15th International Conference on Intelligent Systems Design and Applications (*ISDA15*)

5th World Congress on Information and Communication Technologies (*WICT15*)

11th International Conference on Information Assurance and Security (*IAS15*)

::: Marrakesh, Morocco December 14-16, 2015 :::

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www.mirlabs.org/wict15/
www.mirlabs.org/ias15/
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Web Administrator
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<td>Opening</td>
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<td>Keynote I (Mohamed Essaaidi)</td>
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<td>11:00 - 12:30</td>
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<td>Awards &amp; Closing Session</td>
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<td>Keynote II (Aawatif Hayar)</td>
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<td>Coffee break</td>
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<td>4:50 - 5:30</td>
<td>Keynote III (Ghita Mezzour)</td>
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**Day 1 (14 December 2015)**

- **ISDA**
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- **IAS**
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**Day 3 (16 December 2015)**

- **WICT**
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**Keynotes**

- Keynote I (Mohamed Essaaidi, Morocco)
- Keynote II (Awwatif Hayar, Morocco)
- Keynote III (Ghita Mezzour, Morocco)
- Keynote IV (Abdel Belaid, France)
- Keynote V (Michel Voll, France)
- Keynote VI (Layth Sliman, France)
- Keynote VII (Thierry Moniquet, France)
**Plenary Talk I**

**Time:** 10:00am – 11:00am  
**Location:** room 1  
**Chairs:** Pr. Ajith Abraham, Machine Intelligence Research Labs (MIR Labs), Washington, USA  
Pr. Aawatif Hayar, Hassan II University, Casablanca, Morocco

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**Smart Cities Technologies, Opportunities and Challenges**

**Pr. Mohamed Essaaidi**  
IEEE Senior Member, Director of ENSIAS  
Mohammed V University, Rabat, Morocco

**Biography**

Mohamed Essaaidi is Prof. Dr. IEEE Senior Member. He has been the Dean of National College of Information Technology (ENSIAS) of Mohammed 5th University, Rabat, Morocco since December 2011 and he was a Professor of Electrical & Computer Engineering at Abdelmalek Essaadi University, Morocco from 1993 till 2011. He is the founder and Chairman of the IEEE Morocco Section, founder of IEEE Computer & Communication Societies Joint Morocco Chapter, Founder and Chair of IEEE Antennas and Propagation Society and Microwave Theory and Techniques Society Morocco Joint Chapter and founder of IEEE Education Society Morocco Chapter. He has been also the founding Director of the Morocco Office of Arab Science and Technology Foundation, ASTF (2006-2009) and the Coordinator of ASTF RD&I Network of Electro-Technology since 2006. He has also founded several IEEE Student Branches in different Moroccan universities and engineering schools. He has authored and co-authored 5 books and more than 120 papers in international refereed journals and conferences in the field of Electrical, Information and Communication Technologies. He has been the Editor-in-Chief of International Journal on Information and Communication Technologies, Serial Publications, India since 2007. He is also an active member of the editorial boards of several IEEE and other indexed international journals in the field of information and communication technologies. Prof. Essaaidi is the founder and the General Chair of the Mediterranean Microwave Symposium since the year 2000, he was the General Chair of Information and Communication Technologies International Symposium in 2005 and 2007, the International Conference on Multimedia Systems and Computing in 2009, 2011 and 2012 and the International Conference on Complex Systems in 2012. He has also been involved in the Organizing and Scientific Committees of several other international conferences held worldwide.
ISDA - Oral Session 1
Time: 11:30am – 01:30pm
Location: room 1
Chairs: Pr. Khalid Zine-Dine, Faculty of Sciences, Chouaib Doukali University, El Jadida, Morocco
Pr. Driss El Ouadghiri, Faculty of Sciences, Moulay Ismail University, Meknès, Morocco

#17  Online Arabic Writer Identification based on Beta-Elliptic Model
Thameur Dhieb, Wael Ouarda, Houcine Boubaker, Mohamed Ben Halima and Adel Alimi
REGIM-Lab.: Research Groups in Intelligent Machines University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia

#14  Word-Based Arabic Handwritten Recognition Using SVM Classifier with a Reject Option
Bouchra El Qacimy, Mounir Ait Kerroum and Ahmed Hammouch
Laboratory LARGE, ENSET of Rabat, Mohamed V University Rabat, Morocco;
Laboratory LARIT, Ibn Tufail University, Faculty of Science, ENCG of Kenitra, Kenitra, Morocco

