

ID	Date	Hour	Room	Session	TITLE	AUTHORS
1	Friday, 23th	11:00-13:00	Sala de Grados	S.3.4. Bio-Inspired Models and Evolutionary Computation II	Incorporating More Scaled Differences to Differential Evolution	Miguel Cárdenas Montes
5	Friday, 23th	11:00-13:00	Salón de Actos	S.3.3. Hybrid Intelligent Applications II	Application of Multiobjective Genetic algorithms to solve Reliability-Based Design Optimization problems	Luis Celorrio Barragué
6	Wednesday, 21st	08:30-10:30	Salón de Actos	S.1.1. Data Mining Applications I	Word Embedding based Event Detection on Social Media	Ali Mert Ertugrul, Burak Velioglu and Pinar Karagoz
7	Thursday, 22nd	08:30-10:30	Sala de Grados	S.2.2. Visual Analysis & Advanced Data Processing Techniques	Quantification and visualization of a heritage conservation in a Quito neighbourhood (Ecuador)	Jose F. Vicent, Taras Agryzkov, Jose Luis Oliver, Javier Santacruz and Leandro Tortosa
9	Thursday, 22nd	08:30-10:30	Sala de Grados	S.2.2. Visual Analysis & Advanced Data Processing Techniques	Establishing a Cooperation Between RadViz and SOM to Improve the Analyst Visual Experience	Rosa Matias
10	Thursday, 22nd	08:30-10:30	Salón de Actos	S.2.1. Data Mining Applications II	Context-aware Data Mining: Embedding External Data Sources in a Machine Learning Process	Oliviu Matei, Teodor Rusu, Andrei Bozga, Petrica Claudiu Pop and Carmen Anton
12	Wednesday, 21st	08:30-10:30	Sala de Grados	S.1.2. Learning Algorithms I	Kernel density-based pattern classification in blind fasteners installation	Alberto Díez Oliván, Mariluz Penalva, Fernando Veiga, Lutz Deitert, Ricardo Sanz and Basilio Sierra
13	Wednesday, 21st	08:30-10:30	Sala de Grados	S.1.2. Learning Algorithms I	Training Set Fuzzification Towards Prediction Improvement	Eva Volna, Jaroslav Zacek and Robert Jarusek
15	Thursday, 22nd	12:00-14:00	Sala de Grados	S.2.4. Hybrid Intelligent Applications I	Evolutionary computing for the sustainable management of educative institutions	Juan Ignacio Latorre-Biel and Emilio Jimenez-Macias
16	Wednesday, 21st	08:30-10:30	Sala de Grados	S.1.2. Learning Algorithms I	Effectiveness of basic and advanced sampling strategies on the classification of imbalanced data. A comparative study using classical and novel metrics	Mohamed S. Kraiem and María N. Moreno
17	Friday, 23th	09:30-10:30	Salón de Actos	S.3.1. Data Mining Applications III	Integration of case based reasoning in multi-agent system for the real-time container stacking in seaport terminals	Ines Rekik, Sabeur Elkosantini and Habib Chabchoub
18	Friday, 23th	09:30-10:30	Sala de Grados	S.3.2. Learning Algorithms II	A Perceptron Classifier, its Correctness Proof, and a Probabilistic Interpretation	Bernd-Jürgen Falkowski
19	Thursday, 22nd	08:30-10:30	Salón de Actos	S.2.1. Data Mining Applications II	Single and blended models for day-ahead photovoltaic power forecasting	Javier Antonanzas, Ruben Urraca, Alpha Pernía-Espinoza, Luis Alfredo Fernández-Jiménez and Francisco Javier Martínez-de-Pisón
20	Thursday, 22nd	12:00-14:00	Salón de Actos	S.2.3. Data Mining, Knowledge Discovery and Big Data II	Hybrid methodology based on Bayesian Optimization and GA-PARSIMONY for searching parsimony models by combining hyperparameter optimization and feature selection	Francisco Javier Martínez-De-Pisón, Rubén Gonzalez-Sendino, Alvaro Aldama, Javier Ferreira and Esteban Fraile
21	Wednesday, 21st	08:30-10:30	Salón de Actos	S.1.1. Data Mining Applications I	A Personality-Based Recommender System for Semantic Searches in Vehicles Sales Portals	Fábio A. P. Paiva, Jose A. F. Costa and Cláudio R. M. Silva
