SCHEDULE – PAPER PRESENTATION

14th December, Wednesday - Parallel Session 1: (ROOM 1)	
Chairs:	
Classification and Clustering	
11.00 – 11.15 Paper ID112	Trust Intrusion Detection System based on Location for Wireless Sensor Network Hela Maddar, Wafa Kammoun and Habib Youssef
11.15 – 11.30 Paper ID59	A Gamification Model for Resource Sharing in Malaysian Schools using Cloud Computing Platform M Nordin A Rahman
11.30 – 11.45 Paper ID9	Improving Imputation Accuracy in Ordinal Data Using Classification Shafiq Alam
11.45 – 12.00 Paper ID12	Three Case Studies Using Agglomerative Clustering Rodrigo Camargos and M. C. Nicoletti
12.00 – 12.15 Paper ID17	Investigating the Effect of Combining Text Clustering with Classification on Improving Spam Email Detection Doaa Hassan
12.15 – 12.30 Paper ID24	Using Cluster Barycenters for the Generalized Traveling Salesman Problem Mehdi El Krari, Belaïd Ahiod and Bouazza El Benani
12.30 – 12.45 Paper ID61	
12.45 – 13.00 Paper ID	

14th December, Wednesday - Parallel Session 1: (ROOM 2)	
Chairs:	
Data Mining	
11.00 – 11.15 Paper ID84	A Parallel Adaptive PSO Algorithm with non-Iterative Electrostatic Repulsion and Social Dynamic Neighborhood Wilson Soto and Daniel Soto
11.15 – 11.30 Paper ID38	A Minimal Rare Substructures-Based Model for Graph Database Indexing Mehdi Azaouzi and Lotfi Ben Romdhane
11.30 – 11.45 Paper ID102	Industrial Plant Layout Analysing based on SNA Leonilde Varela, Adriana Araújo, Goran Putnik, V. Manupati and K. Anirudh
11.45 – 12.00 Paper ID76	Mining perfectly rare itemsets on Big Data: an approach based on Apriori-Inverse and MapReduce Francisco Padillo, J. M. Luna and Sebastián Ventura
12.00 – 12.15 Paper ID134	A Proposal to Model Knowledge Dimension in Sensitive Business Processes Mariam Ben Hassen, Mohamed Turki and Faïez Gargouri
12.15 – 12.30 Paper ID125	BigDimETL: ETL for multidimensional Big Data Hana Mallek, Faiza Ghozzi, Olivier Teste and Faiez Gargouri
12.30 – 12.45 Paper ID130	A Contribution of Dynamical Systems Theory and Epidemiological Modeling to a Viral Marketing Campaign João N. C. Gonçalves, Helena Sofia Rodrigues and M. Teresa T. Monteiro
12.45 – 13.00 Paper ID	

14th December, Wednesday - Parallel Session 2: (ROOM 1)	
Chair:	
Image Processing and Pattern Analysis	
14.00 – 14.15 Paper ID30	Nuclei Malignancy Analysis Based On An Adaptive Bottom-Hat Filter Tiia Ikonen, Keijo Haataja, Pekka Toivanen, Teemu Tolonen and Jorma Isola
14.15 – 14.30 Paper ID110	Age And Gender Classification From Finger Vein Patterns Wafa Damak, Randa Boukhris Trabelsi, Alima Damak Masmoudi, Dorra Sellami and Amine Nait-Ali
14.30 – 14.45 Paper ID39	Multibiometrics Enhancement Using Quality Measurement In Score Level Fusion Saliha Artabaz, Layth Sliman, Hachemi Nabil Dellys, Karima Benatchba and Mouloud Koudil
14.45 – 15.00 Paper ID43	Using a Synthetic Character Database for Training Deep Learning Models Applied to Offline Handwritten Recognition Jorge Sueiras, Victoria Ruiz, Angel Sanchez and Jose Velez
15.00 – 15.15 Paper ID4	Reliable Attribute Selection based on Random forest(RASER) Noura Aboudi, Hechmi Shili and Lotfi Ben Romdhane
15.15 – 15.30 Paper ID33	Age, Gender, Race And Smile Prediction Based On Social Textual And Visual Data Analyzing Onsa Lazzez, Wael Ouarda and Adel M. Alimi
15.30 – 15.45 Paper ID40	Effects Of Random Sampling On SVM Hyper-Parameter Tuning Tomas Horvath, Rafael G. Mantovani and Andre C. P. L. F. de Carvalho
15.45 – 16.00 Paper ID	

