



Schedule NEO 2016

September 20

08:45 - 09:15	Opening	
09:15 - 10:00	Management of Diversity in Evolutionary Algorithms and its Application to the Frequency Assignment Problem	Carlos Segura
10:00 - 10:30	A Local Search Heuristic for the Multidimensional Assignment Problem	Sergio Pérez
10:30 - 11:00	A Hybrid GSGP Algorithm using Error Alignment and Optimal Mutation Step	Carlos Goribar
11:00 - 11:15	Coffee break	
11:15 - 12:15	Keynote I: Combining Metaheuristics with Mathematical Programming and Data Mining	El-Ghazali Talbi
12:15 - 12:45	Coffee break	
12:45 - 13:45	Keynote II: New Criteria for Efficiency in Vector Optimization	Maxim Ivanov
13:45 - 15:00	Lunch	
15:00 - 15:45	Optimal Liquidation of Assets and Valuation of Derivatives	Gerardo Hernández
15:45 - 16:15	Differentiability of Hypervolume Indicator	André Deutz
16:15 - 16:45	Robust Ellipse Fitting Using a Multi-Objective Genetic Algorithm	Gerardo de la Fraga
16:45 - 17:00	Coffee break	
17:00 - 17:30	A Memetic Algorithm with a Hungarian Matching Based Crossover and Diversity Preservation for the Graph Partitioning Problem	Emmanuel Romero
17:30 - 17:50	A Neighborhood/decomposition based Evolutionary Algorithm for Parameter Dependent Multi-Objective Optimization Problems	Adrián Sosa
17:50 - 18:10	The Gradient Subspace Approximation for Multi-Objective Optimization	Sergio Alvarado
18:10 - 18:30	Pareto Explorer for the Treatment of Many Objective Optimization Problems	Oliver Cuate

September 21

08:45 - 09:30	Implementation of AMI with a Raspberry Pi and a LoRa Network	Raul Cortes Mateos
09:30 - 10:00	A Differential Evolution Algorithm for Mass Integration in Eco-Industrial Parks	Antonin Ponsich
10:00 - 10:30	A Novel Metaheuristic for Global Optimization based on Reactive Systems	Eric Rincón
10:30 - 10:45	Coffee break	
10:45 - 11:45	Keynote III: Multi-objective Optimal Defensive Driving Strategy for Autonomous Ground Vehicle in Mixed Traffic	Jian-Qiao Sun
11:45 - 12:00	Coffee break	
12:00 - 12:45	Topology and Combinatorics of Motion Planning in Robotics	Jesús González
12:45 - 13:15	A Platform to Optimize the Distribution of Law Enforcement Announcement through Location-based Services in Smart Cities	Jose Treviño
13:15 - 13:45	Addressing the Virtual Network Embedding Problem with Next-Generation Metaheuristics	Christian Aguilar
13:45 - 14:45	Lunch	
14:45 - 15:45	Keynote IV: Data-Driven 3D Modeling	Enrique Dunn
15:45 - 16:45	Poster session and coffee break	
16:45 - 17:30	Snow Plowing with Precedence	Francisco Zaragoza
17:30 - 18:00	Heuristics for Non-Crossing Euclidean 3-Matchings	Marco Heredia
18:00 - 18:15	Coffee break	
18:15 - 18:45	A Novel Multi-objective Evolutionary Algorithm for the Computation of the Set of Nearly Optimal Solutions	Carlos Hernández
18:45 - 19:15	Neural Networks for Statistical Modelling in the Useful Life of Steam Turbines	Abraham Gutierrez
19:15 - 19:30	Closing session	
20:00	Gala Dinner	

Poster Session

- Sergio Alvarado. *The Subspace Polynomial Mutation for Constrained Multi-Objective Optimization*
- Andrés Bernal. *A WebGIS Platform for Experimental Simulations in Urban Areas*
- Oliver Cuate. *Local Exploration of Discrete Many Objective Optimization Problems with the Pareto Explorer Framework*
- Carlos Hernández. *Barrier Trees for Continuous Landscapes by Means of Generalized Cell Mapping*
- Adriana Lara. *Design Issues for Multi-objective Memetic Algorithms*
- Adrián Sosa. *The Averaged Hausdorff Distance Newton Method as a Local Searcher for Indicator Based Evolutionary Algorithms*
- Lourdes Uribe. *A Novel Refining Archiver for Multi-objective Evolutionary Algorithms*



