

# 2012 IEEE Conference on Evolving and Adaptive Intelligent Systems

## PROGRAM

17th of May 2012 (Thursday)

9:00 - OFFICIAL OPENING

### Session 1 - Evolving Systems

9:30	#12	On-line Active Learning Based on Enhanced Reliability Concepts	Edwin Lughofer.
9:50	#39	A Property of Learning Chunk Data Using Incremental Kernel Principal Component Analysis	Takaomi Tokumoto and Seiichi Ozawa
10:10	#26	Self-Adaptive Mechanism for Distributed Computing	Ichiro Satoh
10:30	#20	Online Learning with Kernels in Classification and Regression	Guoqi Li and Guang She Zhao.
10:50	#35	An Enhanced Approach for Evolving Participatory Learning Fuzzy Modeling	Leandro Maciel, Fernando Gomide and Rosangela Ballini

11:10 - COFFEE BREAK

### Session 2 - Adaptive Systems

11:30	#34	Adaptative Evolutionary Strategy for Robotic Manipulation	César Arismendi, Javier V. Gómez, Santiago Garrido and Luis Moreno.
11:50	#25	Elastic Adaptive Ontology Matching on Evolving Folksonomy Driven Environment	Massimiliano Dal Mas.
12:10	#22	Cognitively Inspired Classification for Adapting to Data Distribution Changes	Wing Yee Sit and K.Z. Mao
12:30	#18	A New Fuzzy Adaptive Law With Leakage	Saso Blazic, Igor Skrjanc and Drago Matko
12:50	#31	An Adaptive Soft-Sensor for Non-Destructive Cement-Based Material Testing, through the Use of RBF Networks	Alex Alexandridis, Dimos Triantis, Eva Chondrodima, Charalambos Stergiopoulos, George Hloupis, Ilias Stavrakas and Konstantinos Ninos.

13:10 - LUNCH

### Session 3 - Robotics and Intelligent Agents

14:10	#33	A Procedural Long Term Memory for Cognitive Robotics	Rodrigo Salgado, Francisco Bellas, Pilar Caamaño Sobrino, Borja Santos-Diez and Richard Duro
14:30	#7	Adaptive Strategy for Online Gait Learning Evaluated on the Polymorphic Robotic LocoKit	David Johan Christensen, Jørgen Christian Larsen and Kasper Stoy
14:50	#13	Platform for Building Large-Scale Agent-Based Systems	Carolina Zato, Alejandro Sánchez, Gabriel Villarrubia, Sara Rodríguez, Javier Bajo and Juan Manuel Corchado.
15:10	#8	On Path Planning: Adaptation to the Environment using Fast Marching	Javier V. Gómez, César Arismendi, Santiago Garrido and Luis Moreno.
15:30	#14	A Kinodynamic Planning-Learning Algorithm for Complex Robot Motor Control	Javier Gonzalez-Quijano, Mohamed Abderrahim, Fernando Fernandez and Choukri Bensalah
15:50	#6	An Adaptive Energy-Aware Routing Protocol for MANETs Using The SARSA Reinforcement Learning Algorithm	Saloua Chettibi and Salim Chikhi

16:10 - COFFEE BREAK

**Session 4 - Applications of Evolving Systems**

<b>16:40</b>	<b>#11</b>	<b>Autonomous Visual Self-localization in Completely Unknown Environment</b>	Pouria Sadeghi-Tehran, Sasmita Behera, Plamen Angelov and Javier Andreu
<b>17:00</b>	<b>#36</b>	<b>Evolving Activity Recognition from Sensor Streams</b>	Jose Antonio Iglesias, Javier Ordonez, Agapito Ledezma, Paula de Toledo and Araceli Sanchis
<b>17:20</b>	<b>#28</b>	<b>Automatic Mobile Photographer and Picture Diary</b>	Plamen Angelov, Javier Andreu and Tu Vuong.
<b>17:40</b>	<b>#10</b>	<b>A Real-time Approach for Novelty Detection and Trajectories Analysis for Anomaly Recognition in Video Surveillance Systems</b>	Pouria Sadeghi-Tehran and Plamen Angelov
<b>18:00</b>	<b>#15</b>	<b>Evolving Social Network Analysis: A Case Study on Mobile Phone Data</b>	Rashmi Dutta Baruah and Plamen Angelov.

