landete, Juanjo Peiró, Hande Yaman.
- Probabilistic Cooperative Coverage Location Problems: a Robust Optimization Approach.
  Ioannis Giannikos, Maria Mihopoulou.

14:30–15:50 T3b: Capacitated Facility Location (Chair: Pascual Fernández)

- A combinatorial branch-and-bound algorithm for the single-source capacitated facility location problem with strict customer preferences.
  Christina Büsing, Felix Engelhardt, Sophia Wrede.
- Combined risk attitudes in optimization models.
  Juan M. Muñoz-Ocaña, Antonio M. Rodríguez- Chía, Francisco Saldanha-da-Gama.
- Optimal location of synchronization servers and robust radio base concentrator assignation in telecommunications networks.
  Pedro Piñeyro, Antonio Mauttone, Federico Molina, Enrique Munné, Alejandro Pascual, Carlos Testuri.
- A Capacitated Discrete Competitive Facility Location and Design Model with Two Customers Choice Rules Sequentially Applied.
  Pascual Fernández, Algirdas Lančinskas, Julius Žilinskas.

Friday, September 19, 2025

9:00–10:00	**F1a: Location Routing**	**T1b: Network Design**
10:00–11:00	**IWOLOCA Plenary talk (b)** Celebrating Thirty EWGLA Meetings: A personal retrospective on Location Analysis **Vladimir Marianov** Pontificia Universidad Católica de Chile, Chile (Chair: Víctor Blanco)	
11:00–11:30	**Coffee (T)**	
11:30–12:50	**F2a: Covering Location**	**F2b: Graph Theory**
13:00–14:30	**Lunch (C)**	
14:30–15:30	**F3a: Bilevel**	**F3b: Applications**
15:30–16:00	**Coffee (T)**	
16:00–17:00	**F4a: Competitive Location**	**F4b: Humanitarian Logistics**
17:00–17:50	**EWGLA Session (S)**	
20:30–22:30	**Gala dinner (*)**	

Details of the Presentation Rooms

(a) Classroom Building (Aulario), 1st Floor, Room 1.20A
(b) Classroom Building (Aulario), 1st Floor, Room 1.20B
(S) Auditorium (Salón de Actos)
(T) Cafeteria Terrace
(C) Cafeteria Dining Area
(*) González Byass

Parallel Sessions Overview

9:00–10:00 F1a: Location Routing (Chair: Lavinia Amorosi)

- A Two-Echelon Location-Routing Approach for Orange Peel Recycling.
  Juan-Carlos García-Vélez, Abiel Galindo, José-Fernando Camacho-Vallejo.
- A Time Space Network Model for a Truck and Drones Delivery System with Battery Recharging and Variable Speeds.
  Lavinia Amorosi, Paolo Dell'Olmo, Justo Puerto, Carlos Valverde.
- Preemptive Drone Coverage Path Planning with Variable Altitudes.
  Lavinia Amorosi, Paolo Dell'Olmo, Justo Puerto, Carlos Valverde.

9:00–10:00 F1b: Network Design (Chair: Antonio M. Rodríguez-Chía)

- Deep-learning Aided Crowdshipping Network Design with External Delivery Vehicles.
  Ramazan Çevik, Ali Şardağ, Barış Yıldız.
- Scheduled Service Network Design for Integrated Passenger and Freight Transportation.
  Krissada Tundulyasaree, Emrah Demir, Rolf N. van Lieshout, Layla Martin, Tom Van Woensel.
- Cargo allocation problem on road transport subject to driving-time regulations.
  Inmaculada Espejo, Juan Manuel Muñoz-Ocaña, Teresa Navarro, Raúl Páez, Antonio M. Rodríguez-Chía.