#19  Arabic handwritten text line extraction using connected component analysis : from a multi agent perspective
Youssef Boulid, Abdelghani Souhar and Mohamed Youssfi Elkettani
Department of Mathematics, Faculty of Sciences University Ibn Tofig Kenitra, Morocco

#126 Recognizing Arabic Handwritten Script using Support Vector Machine classifier
Mohamed Elleuch, Houssem Lahiani and Monji Kherallah
National School of Computer Science (ENSI), University of Manouba, Tunisia
Advanced Technologies for Medicine and Signals (ATMS), University of Sfax, Tunisia
National School of Electronics and Telecommunications, University of Sfax, Sfax, Tunisia
Faculty of Sciences, University of Sfax, Tunisia

#61  Scene Text Detection Images With Pyramid Image and MSER Enhanced
Houssem Turki, Mohamed Ben Halima and Adel Alimi
REGIM-Lab.: “REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia”

#84  Pre-processing and Extraction of the ROIs steps for Palmprints Recognition System
Mokni Raouia, Zouari Ramzi and Kherallah Monji
Faculty of Economics and Management of Sfax, Road Aéroport Km 4, 3018 Sfax, Tunisia, University of Sfax.

ISDA - Oral Session 2
Time: 11:30am – 01:30pm
Location: room 2
Chair: Pr. Mohamed Essaaidi, Mohammed V University, Rabat, Morocco

#24  A New Motion Estimation Techniques for Video Coding
Mahmoud Ahmadi, Ahlem Walha, Ali Wali and Adel Alimi
REGIM-Lab.: Research Groups in Intelligent Machines ENIS, University of Sfax BP 1173, Sfax 3038, Tunisia

#80  Object Detection and Identification for Blind People in Video Scene
Hanen Jabnoun, Faouzi Benzarti and Hamid Amiri
LR-11-ES17 Signal, Images et Technologies de l’Information (LR-SITI-ENIT), Université de Tunis El Manar, École Nationale d’Ingénieur de Tunis, 1002, Tunis Le Belvédère, Tunisie

#138 A spatio-temporal covariance descriptor for person re-identification
Hadj Kacem Bassem, Ayedi Walid, Abid Mohamed and Snoussi Hichem
CES Research Laboratory, National Engineering School of Sfax, University of Sfax, Sfax, Tunisia
LM2S Research Unit, Charles Delaunay Institute, University of Technology of Troyes, Troyes, France
Real-time parallel implementation of road traffic radar video processing algorithms on a parallel architecture based on DSP and ARM processors
Abdessamad Klilou, Lhoussein Mabrouk, François Bourzeix, Omar Bourja, Yahya Zennayi and Said Belkouch
Embedded System Department Moroccan Foundation for Advanced Sciences, Innovation and Research-MASCIR, Rabat, Morocco
University of Cadi Ayyad, Marrakech, Morocco

A semiotic semi-automatic annotation for movie audiovisual document
Manel Fourati, Abir Chaari, Anis Jedidi and Faiez Gargouri
Laboratory MIR@CL, University of Sfax, Sfax, Tunisia

Interlinking Video programs with Linked Open Data
Olfa Ben Said, Ali Wali and Adel Alimi
REGIM-Lab.: Research Groups in Intelligent Machines ENIS, University of Sfax BP 1173, Sfax 3038, Tunisia

Controlled Automatic Query Expansion Based on a New Method Arised in Machine Learning for Detection of Semantic Relationships Between Terms
Nesrine Ksentini, Mohamed Tmar and Faiez Gargouri
MIRACL Laboratory University of Sfax Sfax,

Heuristic approaches to Double Vehicle Routing Problem with Multiple Stacks
Ulisses E. F. Da Silveira, Marcelo P. L. Benedito and André G. Santos
Departamento de Informática, Universidade Federal de Viçosa, Viçosa, Minas Gerais, Brazil

A parallel heuristic for the travel planning problem
Breno A. Beirigo and André G. Santos
Departamento de Informática, UFV – Universidade Federal de Viçosa, Viçosa - MG, Brazil

A distributed guided genetic algorithm to solve the disturbance in the multimodal transport
Najet Medssia and Khaled Ghedira
SOIE, University of Tunis Management Higher Institute,41, Rue de la liberte, Cite Bouchoucha Le Bardo2000, Tunisie