14th December, Wednesday - Parallel Session 2: (ROOM 2)	
Chairs:	
Heuristic Approaches	
14.00 – 14.15 Paper ID49	Fish School Search Variations and Other Metaheuristics in the solution of Assembly Line Balancing Problems Isabela Maria Carneiro de Albuquerque, João Batista Monteiro Filho, Fernando B. De Lima Neto and Alany M. de Oliveira Silva
14.15 – 14.30 Paper ID50	Improved Search Mechanisms for the Fish School Search Algorithm João Batista Monteiro Filho, Isabela Maria Carneiro de Albuquerque, Fernando Buarque De Lima Neto and Filipe Vieira Silva Ferreira
14.30 – 14.45 Paper ID41	Bayesian Networks for Identifying Semantic Relations in a Never-Ending Learning System Edimilson Batista Dos Santos, Massilon Lourenço Fernandes, Estevam R. Hruschka Júnior and Maísa Cristina Duarte
14.45 – 15.00 Paper ID34	Test Suite Prioritization using Nature Inspired Meta-Heuristic Algorithms Daya Gupta and Vishal Gupta
15.00 – 15.15 Paper ID52	Heuristic For Scheduling Intrees On M Machines With Non-Availability Constraints Khaoula Ben Abdellafou, Hatem Hadda and Ouajdi Korbaa
15.15 – 15.30 Paper ID118	An ILS Heuristic For The Waste Collection Vehicle Routing Problem With Time Windows Alba Assis Campos and Jose Elias Claudio Arroyo
15.30 – 15.45 Paper ID127	A General VNS Heuristic For A Three-Stage Assembly Flow Shop Scheduling Problem Saulo Cunha Campos, Jose Elias Claudio Arroyo and Ricardo Tavares
15.45 – 16.00 Paper ID95	Security Incident Response: Towards A Novel Decision-Making System Samih Souissi, Ahmed Serhrouchni, Layth Sliman and Benoit Charroux

14th December, Wednesday - Parallel Session 3: (ROOM 1)	
Chairs:	
Optimization and Hybrid Strategies	
16.30 – 16.45 Paper ID10	GA-PSO-FASTSLAM: A Hybrid Optimization Approach in Improving FastSLAM Performance Alif Ridzuan Khairuddin, Mohamad Shukor Talib, Habibollah Haron and Muhamad Yazid Che Abdullah
16.45 – 17.00 Paper ID28	Robust and Reliable Bionic Optimization of Nonlinear Control Problems Rolf Steinbuch and Lukas Haas
17.00 – 17.15 Paper ID75	Multi-objective Particle Swarm Optimisation for Robust Dynamic Scheduling in a Permutation Flow Shop Mohanad Al-Behadili, Djamila Ouelhadj and Dylan Jones
17.15 – 17.30 Paper ID117	An Approach For Incorporating The Usability Optimization Process Into The Model Transformation Marwa Hentati, Lasaad Benammar, Abdelwaheb Trabelsi and Adel Mahfoudhi
17.30 – 17.45 Paper ID81	Learner's Profile Hierarchization In An Interoperable Education System Leila Ghorbel, Corinne Amel Zayani, Ikram Amous and Florence Sèdes

14th December, Wednesday - Parallel Session 3: (ROOM 2)	
Chairs:	
Detection and Prediction	
16.30 – 16.45 Paper ID22	Diversification Strategies in Differential Evolution Algorithm to Solve the Protein Structure Prediction Problem Pedro Henrique Narloch and Rafael Parpinelli
16.45 – 17.00 Paper ID29	Human Detection Using Biological Signals In Camera Images With Privacy Aware Toshihiro Kitajima, Edwardo Arata Y. Murakami, Shunsuke Yoshimoto, Yoshihiro Kuroda and Osamu Oshiro
17.00 – 17.15 Paper ID114	Cloudlets Architecture for Wireless Sensor Network Hela Maddar, Wafa Kammoun and Habib Youssef
17.15 – 17.30 Paper ID86	Detection of Behavioral Patterns for Increasing Attentiveness Level Dalila Durães, Sérgio Gonçalves, Davide Carneiro, Javier Bajo and Paulo Novais
17.30 – 17.45 Paper ID	