**19:20 - BUS FROM LEGANÉS TO SANTIAGO BERNABEU STADIUM**

**19:45 - BUS FROM ATOCHA TO SANTIAGO BERNABEU STADIUM**

**GALA DINNER**

**23:00 - BUS SANTIAGO BERNABEU STADIUM TO ATOCHA AND LEGANÉS**

**18th of May 2012 (Friday)**

**Session 5 - Intelligent Systems**

<b>9:00</b>	<b>#30</b>	<b>Intelligent System for Automatic Reconfiguration of Distribution Networks</b>	Luciano Pfitscher, Daniel Bernardon, Luciane Canha, Vinicius Montagner, Lorenzo Comassetto and Maicon Ramos
<b>9:20</b>	<b>#32</b>	<b>An Evolutionary-Based approach in RBF Neural Network Training</b>	Alex Alexandridis.
<b>9:40</b>	<b>#9</b>	<b>Introducing the Fuzzy Relational Extended Composition and its Usage in Fuzzy Relational Modeling</b>	Arya Aghili Ashtiani and Mohammad Bagher Menhaj.
<b>10:00</b>	<b>#24</b>	<b>Data transformations and seasonality adjustments improve forecasts of MLP ensembles</b>	Domingos S. P. Salazar, Paulo J. L. Adeodato and Adrian L. Arnaud.
<b>10:20</b>	<b>#27</b>	<b>A self-organized system improving inner topology for data sharing efficiency</b>	Frédéric Armetta, Mohammed Haddad, Salima Hassas and Hamamache Kheddouci
<b>10:40</b>	<b>#29</b>	<b>Classification of Data Streams with Skewed Distribution</b>	Abhijeet Godase and Vahida Attar
<b>11:00 - COFEE BREAK</b>			

**Session 6 - Applications of Adaptive and Intelligent Systems**

<b>11:30</b>	<b>#17</b>	<b>A Multi-Objective Evolutionary Algorithm for Solving Integrated Scheduling and Layout Planning Problems in Manufacturing Systems</b>	Kazi Shah Nawaz Ripon, Kyrre Glette, Mats Hovin and Jim Torresen
<b>11:50</b>	<b>#4</b>	<b>Space-Based Nonlinear Dynamic Inversion Control for Aircraft Continuous Descent Approach</b>	Bouadi Hakim and Mora-Camino Félix.
<b>12:10</b>	<b>#2</b>	<b>Calibration of Stewart Platforms Using Neural Networks</b>	Dali Wang and Ying Bai.
<b>12:30</b>	<b>#19</b>	<b>Genotype-Phenotype with BNF Mapping: An Automatic Approach of Producing a Computer Program</b>	Rasha Abdulwahhab.
<b>12:50</b>	<b>#37</b>	<b>User Modeling in Changeable Environments</b>	Jose Antonio Iglesias and Esteban Garcia-Cuesta
<b>13:10 - LUNCH</b>			

**Special Session - Computational Intelligence applied to Forecast Time Series**

<b>14:30</b>	<b>#42</b>	<b>Parallelization of an Evolving Artificial Neural Networks System to Forecast Time Series using OPENMP and MPI</b>	Borja Prior Gonzalez, Juan Peralta Donate, Paulo Cortez, German Gutierrez Sanchez and Araceli Sanchis de Miguel.
<b>14:50</b>	<b>#43</b>	<b>SIOPRED performance in a Forecasting Blind Competition</b>	José D. Bermúdez, José V. Segura and Enriqueta Vercher.
<b>15:10</b>	<b>#44</b>	<b>Time Series Forecasting using Ensemble of AR models with Time-Varying Structure</b>	Ekaterina Mangalova and Evgeny Agafonov.
<b>15:30</b>	<b>#45</b>	<b>Sequential Learning of Differential Trend</b>	Eng Yeow Cheu.

**15:50 - CLOSING CEREMONY**

**16:10 - Meeting RESeT (Spanish Network on Time Series)**

**From 18:00 to 21:00 – GUIDED TOUR AROUND MADRID CITY**