ONDAR : An Ontology for Home Automation
Achraf Lyazidi and Salma Mouline
LRIT - CNRST URAC29, Mohammed V University - Rabat4, Avenue Ibn Battouta, B.P. 1014 RP, Rabat, Morocco

Towards type-2 Fuzzy Rule Base System for road choice
Mariam Zouari, Sahar Cherif, Habib M. Kammoun, Hela Lajmi and Adel Alimi
REGIM-Lab: Research Groups in Intelligent Machines, University of Sfax, National Engineering School of Sfax (ENIS), BP 1173, Sfax, 3038, Tunisia
IAS - Oral Session 1
Time: 11:30am – 01:30pm
Location: room 4
Chairs: Pr. Abdelkrim Haqiq, Hassan 1st University, Settat, Morocco
        Pr. Ghita Mezzour, International University of Rabat, Morocco

#13 Mining Intrusion Detection Alerts for Predicting Severity of Detected Attacks.
Doaa Hassan
National Telecommunication Institute, Egypt.

#15 Toward a Novel Rule-based Attack Description and Response Language.
Samih Souissi
Télécom ParisTech, France.

#31 Security Modeling and Analysis of a Self-Cleansing Intrusion Tolerance Technique.
Iman El Mir, Dong Seong Kim and Abdelkrim Haqiq
FST, Hassan 1st University, Settat, Morocco; University of Canterbury, New Zealand

#32 Network Intrusion Detection System Using L1-norm PCA.
Khalid Chougdali, Zyad Elkhadir and Mohammed Benattou
National School of Applied Sciences (ENSA); RLCST Research Laboratory, Ibn Tofail University, Morocco.

#33 New malware detection framework based on N-grams and Support Vector Domain Description.
Mohamed El Boujnouni, Mohammed Jedra and Noureddine Zahid
Mohammed V – University, Faculty of Sciences, Laboratory of Conception and Systems Avenue Ibn Battouta B.P 1014, Rabat, Morocco

#40 Towards Better Attack Path Visualizations Through Normalizing Host and Network IDS Alerts.
Amir Azodi

WICT - Oral Session 1
Time: 11:30am – 01:30pm
Location: room 5
Chairs: Pr. Emilio Corchado, Universidad de Salamanca, Spain
        Pr. Hichem Karray, Regim-LAB, University of Sfax, Tunisia

#5 Forming the Multi-Modal Situation Context in Ambient Intelligence Systems on the Basis of Self-Organizing Cognitive Architectures
Peter Ivanov, Zalimkhan Nagoev, Inna Pshenokova and Dana Tokmakova

#29 Multiagent system for urban traffic regulation mesuring
Abdallah Lakhouri, El Hassan EssoufiaandHicham Medromi

#30 A new Hybrid Discrete Bat Algorithm for Traveling Salesman Problem using ordered crossover and 3-Opt operators for bat’s local search
Marek Žák, Jaroslav Rozman and František V. Zbořil
Faculty of Information Technology Brno University of Technology Brno 612 66, Czech Republic

#53 Cognitive Behavioural Therapy embedding smoking cessation program using smartphone Technologies
Abdullah Alsharif and Nada Philip
#54  A Comparative Study of four Metaheuristics Applied for solving the Flow-shop Scheduling Algorithms
Abdelhamid Bouzidi, Mohammed Essaid Riffi and Mohammed Barkatou

#58  Perspectives on the implementation of standardization within the UK library RFID market
Ian Prattnand Shiyun Zhong

#60  Big Data: Measuring How Information Technology Can Improve the Economic Growth and Better Life
Soumaya Nouinou, Rindra M. Razafimampianina, Boubker Regragui and Abdelaziz S. Doukkali

ISDA - Oral Session 4
Time: 03:00pm – 04:20pm
Location: room 1
Chair: Pr. Noureddine Idboufker, ENSA, Cadi Ayyad University, Marrakesh, Morocco

#37  Improved recurrent neural network architecture for SVM learning
Rahma Fourati, Chawki Aouiti and Adel Alimi
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, Sfax, Tunisia

#145  A hybrid system based on GMM-SVM for Speaker Identification
Rania Chakroun, Leila Belaïfa Zouari, Mondher Frikha and Ahmed Ben Hamida
Advanced Technologies for Medicine and Signals (ATMS) Research Unit National School of Electronics and Telecommunications of Sfax, National School of Engineering of Sousse, Sousse, Tunisia