15th December, Thursday - Parallel Session 4: (ROOM 1)	
Chairs:	
Neural Networks and Fuzzy Systems	
11.00 – 11.15 Paper ID27	Certification under Uncertainties of Control Methods for Multi-source Elevators Chloé Desdouits, Mazen Alamir, Rodolphe Giroudeau and Claude Le Pape
11.15 – 11.30 Paper ID31	Self-Organizing Maps and Fuzzy C-means Algorithms on Gait Analysis Based on Inertial Sensors Data Rafael Caldas, Yabing Hu, Fernando B. De Lima Neto and Bernd Markert
11.30 – 11.45 Paper ID45	A Genetic-Fuzzy Classification Approach to improve High-Dimensional Intrusion Detection System Imen Gaied, Farah Jemili and Ouajdi Korbaa
11.45 – 12.00 Paper ID88	M2Onto: an Approach and a Tool to Learn OWL Ontology from MongoDB Database Hanen Abbes and Faiez Gargouri
12.00 – 12.15 Paper ID99	An improved Elman Neural Network for Daily Living Activities Recognition Zaineb Liouane, Tayeb Lemlouma, Philippe Roose, Frederic Weis and Hassani Messaoud
12.15 – 12.30 Paper ID103	A Genetic Neural Network Approach for Unusual Behavior Prediction in Smart Home Zaineb Liouane, Tayeb Lemlouma, Philippe Roose, Frederic Weis and Hassani Messaoud
12.30 – 12.45 Paper ID138	Analysing The Performance Of A Tomographic Reconstructor With Different Neural Networks Frameworks Sergio L. Suárez, Carlos González, Jesús D. Santos, María L. Sánchez, Fernando Sánchez-Lasheras and Francisco Javier de Cos
12.45 – 13.00 Paper ID137	Similarity And Trust Metrics Used In Recommender Systems: A Survey Maryam Jallouli, Sonia Lajmi and Ikram Amous

15th December, Thursday - Parallel Session 4: (ROOM 2)	
Chairs:	
Machine learning	
11.00 – 11.15 Paper ID63	Multi-Objective Dynamic Analysis using Fractional Entropy Eduardo Solteiro Pires, José Tenreiro Machado and Paulo Moura Oliveira
11.15 – 11.30 Paper ID85	Fishing Monitor System Data: A Naïve Bayes Approach João Ferreira, Serge Lage, Iola Pinto and Nuno Antunes
11.30 – 11.45 Paper ID101	Evaluation of the Simulated Annealing and the Discrete Artificial Bee Colony in the Weight Tardiness Problem with Taguchi Experiments Parameterization André Santos, Ana Madureira and Leonilde Varela
11.45 – 12.00 Paper ID120	Metaheuristics Parameter Tuning using Racing and Case-based Reasoning in Scheduling Systems Ivo Pereira, Ana Madureira and Bruno Cunha
12.00 – 12.15 Paper ID107	Towards Better SWRL Rules Dependency Extraction Abeer Boujelben, Tarak Chaari and Ikram Amous
12.15 – 12.30 Paper ID123	A Branch-and-Price Algorithm for the Double Vehicle Routing Problem with Multiple Stacks and Heterogeneous Demand Jonatas Chagas and André Santos
12.30 – 12.45 Paper ID139	Robot Swarms Theory Applicable to Seek and Rescue Operation Juan Manuel Calderon and Jose Leon
12.45 – 13.00 Paper ID	

