16th International Conference on Hybrid Intelligent Systems
(HIS 2016)

&

8th World Congress on Nature and Biologically Inspired Computing
(NaBIC 2016)

November 21-23, 2016
Marrakech, Morocco

Technical Programme

Day 1: November 21, 2016

08:00 – 09:00: Registration

09:00-09:30: Opening ceremony

09:30-10:30: Plenary Talk I: Nature-Inspired Optimization of Type-2 Fuzzy Logic Controllers
                        Oscar Castillo, *Tijuana Institute of Technology, Tijuana, Mexico*

10:30-11:00: Coffee Break

11:00-13:00: Session 1 (Room A): **HIS 01**
Chair: Ghita Mezzour

Mohamed Nabil, Abdelmajid Hajami and Abdelkrim Haqiq
A Stable Route and the Remaining Time Prediction to send a data packet in Highway Environment

Frumen Olivas, Fevrier Valdez and Oscar Castillo
Fuzzy logic dynamic parameter adaptation in the Gravitational Search Algorithm

Peng Cao, Xiaoli Liu, Dazhe Zhao and Osmar Zaiane
Sparse learning and hybrid probabilistic oversampling for Alzheimers Disease diagnosis

Abdesselem Dakhli, Wajdi Bellil and Chokri Benamar
DNA Sequence Classification using Power Spectrum and Wavelet neural network

Mohamed El Fissaoui, Abderrahim Beni-Hssane and Mostafa Saadi
Energy aware hybrid scheme of client-server and mobile agent models for data aggregation in wireless sensor networks

Feriel Romdhane, Faouzi Benzarti and Hamid Amiri
3D CT Denoising by New Combination between Nl-Mean Filter and Diffusion Tensor

Peng Cao, Xiaoli Liu, Dazhe Zhao and Osmar Zaiane
Sparse learning and hybrid probabilistic oversampling for Alzheimers Disease diagnosis

Sana Khamekhem, Yousri Kessentini and Slim Kanoun
Benchmarking Post-Processing Techniques for Offline Arabic Text Recognition System

13:00 – 14:30: Lunch

14:30 – 16: 30: Session 2 (Room A): HIS 02
Chair: Layth Sliman

Mehdi El Krari, Belaïd Ahiod and Bouazza El Benani
An Empirical Study of The Multi-Fragment Tour Construction Algorithm for The Travelling Salesman Problem

Hlel Emna, Jamoussi Salma, Ben Hamadou Abdelmajid and Turki Mohamed
Building probabilistic ontologies based on meta-model PODM

Iman El Mir, Abdelkrim Haqiq and Dong Seong Kim
Performance Analysis and Security based on Intrusion Detection and Prevention Systems in Cloud Data Centers

Ahmed Cheikh Rouhou, Zeineb Abdelhedi and Yousri Kessentini
A HMM-Based Arabic/Latin Handwritten/Printed Identification System

Lamyaa Sadouk, Taoufiq Gadi and El Hassan Essoufi
A novel approach of deep convolutional neural networks for sketch recognition

Mustapha Jamma, Mohamed Barara, Abderrahim Bennassar and Mohammed Akherraz
Intelligent control strategy of a three-phase PWM rectifier based on artificial neural networks approach and fuzzy logic controller

Haifeng Wang, Bin Yang and Jiaguo Lv
Complex-Valued Neural Network Model and Its Application to Stock Prediction

Mubashiora Zaman, Soweba Rahman, Tooba Rafique, Filza Ali and Muhammad Usman Akram
Hand Gesture Recognition using Color Markers

Alaeddine Dronga, Lobna Hsairi and Khaled Ghedira.
Integration of game theory in R²-IBN framework for conflict resolution in a Multi-agents model of an extended enterprise

16:30 – 16:50: Coffee Break

16:50 - 18:30: Session 3 (Room A)**: NaBIC 01**
Chair: Oscar Castillo

Abdelali Touil and Fattehallah Ghadi
Distributed Clustering Scheme to relieving Broadcast storms in Vehicular Ad-hoc Networks

Sana Khalfa, Nizar Rokbeni and Achref Telmoudi
PSO-VG for Job-Shop Scheduling with Multiple Operating Sequences Problem

Sonia Kefi, Nizar Rokbani and Adel Alimi
Impact of Ant Size on Ant Supervised by PSO, AS-PSO, Performances

Session 4 (Room A)**: HIS 04**

Anum Mehmood, Muhammad Usman Akram, Mahmood Akhtar and Anam Usman
Separation of Vertebrae Regions from Cervical Radiographs using Inter-Vertebra Distance and Orientation

Sumaiyya Farooq, Shoab Khan and Muhammad Usman Akram
1D Signal Processing for Improvement of People Counting Estimation Results

Sajid Gul Khawaja, Amna Tehreem, Muhammad Usman Akram and Shoab Khan
Multicore Framework for finding frequent item-sets using TDS

Hamdi Yahia, Chaabouni Ayman, Boubaker Houcine and Alimi Adel
Hybrid neural network and genetic algorithm for online off-lexicon Arabic Handwriting Recognition

Olfa Ben Said, Ali Wali and Adel M. Alimi
An Adapted Entity Summarization service for an enhancement video system

Marwa Ammar, Bouaziz Souhir, Adel Alimi and Ajith Abraham
Recurrent flexible neural tree model for time series prediction