22	Wednesday, 21st	13:00-14:00	Sala de Grados	S.1.4. Data Mining, Knowledge Discovery and Big Data I	Sentiment Analysis on TripAdvisor: Are There Inconsistencies in User Reviews?	Ana Valdivia, M. Victoria Luzon and Francisco Herrera
23	Thursday, 22nd	08:30-10:30	Salón de Actos	S.2.1. Data Mining Applications II	Experimental evaluation of Straight Line Programs for hydrological modelling with exogenous variables	Ramón Rueda Delgado, Luis G. Baca Ruiz, Patricia Jimeno, Manuel Pegalajar Cuéllar, David Pulido Velazquez and María Del Carmen Pejalajar Jiménez
25	Friday, 23th	09:30-10:30	Salón de Actos	S.3.1. Data Mining Applications III	Integration of immune features into a Belief-Desire-Intention model for multi-agent control of public transportation systems	Salima Mnif, Saber Darmoul, Sabeur Elkosantini and Lamjed Ben Said
29	Thursday, 22nd	08:30-10:30	Salón de Actos	S.2.1. Data Mining Applications II	A Multi-Agent System to improve mobile robot localization	Cristian Peñaranda, Vicente Julian, Javier Palanca and Vicente Botti
30	Thursday, 22nd	08:30-10:30	Sala de Grados	S.2.2. Visual Analysis & Advanced Data Processing Techniques	Generation of Reducts Based on Nearest Neighbor Relations and Boolean Reasoning	Naohiro Ishii, Ipppei Torii, Kazunori Iwata and Kazuya Odagiri
31	Thursday, 22nd	12:00-14:00	Sala de Grados	S.2.4. Hybrid Intelligent Applications I	A Hybrid System of Deep Learning and Learning Classifier System for Database Intrusion Detection	Seok Jun Bu and Sung Bae Cho
32	Friday, 23th	11:00-13:00	Sala de Grados	S.3.4. Bio-Inspired Models and Evolutionary Computation II	Topological Evolution of Financial Network: A Genetic Algorithmic Approach	Ga Ching Lui, Chun Yin Yip and Kwok Yip Szeto
33	Wednesday, 21st	08:30-10:30	Sala de Grados	S.1.2. Learning Algorithms I	On the Impact of Imbalanced Data in Convolutional Neural Networks Performance	Francisco J. Pulgar, Antonio J. Rivera, Francisco Charre and María J. Del Jesus
34	Friday, 23th	09:30-10:30	Salón de Actos	S.3.1. Data Mining Applications III	A soft computing approach to optimize the production of biodiesel.	Marina Corral Bobadilla, Roberto Fernandez Martinez, Ruben Lostado Lorza, Fatima Somovilla Gomez and Eliseo Pablo Vergara Gonzalez
35	Wednesday, 21st	08:30-10:30	Sala de Grados	S.1.2. Learning Algorithms I	Parallel implementation of a simplified semi-physical wildland fire spread model using OpenMP	David Alvarez Leon, Diego Prieto Herraiz, Maria Isabel Asensio Sevilla, Jose Manuel Cascon Barbero and Luis Ferragut Canals
36	Friday, 23th	11:00-13:00	Sala de Grados	S.3.4. Bio-Inspired Models and Evolutionary Computation II	Optimization of Joint Sales Potential using Genetic Algorithm	Chun Yin Yip and Kwok Yip Szeto
37	Thursday, 22nd	08:30-10:30	Salón de Actos	S.2.1. Data Mining Applications II	Spanish Road fork traffic analysis and modelling	Irene Díaz, José Ramón Villar and Enrique de La Cal
38	Wednesday, 21st	08:30-10:30	Sala de Grados	S.1.2. Learning Algorithms I	A study on the noise label influence in boosting algorithms: AdaBoost, GBM and XGBoost	Anabel Gómez-Ríos, Julián Luengo and Francisco Herrera
43	Thursday, 22nd	12:00-14:00	Salón de Actos	S.2.3. Data Mining, Knowledge Discovery and Big Data II	An Ontology for Generalized Disease Incidence Detection on Twitter	Mark Magumba and Peter Nabende
44	Wednesday, 21st	12:00-14:00	Sala de Grados	S.1.4. Data Mining, Knowledge Discovery and Big Data I	Concept Discovery in Graph Databases: A Case Study with Neo4j	Furkan Goz and Alev Mutlu