11:30–12:50 F2a: Covering Location (Chair: Claudio Sterle)

- The Maximum Capture Facility Location with Random OWA Utilities.
  Concepción Domínguez, Ricardo Gázquez, Juan Miguel Morales, Salvador Pineda.
- Upgrading on edges and facilities for the Multi-Type Maximal Covering Location Problem.
  Marta Baldomero-Naranjo, Ricardo Gázquez, Antonio M. Rodríguez-Chía.
- Integrating E-Scooters into Urban Mobility: Coupled Location Problems for Seamless Multimodal Transport.
  Nicolas Fröhlich, Klara Hoffmann, Anita Schöbel.
- The Clustered Multimode Set Covering Problem.
  Andrea Mancuso, Antonio Manuel Rodríguez-Chía, Francisco Saldanha-da-Gama, Claudio Sterle.

11:30–12:50 F2b: Graph Theory (Chair: Mercedes Landete)

- New mixed-integer linear models for the 2-Layer Straight Line Crossing Minimization Problem.
  Inmaculada Espejo, Mercedes Landete, Juanjo Peiró.
- Uniform partitioning problems and k-dimensional assignment.
  Isabella Lari, Federica Ricca, Andrea Scozzari.
- Optimal Mediated Graphs and Where to Find Them: Hidden Combinatorics Underneath Conic Algebraic Geometry.
  Víctor Blanco, Miguel Martínez-Antón.
- Linear constraints for describing spanning trees representing complete linkage dendrograms.
  Martine Labbé, Mercedes Landete, Marina Leal, Lorena Nácher.

14:30–15:30 F3a: Bilevel (Chair: José-Fernando Camacho-Vallejo)

- A bilevel model for locating garment recycling bins.
  Dámaris Arizhay Dávila Soria, *Mario Alberto Aguirre-López*, *Jose-Fernando Camacho-Vallejo*.
- Optimizing the Location of Waste Transfer Stations and Treatment Facilities for Sustainable Urban Solid Waste Management.
  Krystel M. Rodríguez, *José-Fernando Camacho-Vallejo*, *Rosa G. González-Ramírez*, *Juan G. Villegas*.
- A Bilevel Approach to the Location-Routing Problem for PET Bottle Collection.
  José-Fernando Camacho-Vallejo, *Eva Selene Hernández-Gress*, *Carlos Corpus* , *Ali Zahedi*.

14:30–15:30 F3b: Applications (Chair: Anita Schöbel)

- A Multi-Objective Mixed Integer Linear Programming Model for In-Motion Charging Location Planning.
  Mohammad Javad Eslami, *Thomas Byrne*, *Mahdi Doostmohammadi*.
- New Mathematical Models of Clustered Vehicle Routing Problem for the Waste Collection Process.
  Yaren Çelik, *Kumru Didem Atalay*, *Berna Dengiz*, *Tusan Derya*, *Bahar Yetiş Kara*.
- The Skip-Stop Problem in Public Transportation.
  Ricardo Reicherz, *Anita Schöbel*.

15:30–16:30 F4a: Competitive Location (Chair: Pedro Godinho)

- A Stackelberg location game on the plane with equilibrium delivered prices.
  José Fernández, *Boglárka G. Tóth*.
- Collection points placement in urban delivery: A game-theoretic analysis of public and competitive strategies.
  Fabio Mercurio, *Margarida Carvalho*, *Sonja U.K. Rohmer*, *Loe Schlicher*, *Tom Van Woensel*.
- Competitive Location with NPV Maximization in a Discrete Setting: Comparing Sequential and Simultaneous Decisions.
  Pedro Godinho.

15:30–16:30 F4b: Humanitarian Logistics (Chair: Damla Benli)

- Managing Involuntary Migration.
  Melek Tuncel, *Bahar Y. Kara*.
- Fairness-Constrained Robust Optimization for Refugee Settlement Planning.
  Patience N. Saungweme, *Stefan Spinler*.
- Locating Loading and Distribution Points for Social Aid Deliveries: A Learning-Based Decomposition Approach.
  Damla Benli, *Vedat Bayram*, *Barış Yıldız*.