#25  Determination of an Optimal Feature Selection Method Based on Maximum Shapley Value
Fatiha Mokdad, Djamel Bouchaffra, Nabil Zerrouki and Azzeddine Touaz
Center for Development of Advanced Technologies, Design and Implementation of Intelligent Machines Laboratory, Algeria; University of Science and Technology Houari Boumediene, Algeria

#34  Overview of Bio-Inspired Control Mechanisms for Hexapod Robot
Marek Žák, Jaroslav Rozman and František V. Zbořil
Faculty of Information Technology Brno University of Technology Brno 612 66, Czech Republic

ISDA - Oral Session 5
Time: 03:00pm – 04:20pm
Location: room 2
Chair: Pr. Chokri Ben Amar, Regim-LAB, University of Sfax, Tunisia

#43  A Deep Convolutional Neural Wavelet to supervised Arabic letter image classification
Salima Hassairi, Ridha Ejbal and Mourad Zaied
REGIM-Lab: REsearch Groups in Intelligent Machines, University of Sfax, National Engineering School of Sfax (ENIS), BP 1173, Sfax, 3038, Tunisia
#40  Hand verification system based on multi-features fusion  
Nesrine Charfi, Hanene Trichili, Basel Solaiman and Adel Alimi  
Department of Image and Information Processing (ITI), Telecom-Bretagne (ENST) Brest, France  
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia

#46  ANOFS: Automated Negotiation based Online Feature Selection Method  
Fatma Ben Said and Adel M. Alimi  
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia

#73  Exponential synchronization of high-order recurrent neural networks with mixed delays  
Hajer Brahmi, Boudour Ammar, Farouk Chérif and Adel Alimi  
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia  
Laboratory of Math Physics, Ecole Superieure des Sciences et de Technologie de Sousse, Tunisia

ISDA - Oral Session 6  
Time: 03:00pm – 04:20pm  
Location: room 3  
Chair: Pr. Abir Hadriche, Regim-LAB, University of Gabes, Tunisia

#41  A static hand gesture recognition system for real time mobile device monitoring  
Hanene Elleuch, Ali Wali and Adel Alimi  
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia

#86  Model Driven Reverse Engineering: Graph Modeling For Mobiles Platforms  
Khalid Lamhaddab and Khalid Elbaamrani  
TIM Laboratory, ENSA, Cadi Ayyad University, Marrakech, Morocco

#52  Facial emotions recognition based on wavelet network  
Mounira Hmayda, Ridha Ejbali and Mourad Zaied  
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia  
Polytech Tours, University of Tours, France

#143  Structured Fisher Vector encoding method for Human Action Recognition  
Manel Sekma, Mahmoud Mejdoub and Chokri Ben Amar  
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia  
Department of computer science, College of AlGhat, P.O.BOX 445, 11914, Majmaah university, Al Majmaah, Riyadh Kingdom of Saudi Arabia
IAS - Oral Session 2
Time: 03:00pm – 04:20pm
Location: room 4
Chairs: Pr. Nizar Rokbani, Regim-LAB, University of Sousse, Tunisia
Pr. Hajar Mousannif, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakesh, Morocco

#12 Introduction to The Internet Of Things Security : standardization and research challenges
Salim Elbouanani, Ahmed El Kiram and Omar Achbarou
Cadi Ayyad University, Morocco.

#17 Modeling a Secure Cloud Data Warehouse with SoaAML
Emna Guermazi, Mounir Ben Ayed and Hanane Ben-Abdallah
Cadi Ayyad University, Morocco.

#19 Digital Safe: Secure synchronization of shared files
Mayssa Jemel, Mounira Msahli and Ahmed Serhrouchni
Telecom ParisTech, France.

#20 Public Auditing for Secure Data Storage in Cloud through a Third Party Auditor Using Modern Ciphertext
Zaid Alaa Hussien, Hai Jin, Zaid Ameen Abduljabbar, Ali A. Yassin, Mohammed Abdulridha Hussain, Salah H. Abbdal and Deqing Zou
University of Basrah, Iraq; Huazhong University of Science and Technology, China.