Amira Hamdi, Nicolas Monmarché, Mohamed Slimane and Adel M Alimi
Intelligent hybrid algorithm for unsupervised data clustering problem

Day 2: November 22, 2016

8:30-9:30: Plenary Talk II: IoT analytics: from Big data to Fast and Smart Data
Layth Sliman, EFREI, France

09:30-10:00: Coffee Break

10:00-13:00: Session 4 (Room A): **HIS 05**
Chair: Ghita Mezzour

Mohammed Javed, P Nagabhushan and Bidyut Chaudhuri
Automatic Extraction of Text and Non-Text Information Directly from Compressed Document Images

Wedad Al-Sorori and Abdulqader Mohsen
Multi-Population Discrete Bat Algorithm with Crossover to Solve TSP

Hedi Cherif and Talel Ladhari
A new hybrid multi-criteria ABC inventory classification model based on Differential Evolution and Topsis

Nacer Heithem and Mazouzi Mohamed
A Scheduling Algorithm for Beacon Message in Vehicular Ad Hoc Networks

Bassem Hadjkacem, Walid Ayedi and Mohamed Abid
Multi-shot Human Re-identification via Gabor-LBP based Video Covariance Descriptor

Hachemi Nabil Dellys, Layth Sliman, Saliha Artabaz, Karima Benatchba and Mouloud Koudil
Chaff-Points Generation Using Knapsack problem resolution in Fingerprint Fuzzy Vault

Taher Labidi, Achraf Mtibaa, Walid Gaaloul and Faiez Gargouri
Toward Context-Aware SLA for Cloud Computing

Iman El Mir, Abdelkrim Haqiq and Dong Seong Kim
Performance Analysis and Security based on Intrusion Detection and Prevention Systems in Cloud Data Centers

Mahmoud Ltaief, Hala Bezine and Adel M. Alimi
A spiking neural network model with fuzzy learning rate Application for complex handwriting movements generation

Sonia Kefi, Nizar Rokbani and Adel M. Alimi
Solving the Traveling Salesman Problem using Ant Colony Metaheuristic, a Review

Fatma Mallouli and Mohamed Abid
Iris Localization Using Mixture of Probability Distributions in the Segmentation Process

13:00 – 14:30: Lunch

14:30 – 16: 30: Session 5 (Room A): HIS 06
Chair: Layth Sliman

Nesrine Atitallah, Kais Loukil, Hela Hakim, Abdulfattah Obeid and Mohamed Abid
Adaptive WSNs Based on HW/SW Implementation of Selective Relaying Communication Technique

Hedi Cherif and Talel Ladhari
Multiple criteria inventory classification approach based on Differential Evolution and Electre III

Kolawole John Adebayo, Luigi Di Caro and Guido Boella
Text Segmentation with Topic Modeling and Entity Coherence

Hicham Ben Alla, Said Ben Alla, Abdellah Ezzati and Abdellah Touhafi
An Efficient Dynamic Priority-Queue Algorithm based on AHP and PSO for Task Scheduling in Cloud Computing

Fethi Fkih and Mohamed Nazih Omri
Hybridization of an Index Based on Concept Lattice with a Terminology Extraction Model for Semantic Information Retrieval Guided by WordNet

Olfa Chebbi, Ezzeddine Fatnassi and Hadhami Kaabi
On integrating simulated annealing within parallel genetic algorithm: An on-demand transportation case application

Amira Ben Rabeh
Diagnosis of Alzheimer disease From MRI Images of the Brain Throughout Time

Alaeddine Dronga, Lobna Hsairi and Khaled Ghedira
Integration of game theory in R²-IBN framework for conflict resolution in a Multi-agents model of an extended enterprise

16:30 – 17:30: Coffee Break and Poster Session

Session: Poster Papers – HIS - NaBIC

Ramzi Zouari, Houcine Boubaker and Monji Kherallah
Hybrid TDNN-SVM algorithm for Online Arabic Handwriting Recognition

Asma Baghdadi, Yassine Aribi and Adel M. Alimi
A survey of methods and performances for EEG-based Emotion Recognition

Wassila Jerbi, Afef Ben Brahim and Nadia Essoussi
A Hybrid Embedded-Filter Method For Improving Feature Selection Stability Of Random Forests

Wedad Al-Sorori and Abdulqader Mohsen
Multi-Population Discrete Bat Algorithm with Crossover to Solve TSP

Sumaiyya Farooq, Shoab Khan and Muhammad Usman Akram
1D Signal Processing for Improvement of People Counting Estimation Results

Marouane Birjali, Abderrahim Beni-Hssane and Mohammed Erritali
A method proposed for estimating Depressed feeling tendencies of Social Media users utilizing their Data

Lin Wang, Bo Yang and Zhenxiang Chen
Improving Particle Swarm Optimization using Co-optimization of Particles and Acceleration Constants

Meera Ramadas, Ajtth Abraham and Sushil Kumar
Using data clustering on ssFPA/DE- a search strategy Flower Pollination Algorithm with Differential Evolution

Satrya Fajri Pratama, Azah Kamilah Muda, Yun-Huoy Choo and Ajith Abraham
3D Geometric Moment Invariants for ATS Drugs Identification: A More Precise Approximation

17:30: 17:45: Closing Ceremony