AECIA 2016, November 21-23, Kenzi Farah Hotel, Avenue du Président Kennedy, 40000 - Marrakech, Morocco

November 21

8:00 - 9 :00	**Registration**
9:00 - 9:30	**Opening Ceremony**
9:30 - 10:30 **Plenary I: Nature-Inspired Optimization of Type-2 Fuzzy Logic Controllers**	*Oscar Castillo, Tijuana Institute of Technology, Tijuana, Mexico*
10:30 - 11:00	**Coffee break**

SESSION 1: Intelligent systems and engineering applications

11:00 - 13:00, ROOM B

Integrated Autopilot Complex System Proposal for Aircraft Model Application	*Chafaa Hamrouni, Abdessalem Bsissa, Kilani Neji, Adel Alimi and Naceur Abdelkrim*
Software Defined Stochastic Model for Moving Target Defense	*Iman El Mir, Ankur Chowdhary, Dijiang Huang, Sandeep Pisharody, Dong Seong Kim and Abdelkrim Haqiq*
Adaptive methods of process state evaluation – the development of an application for engineering purposes	*Agnieszka Kujawińska and Michał Rogalewicz*
Adaptive educational games using game metrics	*Nabila Hamdaoui, Mohammed Khalidi Idrissi and Samir Bennani*
Detection of Finger Flexions Based on Decision Tree	*Michal Prílepok, Ibrahim Salem Jahan and Vaclav Snasel*
Performance Analysis of a Proposed Architecture for Remote Construction Machines Diagnostics	*Ousmane Sadio, Ibrahima Ngom and Claude Lishou*
Learning with Big Data Technology : The Future of Education	*Marouane Birjali, Abderrahim Beni-Hssane and Mohammed Erritali*

13:00 - 14:30	**Lunch**

SESSION 2: Advances in networking and modelling

14:30 - 16:30, ROOM B

Maximizing the Delivery Rate for DTN Networks	*Abdellaoui Alaoui El Arbi and Nassiri Khalid*
Synthesis and Implementation of Timed Distributed Supervisory Controller: Application to an Automated Manufacturing System	*Yassine Qamsane, Abdelouahed Tajer, Alexandre Philippot and Abdelhadi Elbacha*
A new fuzzy clustering algorithm to enhance lifetime of Wireless Sensor Networks	*Hassan El Alami and Abdellah Najid*
A Game Theoretic Approach For Optimal And Secure Routing In WSN	*Hilmi Lazrag, Rachid Saadane and Driss Aboutajdine*
SAM: Scalable Addressing Mechanism for Structured P2P Networks	*Manaf Zghaibeh and Najam Ul Hasan*
Forecasting a Photovoltaic Power Output with Ordinary Differential Equation Solutions using the "Aladin" model	*Ladislav Zjavka and Václav Snášel*
Statistical modeling for improvement of numerical-model-based solar radiation forecasts	*Marek Brabec, Emil Pelikan, Pavel Krc, Krystof Eben, Jaroslav Resler and Pavel Jurus*

November 22

8:30 - 9:30 **Plenary II: IoT analytics: from Big data to Fast and Smart Data**	*Layth Sliman, EFREI, France*
9:30 - 10:00	**Coffee break**
10:00 - 11:00 **Plenary III: Differential networks - derivative neuro-computing**	*Ladislav Zjavka, VSB-TU Ostrava*