#25 MASAT: Model-based Automated Security Assessment Tool for Cloud Computing
Oussama Mjihil, Dong Seong Kim and Abdelkrim Haqiq
FST, Hassan 1st University, Morocco; University of Canterbury, New Zealand

WICT - Oral Session 2
Time: 03:00pm – 04:20pm
Location: room 5
Chair: Pr. Ilhem Kallel, Regim-LAB, University of Sfax, Tunisia

#15 Android: Deep look into Dalvik VM
Er-Rajy Latifa and El Kiram My Ahmed

#23 Improvement of Location Aided Routing Protocol for Vehicular Ad Hoc Networks in Highway Scenario
Mohamed Nabil, Abdelmajid Hajami and Abdelkrim Haqiq

#24 Fairness and differentiation of services in wireless mesh network
S.Jounaidi, B.Nasserreddine, Y.Saadi, A.Haqiq

#27 Actor Network Theory As A Collaborative Mode: The Contribution Of Game Theory In The Interessement Phase
Mohammed Salim Benqatla, Chikhaoui Dikra, Bouchaib Bounabat
ISDA - Oral Session 7
Time: 04:50pm – 06:10pm
Location: room 1
Chair: Pr. Ali Wali, Regim-LAB, University of Sfax, Tunisia

#42 Bag Of Face Recognition Systems Based on Holistic Approaches
Wael Ouarda, Hanen Tricheli and Adel M. Alimi
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, National School of Engineers (ENIS), BP 1173, Sfax, 3038, Tunisia
Telecom Bretagne Institute, Brest Iroise Technopole, 29238 Brest Cedex France

#150 A Measurement-Based Technique for Incipient Anomaly Detection
Fouzi Harrou and Ying Sun
CEMSE Division, King Abdullah University of Science and Technology, Saudi Arabia

#156 Enhanced Monitoring of Abnormal Emergency Department Demands
Fouzi Harrou, Ying Sun and Farid Kadri
CEMSE Division, King Abdullah University of Science and Technology, Thuwal 23955-6900, Saudi Arabia
PIMM Laboratory, UMR CNRS 800, Arts et Métiers ParisTech, Paris, France,

#11 Speech Emotion Recognition Based on Arabic Features
Mohamed Meddeb, Hichem Karray and Adel Alimi
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, National School of Engineers (ENIS), BP 1173, Sfax, 3038, Tunisia

ISDA - Oral Session 8
Time: 04:50pm – 06:10pm
Location: room 2
Chair: Pr. Mohamed Ben Halima, Regim-LAB, University of Sfax, Tunisia

#75 Consolidating Product Spectrum and Gammatone Filterbank for Robust Speaker Verification under noisy conditions
Meriem Fedila, Messaoud Bengherabi and Abderrahmane Amrouche

#8 Possibilistic Network based Information Retrieval Model
Kamel Garrouch and Omri Mohamed Nazih
MARS Research Unit Faculty of Science of Monastir University of Monastir, Tunisia

#13 SAID : A new Stemmer Algorithm to Indexing Unstructured Document
Kabil Boukhari and Mohamed Nazih Omri
MARS Research Unit Faculty of Science of Monastir University of Monastir, Tunisia