15th December, Thursday - Parallel Session 5: (ROOM 1)	
Chairs:	
Networks and Communication	
14.00 – 14.15 Paper ID26	On Pollution Attacks In Fully Connected P2P Networks Using Trusted Peers Cristóbal Medina-López, Ilshat Shakirov, Leocadio G. Casado and Vicente González-Ruiz
14.15 – 14.30 Paper ID131	Developing an Ambient Intelligent-Based Decision Support System for Production and Control Planning Marco Gomes, Fábio Silva, Filipa Ferraz, António Silva, Paulo Novais and Cesar Analide
14.30 – 14.45 Paper ID56	Network Intrusion Detection using Danger Theory and Genetic Algorithms João Santanelli and Fernando Neto
14.45 – 15.00 Paper ID91	Emerging Opportunities For Ambient Intelligence In Creativity Support Tools Frederica Gonçalves, Eduardo Fermé and João C. Ferreira
15.00 – 15.15 Paper ID90	Towards Activity Theory - Preliminary Report: Ambient Intelligence Applied To Smart Education Frederica Gonçalves, Eduardo Fermé, Ana Lúcia Martins and João C. Ferreira
15.15 – 15.30 Paper ID12	Three Case Studies Using Agglomerative Clustering Rodrigo Camargos and M. C. Nicoletti
15.30 – 15.45 Paper ID8	Agglomerative and Divisive Approaches to Unsupervised Learning in Gestalt Clusters Rodrigo Camargos, Paulo Rogerio Nietto and Maria Do Carmo Nicoletti
15.45 – 16.00 Paper ID05	Estimating the Number of Clusters as a Pre-Processing Step to Unsupervised Learning Paulo Rogerio Nietto and Maria Do Carmo Nicoletti
16.00 – 16.15 Paper ID	

15th December, Thursday - Parallel Session 5: (ROOM 2)	
Chairs:	
Information Systems and Software Architecture	
14.00 – 14.15 Paper ID106	Architecture of Adaptive Decision Support System for Intelligent Scheduling Ana Madureira, Ivo Pereira and Bruno Cunha
14.15 – 14.30 Paper ID135	Using Intelligent Systems To Improve Case Flow In Court Systems Ana Lúcia Martins
14.30 – 14.45 Paper ID97	Enabling The Definition And Reuse Of Multi-Domain Workflow-Based Data Analysis Rubén Salado-Cid and José Raúl Romero
14.45 – 15.00 Paper ID62	Memetic Algorithms For The Automatic Discovery Of Software Architectures Aurora Ramírez, Rafael Barbudo Lunar, José Raúl Romero and Sebastián Ventura
15.00 – 15.15 Paper ID111	Coupling Event-B/ProB for the analysis of the Software Architecture Evolution described in PDDL Farah Fourati, Mohamed Tahar Bhiri and Riadh Robbana
15.15 – 15.30 Paper ID92	Time Series Data Mining For Energy Prices Forecasting: An Application To Real Data Eliana Costa E Silva, Ana Borges, M. Filomena Teodoro, Marina Andrade and Ricardo Covas
15.30 – 15.45 Paper ID126	Knowledge Integration in Collaborative Environments Using Supervised Ontological Alignment Leandro Pupo Natale and Nizam Omar
15.45 – 16.00 Paper ID105	An Approach For Measuring Flexibility Of Business Processes Based On Distances Between Models And Their Variants Asma Mejri, Sonia Ayachi and Ricardo Martinho
16.00 – 16.15 Paper ID109	Evaluating the Quality of Business Process Models based on measures and Criteria in Higher Education: Developing a Framework for continuous quality improvement Fouzia Kahloun and Sonia Ayachi Channouchi