46	Wednesday, 21st	08:30-10:30	Sala de Grados	S.1.2. Learning Algorithms I	rNPBST: An R package covering Non-parametric and Bayesian Statistical Tests	Jacinto Carrasco Castillo, Salvador García, María Del Mar Rueda García and Francisco Herrera
47	Friday, 23th	11:00-13:00	Sala de Grados	S.3.4. Bio-Inspired Models and Evolutionary Computation II	Evolutionary multi-objective scheduling for anti-spam filtering throughput optimization	David Ruano-Ordás, Vitor Basto-Fernandes, Iryna Yevseyeva and José Ramón Méndez Reboredo
48	Thursday, 22nd	08:30-10:30	Sala de Grados	S.2.2. Visual Analysis & Advanced Data Processing Techniques	Simulation of a Directional Process by Means of an Anisotropic Buffer Operator	María Dolores Muñoz Vicente and María N. Moreno García
49	Thursday, 22nd	08:30-10:30	Sala de Grados	S.2.2. Visual Analysis & Advanced Data Processing Techniques	Extraction of Outliers from Imbalanced Sets	Pavel Škrabánek and Natálie Martinková
50	Wednesday, 21st	13:00-14:00	Salón de Actos	S.1.3. Bio-Inspired Models and Evolutionary Computation II	A hybrid diploid genetic based algorithm for solving the generalized traveling salesman problem	Petrica Pop, Oliviu Matei and Cosmin Sabo
51	Thursday, 22nd	08:30-10:30	Salón de Actos	S.2.1. Data Mining Applications II	Application of the Systems Dynamics Approach to Model Inventive Problems	Jesús Delgado-Macié, Guillermo Cortes-Robles, Emilio Jiménez-Macias, Cuahtémoc Sánchez-Ramírez and Jorge García-Alcaraz
52	Friday, 23th	09:30-10:30	Sala de Grados	S.3.2. Learning Algorithms II	Solve Classification Tasks with Probabilities. Statistically-Modeled Outputs	Andrey Gritsenko, Emil Eirola, Daniel Schupp, Edward Ratner and Amaury Lendasse
53	Wednesday, 21st	08:30-10:30	Salón de Actos	S.1.1. Data Mining Applications I	Ensemble Trend Classification in the Foreign Exchange Market Using Class Variable Fitting	Andrew Kreimer and Maya Herman
54	Thursday, 22nd	12:00-14:00	Salón de Actos	S.2.3. Data Mining, Knowledge Discovery and Big Data II	Leveraging Distributed Representations of Elements in Triples for Predicate Linking	Natthawut Kertkeidkachorn and Ryutarō Ichise
55	Wednesday, 21st	13:00-14:00	Sala de Grados	S.1.4. Data Mining, Knowledge Discovery and Big Data I	Market Trends and Customer Segmentation for data of electronic retail store	Carlos Rodríguez, Miguel A. Patricio, Antonio Berlanga and Jose M. Molina
56	Thursday, 22nd	08:30-10:30	Sala de Grados	S.2.2. Visual Analysis & Advanced Data Processing Techniques	Visual Clustering Approach for Docking Results from Vina and AutoDock	Genesis Varela Salinas, Carlos Armando García-Perez, Rafael Pelaez and Adolfo Rodríguez
57	Wednesday, 21st	08:30-10:30	Salón de Actos	S.1.1. Data Mining Applications I	Smart Drivers' Guidance System based on IoT Technologies for Smart Cities Application	Imen Masmoudi, Wiam Elleuch, Ali Wali and Adel M. Alimi
59	Wednesday, 21st	13:00-14:00	Salón de Actos	S.1.3. Bio-Inspired Models and Evolutionary Computation II	A novel hybrid Nature-Inspired Scheme for solving a financial optimization problem	Alexandros Tzanetos, Vassilios Vassiliadis and George Dounias
61	Thursday, 22nd	12:00-14:00	Sala de Grados	S.2.4. Hybrid Intelligent Applications I	Forecasting satellite trajectories by interpolating hybrid orbit propagators	Iván Pérez, Montserrat San-Martín, Rosario López, Eliseo P. Vergara, Alexander Wittig and Juan Félix San-Juan
62	Friday, 23th	11:00-13:00	Salón de Actos	S.3.3. Hybrid Intelligent Applications II	Detecting Potential Design Weaknesses in SHADE through Network Feature Analysis	Adam Viktorin, Michal Pluhacek, Roman Senkerik and Tomas Kadavy