#120 An Architecture of Distributed Beta Wavelet Networks for large image classification in MapReduce
Sakkari Mohamed and Zaied Mourad
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS,BP 1173, Sfax, 3038, Tunisia
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<td>Audiovisual Video Characterization using Audio Watermarking Scheme</td>
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<td>REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS,BP 1173, Sfax, 3038, Tunisia</td>
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<td>Faten Chaabane, Maha Charfeddine and Chokri Ben Amar</td>
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<td>A Dynamic Threshold-based Probabilistic Scheme for Broadcasting in MANETs</td>
<td>Mohammed Chekhar, Khalid Zine-Dine, Mohamed Bakhouya and Abdessadek Aaroud</td>
<td>Dept. of computer science, Chouaib Doukkali University El Jadida, Morocco International University of Rabat, Parc Technopolis 11 100 Sala el Jadida, Morocco</td>
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<td>A speech recognition system using fast learning algorithm and beta wavelet network</td>
<td>Ridha Ejbali, Olfa Jemai, Mourad Zaied and Chorki Ben Amar</td>
<td>REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS,BP 1173, Sfax, 3038, Tunisia</td>
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<td>Personal Recognition System using Hand Modality based on Local Features</td>
<td>Nesrine Charfi, Hanene Trichili, Adel M. Alimi and Basel Solaiman</td>
<td>ENIS, Tunisia ; ISBS, Tunisia ; ENST Bretagne, France.</td>
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<td>16</td>
<td>Improved secure navigation of wheelchairs using multi-robot system and cloud computing technologies</td>
<td>Khaled Salhi, Mohamed Moncef Ben Khelifa, Adel Alimi and Philippe Gorce</td>
<td>Regim-Lab, University of Sfax, Tunisia; Handi-Bio, France.</td>
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<td>EMV Card Evaluation based on Neural Network</td>
<td>Ouerdi Noura, Elfarissi Ilhame, Azizi Mostafa and Azizi Abdelmalek</td>
<td>Mohammed FirstUniversity, Morocco.</td>
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<td>Image de-noising of a metal matrix composite microstructure Using Surelet wavelet and Weighted Bilateral Filter</td>
<td>Ayari Fatma and Ben Amar Chokri</td>
<td>Regim-lab, ENIS, Tunisia.</td>
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<td>Image processing of a metal matrix composite microstructure Using recent bilateral filtering approaches</td>
<td>Ayari Fatma and Ben Amar Chokri</td>
<td>Regim-lab, ENIS, Tunisia.</td>
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</table>
WICT - Oral Session 3
Time: 04:50pm – 06:10pm
Location: room 5
Chair: Pr. Hichem Karray, Regim-LAB, University of Sfax, Tunisia

#9  Impact of integrating WebRTC in universities e-learning platforms
Samuel Ouya, Khalifa Sylla, Pape Mamadou Djidiack Faye, Mouhamadou Yaya Sow and Claude Lishou

#11  Toward a Multi-tenant College Sustained Team Seeking System
Shuwei Yao, Kun Ma, Yang Zhe and Ajith Abraham

#13  Proposal of a collaborative software development platform for the virtual universities: the Virtual University of the Senegal (UVS) experience
Samuel Ouya, Kokou Gaglo, Gervais Mendy, Ahmath Bamba Mbacké and Claude Lishou

#20  WebRTC platform proposition as a support to the educational system of universities in a limited Internet connection context
Samuel Ouya, Cheikhane Seyed, Ahmath Bamba Mbacké, Gervais Mendy and Ibrahima Niang
ISDA - Oral Session 10
Time: 09:00am – 10:00am
Location: room 1
Chair: Pr. Adel M. ALIMI, Regim-LAB, University of Sfax, Tunisia

#133  Real Time Hand Gesture Recognition System for Android Devices
Houssem Lahiani, Mohamed Elleuch and Monji Kheralla
National School of Electronics and Telecommunications, University of Sfax, Sfax, Tunisia
National School of Computer Science (ENSI), University of Manouba, Manouba, Tunisia
Faculty of Sciences, University of Sfax, Sfax, Tunisia

#91  An efficient algorithm for data security in cloud storage
Azougaghe Ali
SIME, Mohammed V University, ENSIAS Rabat, Morocco
LRIT, Mohammed V University, Faculty of Sciences Rabat, Morocco

#1  A framework for an effective cybersecurity strategy implementation: Fundamental pillars identification
Hasna Elkhannoubi and Mustapha Belaissaoui
University Hassan I, ENCG, Laboratory SIAD, Settat - Morocco

ISDA - Oral Session 11
Time: 09:00am – 10:00am
Location: room 2
Chairs: Pr. Abdelkrim Haqiq, Hassan 1st University, Settat, Morocco
Pr. Driss El Ouadghiri, Faculty of Sciences, Moulay Ismail University, Meknès, Morocco

#57  Data fusion architectures: A survey and comparison
Siwar Ben Ayed, Hanene Trichili and Adel M. Alimi
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS,BP 1173, Sfax, 3038, Tunisia

#2  Make or Buy decision making for telcos Towards an “Intelligent Transaction Cost Economics (TCE) Support System”
Mounir Boukadidi
CEDOC Technologies d’Information et Management d’Entreprise (TIME), ENSIAS, Rabat, Morocco

#152  Decode and Forward Relaying ARQ: Performance Analysis and Power Optimization
Ali Kamouch, Abdelaali Chaoub and Zouhair Guennoun
Laboratory of Electronic and Communication, Mohammedia School of Engineers, Mohammed V-Agdal University, Rabat, Morocco
Dept of Telecommunication, National Institute of Posts and Telecommunications, Rabat, Morocco

