

12th International Symposium on Intelligent Distributed Computing (IDC 2018)

15-17 October 2018 at Bizkaia Aretoa, Bilbao, Spain

Final schedule:

IDC 2018	Monday, 15.10.2018			Tuesday, 16.10.2018			Wednesday, 17.10.2018			
	PLENARY ROOM (Baroja)	Arriaga Room	Laboa / Terrace	PLENARY ROOM (Baroja)	Arriaga Room	Laboa / Terrace	PLENARY ROOM (Baroja)	Arriaga Room	Laboa / Terrace	
8:30-8:45	Registration			Registration			Registration			
8:45-9:00										
9:00-9:15	Opening and Welcome									
9:15-9:30	Sherpa's Welcome									
9:30-9:45	<i>Beyond supervised and unsupervised scenarios: Weakly supervised classification</i> Prof. Jose A. Lozano			<i>Bioinspired Social Network Analysis: a case study on radical networks</i> Prof. David Camacho			<i>When Data Science meets Transportation</i> Prof. Eleni I. Vlahogianni			
9:45-10:00										
10:00-10:15										
10:15-10:30										
10:30-10:45			Coffee Break			Coffee Break			Coffee Break	
10:45-11:00										
11:00-11:15	Session IDC-1: Mobility & Smart Cities	Session IDC-2: Medicine and Biology		Session IDC-4: Industry	Session IDC-5: Robotics and Videogames	Coffee Break	Session IDC-8: Assorted Applications (II)	Session IDC-9: Search & Optimization	Coffee Break	
11:15-11:30										
11:30-11:45										
11:45-12:00										
12:00-12:15										
12:15-12:30										
12:30-12:45	Tutorial: Multi-Objective Big Data Optimization with jMetalSP			Tutorial: Applying Machine Learning to detect Android Malware			Tutorial: The K-means algorithm on Big Data domains			
12:45-13:00										
13:00-13:15										
13:15-13:30										
13:30-13:45										
13:45-14:00										
14:00-14:15			Lunch Break			Lunch Break				
14:15-14:30										
14:30-14:45										
14:45-15:00										
15:00-15:15	<i>Permutation-based Combinatorial Optimization Problems under the Microscope</i> Prof. Josu Ceberio			<i>Massive Online Analytics for the Internet of Things</i> Prof. Albert Bifet			IDC closing ceremony			
15:15-15:30										
15:30-15:45										
15:45-16:00										
16:00-16:15										
16:15-16:30			Coffee Break			Coffee Break				
16:30-16:45										
16:45-17:00	Session IDC-3: Internet of Things (I)			Session IDC-7: Assorted Applications (I)						
17:00-17:15										
17:15-17:30										
17:30-17:45										
17:45-18:00										

List of presentations per session:

IDC-1: Mobility and Smart Cities

1. Solving the Open-Path Asymmetric Green Traveling Salesman Problem in a Realistic Urban Environment
2. Road Traffic Forecasting using NeuCube and Dynamic Evolving Spiking Neural Networks
3. A Preliminary Study on Automatic Algorithm Selection for Short-Term Traffic Forecasting
4. Solving an Eco-Efficient Vehicle Routing Problem for Waste Collection with GRASP

IDC-2: Medicine and Biology

1. Automatic Fitting of Feature Points for Border Detection of Skin Lesions in Medical Images with Bat Algorithm
2. Multi-Objective Metaheuristics for a Flexible Ligand-Macromolecule Docking Problem in Computational Biology
3. Identifying the Polypharmacy Side-Effects in Daily Life Activities of Elders with Dementia

IDC-3: Internet of Things (I)

1. A Deep Learning Approach to Device-Free People Counting from WiFi Signals
2. Evolutionary Algorithms for Design of Virtual Private Networks
3. Forming Groups in the Cloud of Things Using Trust Measures
4. Terrorism and War: Twitter cascade analysis
5. A GA with local search based on Label Propagation for detecting dynamic communities

IDC-4: Industry

1. Decision Making in Industry 4.0 Scenarios supported by Imbalanced Data Classification
2. A hybrid optimization algorithm for standardization of maintenance plans
3. Labelling Drifts in a Fault Detection System for Wind Turbine Maintenance
4. Time series forecasting in turning processes using ARIMA model
5. A new distributed self-repairing strategy for transient fault cell in embryonic circuit

IDC-5: Robotics and Videogames

1. Applying Evolutionary Computation Operators for Automatic Human Motion Generation in Computer Animation and Video Games
2. A General-Purpose Hardware Robotic Platform for Swarm Robotics
3. Distributed Formation Tracking of Multi Robots with Trajectory Estimation

IDC-6: Internet of Things (II)

1. On the Design and Tuning of Machine Learning Models for Language Toxicity Classification in Online Platforms
2. Ensuring Availability of Wireless Mesh Networks for Crisis Management
3. A Hybrid Ensemble of Heterogeneous Regressors for Wind Speed Estimation in Wind Farms

IDC-7: Assorted Applications (I)

1. Drift Detection over Non-Stationary Data Streams using Evolving Spiking Neural Networks
2. Concept Tracking and Adaptation for Drifting Data Streams under Extreme Verification Latency
3. Adversarial Sample Crafting for Time Series Classification with Elastic Similarity Measures
4. Long distance in-links for ranking enhancement
5. Fostering Agent Cooperation in Aml: A Context-Aware Mechanism for Dealing with Multiple Intentions

IDC-8: Assorted Applications (II)

1. Knowledge-Based Metrics for Document Classification: Online Reviews Experiments
2. Scalable Inference of Gene Regulatory Networks with the Spark Distributed Computing Platform
3. An e-Exam Platform approach to Enhance University Academic Student's Learning Performance
4. A Study of Predictive Earliness of Traffic Flow Characterization for Software Defined Networking

5. Experiments of Distributed Ledger Technologies based on Global Clock Mechanisms

IDC-9: Search & Optimization

1. Bio-inspired approximation to MPPT under real irradiation conditions
2. Slot Co-allocation Optimization in Distributed Computing with Heterogeneous Resources
3. About Designing an Observer Pattern-Based Architecture for a Multi-Objective Metaheuristic Optimization Framework
4. Finding Best Compiler Options for Critical Software Using Parallel Algorithms
5. Collective Profitability of DAG-based Selling-Buying Intermediation Processes