63	Wednesday, 21st	08:30-10:30	Salón de Actos	S.1.1. Data Mining Applications I	Machine Learning of Optimal Low-thrust Transfers between Near-Earth Objects	Alessio Mereta, Dario Izzo and Alexander Wittig
64	Friday, 23th	09:30-10:30	Sala de Grados	S.3.2. Learning Algorithms II	FRB-Dialog: A toolkit for automatic learning of fuzzy-rule-based (FRB) dialog managers	David Griol, Araceli Sanchis and Jose M. Molina
67	Wednesday, 21st	08:30-10:30	Salón de Actos	S.1.1. Data Mining Applications I	Finding communities in recommendation systems by multi-agent spatial dynamics	Leire Ozaeta and Manuel Graña
68	Wednesday, 21st	13:00-14:00	Salón de Actos	S.1.3. Bio-Inspired Models and Evolutionary Computation II	Hypersphere universe boundary method comparison on HCLPSO and PSO	Tomas Kadavy, Michal Pluhacek, Adam Viktorin and Roman Senkerik
69	Thursday, 22nd	12:00-14:00	Salón de Actos	S.2.3. Data Mining, Knowledge Discovery and Big Data II	A Review on Distributed Data Models for Learning	Miguel Angel Rodríguez, Alberto Fernández, Antonio Peregrín and Francisco Herrera
70	Thursday, 22nd	12:00-14:00	Sala de Grados	S.2.4. Hybrid Intelligent Applications I	NCRIO: A Normative Holonic Metamodel for Multi-agent Systems	Missaoui Ezzine, Mazigh Belhassen, Bhiri Sami and Hilaire Vincent
71	Friday, 23th	09:30-10:30	Salón de Actos	S.3.1. Data Mining Applications III	Neuronal Modeling of Solar Panels	Jose Manuel Lopez-Guede, Jose Antonio Ramos-Hernanz, Julian Estevez, Asier Garmendia and Manuel Graña
72	Thursday, 22nd	08:30-10:30	Sala de Grados	S.2.2. Visual Analysis & Advanced Data Processing Techniques	An enhanced hierarchical traitor tracing scheme based on clustering algorithms	Faten Chaabane
73	Wednesday, 21st	08:30-10:30	Salón de Actos	S.1.1. Data Mining Applications I	A proposal to enhance human-machine interaction by means of multi-agent conversational interfaces	David Griol, Araceli Sanchis and Jose M. Molina
74	Friday, 23th	11:00-13:00	Salón de Actos	S.3.3. Hybrid Intelligent Applications II	Adjust the thermo-mechanical properties of finite element models welded joints based on soft computing techniques	Roberto Fernández Martínez, Rubén Lostado Lorza, Marina Corral Bobadilla, Rubén Escribano García, Fátima Somovilla Gómez and Eliseo P. Vergara González
75	Wednesday, 21st	13:00-14:00	Salón de Actos	S.1.3. Bio-Inspired Models and Evolutionary Computation II	PSO with Partial Population Restart Based on Complex Network Analysis	Michal Pluhacek, Adam Viktorin, Roman Senkerik, Tomas Kadavy and Ivan Zelinka
76	Friday, 23th	11:00-13:00	Salón de Actos	S.3.3. Hybrid Intelligent Applications II	Hybridization of Analytic Programming and Differential Evolution for Time Series Prediction	Roman Senkerik, Adam Viktorin, Michal Pluhacek, Tomas Kadavy and Ivan Zelinka
79	Friday, 23th	09:30-10:30	Sala de Grados	S.3.2. Learning Algorithms II	Radial-Based Approach to Imbalanced Data Oversampling	Michał Koziarski, Bartosz Krawczyk and Michał Woźniak
80	Wednesday, 21st	13:00-14:00	Sala de Grados	S.1.4. Data Mining, Knowledge Discovery and Big Data I	Sentiment Classification from Multi-Class Imbalanced Twitter Data using Binarization	Bartosz Krawczyk, Bridget McInnes and Alberto Cano
81	Thursday, 22nd	12:00-14:00	Sala de Grados	S.2.4. Hybrid Intelligent Applications I	A Hybrid Approach to Detecting the Best Solution in Nurse Scheduling Problem	Svetlana Simic, Dragan Simic, Dragana Milutinovic, Jovanka Dordevic, Svetislav Simic