Virtual Presentations

Room 3: 14th - 15th December, 2016
Historic Document Image De-Noising using Principal Component Analysis (PCA) and Local Pixel Grouping (LPG) Tang Han Yang, Azah Kamilah Muda and Choo Yun Huoy
Evaluation method for an adaptive user interface Rim Rebai
A new trajectory optimization approach for safe mobile robot navigation: a comparative study (Khepera II mobile robot) Walid Ellili, Abdelfetteh Lachtar and Mounir Samet
Training a Spiking Neural Network to Generate Online Handwriting Movements Mahmoud Ltaief, Hala Bezine and Adel M.Alimi
CCL: Cognitive Conversation Language Wesley Willy Oliveira de Souza and Estevam Rafael Hruschka Jr.
A Survey On Outlier Detection In The Context Of Stream Mining : review Of Existing Approaches And Recommendations Imen Souiden, Zaki Brahmi and Hajer Toumi
A Modified Naive Possibilistic Classifier for Numerical Data Karim Baati, Tarek M. Hamdani, Adel M. Alimi and Ajith Abraham
Multi-Agent Based Truck Scheduling Using Ant Colony Intelligence in a Cross-docking platform Houda Zouhaier, Lamjed Ben Said
Forecasting Using Elman Recurrent Neural Network Emna Krichene, Youssef Masmoudi, Adel M. Alimi, Ajith Abraham and Habib Chabchoub
Patient-specific epilepsy seizure detection using random forest classification over one-dimension transformed EEG data Marco Antonio Pinto Orellana and Fabio Ribeiro Cerqueira
A new approach to Human Activity Recognition using Machine Learning techniques Leandro B. Marinho, Amauri Souza Júnior and Pedro Pedrosa Rebouças Filho
Lung Segmentation in Chest Computerized Tomography Images Using the Border Following Algorithm Murillo Rodrigues, Leandro Marinho, Raul Victor Nóbrega, João Wellington Souza and Pedro Pedrosa Rebouças Filho
ACO-PSO Optimization for Solving TSP Problem with GPU Acceleration Olfa Bali, Walid Elloumi, Ajith Abraham and Adel Alimi
Comparison of hard and probabilistic evidence in Bayesian model Rim Rebai
Towards an Approach Based on Ontology for Semantic-Temporal Modeling of Social Network Data Chiha Rim and Ben Ayed Mounir
New Adaptive Resource Allocation Scheme in LTE-Advanced Radhia Khdhir, Kais Mnif, Aymen Belguith and Lotfi Kamoun
Clustering of Maintenance Tasks for the Danish Railway System Shahrzad Mohammadpour and Una Benlic
Temporal Patterns Visualization for Knowledge Acquisition In Dynamic Decision-Making Environment Jihed Elouni, Hela Ltifi, Mounir Ben Ayed and Mohamed Masmoudi
Community Detection in Bipartite Networks Using a Noisy Extremal Optimization Algorithm Noémi Gaskó, Rodica Ioana Lung and Mihai Suciu
An NLP-based Ontology Population for intentional structure Noura Labidi, Tarak Chaari and Rafik Bouaziz
CobWeb Multidimensional Model: Visualizing OLAP Query Results Using Tag-Cloud Operators Omar Khrouf
A new Data Placement approach for Scientific Workflows in Cloud Computing environments Hamdi Kchaou, Zied Kechaou and Adel M. Alimi

Evaluation of the Simulated Annealing and the Discrete Artificial Bee Colony in the Weight Tardiness Problem with Taguchi Experiments Parameterization André Santos, Ana Madureira and Leonilde Varela
A Robust and Optimally Pruned Extreme Learning Machine Ananda Freire and Ajalmar Rocha Neto
Radial Basis Function Neural Networks For Datasets With Missing Values Diego Mesquita and João Gomes
A Novel Simulated Annealing-Based Learning Algorithm For Training Support Vector Machines Madson Luiz Dantas Dias and Ajalmar Rêgo Da Rocha Neto
Towards NoSQL Graph Data Warehouse for Big Social Data Analysis Hajer Akid and Mounir Ben Ayed
From Traditional Data Warehouse To Real Time Data Warehouse Senda Bouaziz
A New Social Media Mashup Approach Abir Troudi, Corinne Amel Zayani, Salma Jamoussi and Ikram Amous
A Time Delay Neural Network For Online Arabic Handwriting Recognition Ramzi Zouari, Houcine Boubaker and Monji Kherallah
Efficient parameterization for Automatic speaker recognition using Support Vector Machines Rania Chakroun, Mondher Frikha and Leila Beltaifa
Towards a Medical Intensive Care Unit Decision Support System based on Intuitionistic Fuzzy Logic Hanen Jemal, Zied Kechaou and Mounir Ben Ayed
Data Fusion Classification Method Based On Multi Agents System Elhoucine Ben Boussada, Mounir Ben Ayed and Adel M.Alimi
Intelligent Traffic Congestion Prediction System Based On ANN And Decision Tree Using Big GPS Traces Wiam Elleuch, Ali Wali and Adel Alimi
Linguistic Representation by Fuzzy Formal Concept and Interval Type-2 Feature Selection Sahar Cherif, Nesrine Baklouti, Mohamed Adel Alimi and Vaclav Snasel
The Improvement of an Image compression Approach Using Weber-Fechner Law Mourad Rahali, Mohamed Salim Bouhlel and Habiba Loukil
Combinatorial Structural Clustering (CSC): A Novel Structural Clustering Approach For Large Scale Networks Liang Chen, Hongbo Liu, Weishi Zhang and Bo Zhang