ISDA - Oral Session 12
Time: 09:00am – 10:00am
Location: room 3
Chair: Pr. Ilhem Kallel, Regim-LAB, University of Sfax, Tunisia

#60  Wavelet Networks for Facial Emotion Recognition
Salwa Said, Olfa Jemai and Mourad Zaied
REGIM-Lab.: REsearch Groups in Intelligent Machines, Univ. of Sfax, ENIS, Tunisia
Tuesday 15 December 2015

#52 Facial emotions recognition based on wavelet network
Mounira Hmayda, Ridha Ejbali and Mourad Zaied
*Higher Institute of Computer and Multimedia of Gabes, Erriadh City campus, 6075 Zrig - Gabes, Tunisia*

#31 Vigilance Measurement System Through Analysis of Visual and Emotional Driver’s Signs Using Wavelet Networks
Ines Teyeb, Olfa Jemai, Mourad Zaied and Chokri Ben Amar
*REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia*

IAS - Oral Session 3
Time: 09:00am – 10:00am
Location: room 4
**Chair**: Pr. Ali Wali, Regim-LAB, University of Sfax, Tunisia

#8 An Efficient Scheme for Anonymous Communication in IoT
Sara Jebri, Mohamed Abid and Ammar Bouallegue
*iResCoMath Unit, National Engineering School of Gabes University of Gabes, Tunisia. National Engineering School of Tunis University of Tunis El Manar Tunis, Tunisia.*

#11 Access Control Policies Enforcement in a Cloud Environment: Openstack
Meryeme Ayache, Mohammed Erradi and Bernd Freisleben
*ENSIAS, Morocco; University of Marburg, Germany.*

#23 Experimental study of continuous variable quantum key distribution
Nedra Benletaief, Houria Rezig and Ammar Bouallegue
*Ensias, Morocco ; University Mohamed V, Faculty of Sciences Rabat, Morocco.*

#34 Access Control in a Collaborative Session in Multi Tenant Environment
Mohamed Amine Madani, Mohammed Erradi and Yahya Benkaouz
*ENSIAS, Mohammed V University of Rabat, ENSIAS, Morocco.*

WICT- Oral Session 3
Time: 09:00am – 10:00am
Location: room 5
**Chair**: Pr. Mohamed Ben Halima, Regim-LAB, University of Sfax, Tunisia

#3 Model-To-Model transformation in approach by modeling: From UML model to Model-View-Presenter and Dependency Injection patterns
Redouane Esbai and Mohammed Erramdani

#14 Using Cloud SaaS to ensure communication in heterogeneous Cloud based environment
Majda ElhozmariandAhmed Ettalbi

#38 A preliminary study on indicator framework for enterprise, based on COBIT 5 processes and SOA approach
Rindra M. Razafimampianina, Soumaya Nouisou, Abdelaziz S. Doukkali and Boubker Reigragui

#52 Optimization the queries execution plan in cloud data warehouses
Ettaoufik Abdelaziz and Ouzzif Mohammed
Frugal Social Sustainable Smart City for Casablanca

Aawatif Hayar

Hassan II University, Casablanca, Morocco

Biography

Prof. Aawatif HAYAR received the “Agrégation Génie Electrique” from Ecole Normale Supérieure de Cachan in 1992. She received the “Diplôme d’Etudes Approfondies” in Signal processing Image and Communications and the degree of Engineer in Communications Systems and Networks from ENSEEIHT de Toulouse in 1997. She received with honors the Ph.D. degree in Signal Processing and Communications from Institut National Polytechnique de Toulouse in 2001. She was research and teaching associate at EURECOM’s Mobile Communication Department from 2001 to 2010. Aawatif Hayar is currently with GREENTIC R&D Organization (Morocco) as General Secretary and expert in cognitive green ICT field. She has also joined in 2011 the engineering school ENSEM at the University Hassan II Casablanca in Morocco. Aawatif Hayar is also member of Casablanca “Avant-garde” City think-tank. Her research interests includes fields such as cognitive green communications systems, UWB systems, smart grids, smart cities, ICT for eco-friendly smart socio-economic development. Aawatif Hayar was a Guest Editor of Elsevier Phycom Journal Special issue on Cognitive Radio Algorithms and System Design in 2009 and General Co-chair of Crowncom2010 (France) dedicated to cognitive radio systems and IW2GN2011 (Morocco) dedicated to wireless green systems. She was co-organiser of GDR-ISIS Cognitive Radio workshop in France in 2011. Aawatif Hayar was also General co-chair of ICT 2013 Conference (Morocco). She is also expert at the European commission level for cognitive and UWB systems. Aawatif Hayar received with one of her PhD students the "best student paper" award at CogArt2010 and has a patent in cognitive radio field on “Process for sensing vacant bands over the spectrum bandwidth and apparatus for performing the same based on sub space and distributions analysis”.