SESSION 4: Modelling and identification

11:00 - 13:00, ROOM B

An enhanced delay time model to support evidence based maintenance in healthcare domain	*Hassana Mahfoud, Abdellah El Barkany and Ahmed Biaali*
Fall Detection for Elderly based on Background Subtraction and Key Points Matching	*Nawres Khlifa and Syhem Samti*
Non-Invasive Fetal ECG Extraction from Maternal Abdominal ECG Using LMS and RLS Adaptive Algorithms	*Radana Kahankova, Radek Martinek and Petr Bilik*
A two-stage Feature Extraction Approach for ECG signals	*Essam Houssein, Moataz Kilany, Aboul Ella Hassanien and V. Snasel*
A Novel Ant colony optimization Based Cryptanalysis of Substitution Cipher	*Hicham Grari, Ahmed Azouaoui and Khalid Zine-Dine*
Fish Growth Performance Classification Based on Ammonia Concentrations	*Moetez Elkilany, Mohamed Mostafa Fouad, Ahmed Monem Hemdan and Aboul Ella Hassanien*
A novel Arabic Writer Identification System using texture feature on multi-resolution levels	*Kallel Faten, anis Mezghani, Slim Kanoun and Monji Kherallah*

13:00 - 14:30	**Lunch**

SESSION 5: Software engineering and applications

14:30 - 16:30, ROOM B

Exploratory Data Analysis of Software Requirements using Statistics and Kohonen's Self-Organizing Map	*Radoslav Štrba, Kristína Štrbová, Ivo Vondrák, David Ježek and Svatopluk Štolfa*
Method for Estimation of Software Requirements using Neural Network based Classification Technique	*Radoslav Štrba, Ivo Vondrák, David Ježek and Svatopluk Štolfa*
Active and Reactive Power Robust Control of Doubly Fed Induction Generator Wind Turbine to satisfy new grid codes	*Mbarek Taleb*
New strategy for remote Practical Works in Power Electronics for Embedded Systems: Application in EOLES European Project	*Abdessamad Malaoui, Monji Kherallah, Lila Ghomri, Guillaume Andrieu, Denis Barataud and Fredon Thomas*
Optimization of the Training Symbols for Minimum Mean Square Error Equalizer	*Radek Martinek, George Razera, Jan Zidek and Radana Kahankova*
Arabic Font recognition based on Discret curvelet transform	*Kallel Faten, Anis Mezghani, Slim Kanoun and Monji Kherallah*
Improving the Speed and Quality of Extreme Learning Machine by Conjugate Gradient Method	*Tomas Jezowicz, Petr Gajdos, Vojtech Uher and Stanislav Misak*

November 21	
16:30 - 16:50	**Coffee break**

SESSION 3: Machine learing and classification	
16:50 - 18:30, ROOM B	
Fuzzy Logic and Multi-Agent for Active Contour Models	*Nachour Abdelhafid, Ouzizi Latifa and Youssef Aoura*
Graph Community Detection: Normalized Compression Distance Based Implementation for Text Data	*Abhishek Sanwaliya, Sunil Kumar Chinnamgari, ABHISHEK DESAI and Arijit Saha*
Contribution on character modelling for handwritten Arabic text recognition	*Anis Mezghani, Faten Kallel, Slim Kanoun and Monji Kherallah*
New multi-criteria decision-making based on fuzzy similarity, distance and ranking	*Mohamed El Alaoui, Hussain Ben-Azza and Azeddine Zahi*

November 22	
16:30 - 17:30	**Coffee break & poster session**

POSTER SESSION	
P1: Indoor Localization using Improved Multinomial Naïve Bayes Technique	*Muhammad Aziz Ul Haq, Hammid Mehmood Allah Dita Kamboh, Usman Akram, Amer Sohail and Hifsa Iram*
P2: Automated Computer Aided Detection of Cataract	*Albab Ahmad Khan, Muhammad Usman Akram, Ahmad Tariq, Faraz Tahir and Kamran Wazir*
P3: Analysis of Air Pollution in Vertical Profile Using Self-Organizing Maps	*Kristína Štrbová, Radoslav Štrba, Helena Raclavská and Jiří Bílek*
P4: Generation of High resolution Medical Images using Super Resolution via Sparse Representation	*Muhammad Asif, Shoab Ahmed Khan, Taimur Hassan, Muhammad Usman Akram and Arslan Shaukat*
P5: A novel architecture for k-means clustering algorithm	*Sajid Gul Khawaja, Asad Masoor Khan, Muhammad Usman Akram and Shoab Khan*