Schedule NEO Cities 2016

September 22

09:00 - 09:30	Registration	
09:30 - 10:00	Opening	
10:00 - 11:00	Mentor I: N.N.	Richard Bellingham
11:00 - 11:20	Coffee break	
11:20 - 11:40	Integrated Optimised Space-Earth Electro-optical Systems for Real-time Citywide Communication	Sunday Ekpo
11:40 - 12:00	Community Planning Partnerships: Empowering Communities Across Health and social integration and beyond	Manira Ahmad
12:00 - 12:20	Coffee break	
12:20 - 12:40	Internet of Things (IoT) Network Architectures/Protocol Design and Energy Optimization for Smart City Concept	Rupak Kharel
12:40 - 13:00	Route Generation for University Bus Service: the Case of Universidad Autónoma del Estado de México	Jaime Mora
13:00 - 13:20	N.N.	Rachel Freeman
13:20 - 14:30	Lunch	
14:30 - 15:00	Funding Opportunities I	Daniel Cedeno
15:00 - 15:30	Funding Opportunities II	Massimiliano Vasile
15:30 - 16:00	Coffee break	
16:00 - 16:20	Connected and Automated Vehicles: Opportunities and Challenges	Konstantinos Ampountolas
16:20 - 16:40	Energy-Efficient Train Timetables	Francisco Zaragoza
16:40 - 17:00	Hierarchical Optimization	Michael Farnsworth
17:00 - 17:10	Pitch posters	
17:10 - 18:30	Poster session and coffee break	
19:30	Dinner	

Tutorial

15:00 - 17:00	Meta-heuristics for Multi-objective Optimization	Carlos Coello
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Poster Session

- Mario Castelán. *3D Face Reconstruction from Mobile Devices for Realistic Avatar Generation*
- Ricardo Landa. *A Cultural Algorithm for the Electric Vehicle Charging Station Placement Problem*
- Adriana Lara. *Topological Data Analysis Tools for Urban Data Problems: A Survey*
- Yazmin Maldonado. *Integral System of Prehospital Emergency Units in Tijuana, Mexico*
- America Morales. *Optimal Greenhouses Development for Smart Cities by Considering a Sustainability Approach*
- Reyes Rios. *Towards Autonomous Mobile Robots to Assist Humans: Object Recognition and Manipulation*

September 23

09:00 - 09:20	Cities as a Living Lab - Showcasing Key Examples from the City Observatory Work	Janette Hughes
09:20 - 09:40	A Global/Local Exploration Tool for Many Objective Optimization Problems	Oliver Schütze
09:40 - 10:00	Planning and Data for the Changing Needs of an Ageing Population	Peter Knight
10:00 - 10:20	Coffee break	
10:20 - 11:20	Mentor II: An Introduction to Evolutionary Multi-Objective Optimization and Some of Its Applications in Smart Cities	Carlos Coello
11:20 - 11:40	Coffee break	
11:40 - 12:00	Intelligent Computational Engineering (ICE) Laboratory at Strathclyde University	Annalisa Riccardi
12:00 - 12:20	Heuristic Algorithms in Transportation, Logistics and Supply Chain	Marcela Quiroz
12:20 - 12:40	Enabling Smart-Grid Technologies for Future Cities	Kelvin Anoh
12:40 - 13:00	Coffee break	
13:00 - 13:20	Distribution Network Investments Optimisation with Multi-Objective Evolutionary Approaches	Eugene Butans
13:20 - 13:40	Data Processing Optimization in the Internet of Things	Ponciano Escamilla
13:40 - 14:00	Overview of the Evaluation of the Human Behaviour in Outdoor Spaces, according to the Thermal Environment	Julie Waldron
13:20 - 14:30	Lunch	
16:00 - 21:00	Excursion Tlalnepantla	

September 24

09:30 - 09:50	Model-driven Nodal Network Analysis and Investments Planning in Smart Grids	Jesus Nieto
09:50 - 10:10	Urban Form Energy Modelling Simulation Parameters & Tools: a Review Study	Anas Lila
10:10 - 10:30	Coffee break	
10:30 - 11:00	Introduction to group discussions	
11:00 - 14:00	Group discussions	
14:00 - 15:00	Lunch	
15:00 - 17:00	Open Discussion	
17:00 - 17:15	Closing session	
20:00	Dinner	