Abstract

Casablanca was recently selected, with Kansas City USA, by IEEE Smart City Initiative to engage as IEEE Core Smart Cities. The two cities were selected from more than 15 applicants as the cities that provided the most compelling evidence they are well positioned to utilize the resources offered through the IEEE Smart Cities Initiative and by demonstrating plans to invest human and financial capital into their project. The social frugal smart city concept we are adopting in Casablanca puts citizens at the center of the transformation process, creating a public-private-people partnership where citizens are actors in and builders of their smart city. It aims to reconcile citizens with their « City » and society making them feel that they count in « the city transformation process». It is a frugal approach based on the use of existing or new implemented infrastructure including mobiquitous devices, such as smartphones, to develop IT driven innovation cycle and e-services that track and answer citizens economic cultural, social and ecological needs. This participatory oriented social innovation approach will allow, step by step, to build a set of interconnected pilot projects and sites to set up gradually a sustainable smart city collaborative innovation ecosystem creating at the end a social sustainable economy which turns societal and economic challenges into a business opportunities.
A Socio-Technical Approach to International Cyber-Security

Ghita Mezzour

*International University of Rabat, Morocco*

**Biography**

Ghita Mezzour is an Assistant Professor at the International University of Rabat. She received her Ph.D. degree from Carnegie Mellon University (CMU) in the United States in May 2015. At CMU, she was part of both the School of Computer Science and the Electrical and Computer Engineering Department. Her research interests are at the intersection of cyber security, big data, and socio-technical systems. She holds a Master and a Bachelor in Communication Systems from the Ecole Polytechnique Fédérale de Lausanne in Switzerland.

**Abstract**

Studying international aspects of cyber security requires taking into account both technical and social dimensions. However, the majority of cyber security research has only focused on the technical dimension. In my work, I study international cyber-security using a sociotechnical approach that combines data science techniques, computational models, and network science techniques. I will start by presenting my work on empirically identifying factors behind international variation in cyber-attack exposure and hosting. I use data from 10 million computers worldwide provided by a key anti-virus vendor. The results of this work indicate that reducing attack exposure and hosting in the most affected countries requires addressing both social and technical issues such as corruption and computer piracy. Then, I will present a computational methodology to assess countries’ cyber warfare capabilities. The methodology captures political factors that motivate countries to develop these capabilities and technical factors that enable such development. Together, these projects show that bridging the social and technical dimensions of cyber security can improve our understanding of the dynamics of international cyber security and have a real-world impact.
ISDA - Oral Session 13
Time: 11:30am – 01:30pm
Location: room 1
Chair: Pr. Noureddine Idboufker, ENSA, Cadi Ayyad University, Marrakesh, Morocco

#53 Spider’s behavior for ant based clustering algorithm
Amira Hamdi, Nicolas Monmarché, Mohamed Slimane and Adel Alimi
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS,BP 1173, Sfax, 3038, Tunisia
Polytech Tours, University of Tours, France

#15 Fuzzy logic mobile robot velocity control for autonomous navigation
Emna Baklouti, Mohamed Jallouli and Nader Ben Amor
Ecole Nationale d'Ingénieur de Sfax ENIS - Universite de Sfax, Tunisie - Computer & Embedded Systems Laboratory (CES)

#76 Multi-agent systems and their application to control vehicle underwater
Miftah Ettibari, Sayouthi Adil and Medromi Hicham
The National Higher School of electricity and mechanics, Casablanca, Morocco
The School Royal Naval, the National Higher School of electricity and mechanics, Casablanca, Morocco

#81 A simulation-based Genetic Algorithm approach for refilling process with Clip Type Passive Manipulator
Honglei Che, Zongzhi Wu, Rongxue Kang, Chao Yun and Hui Jin
China Academy of Safety Science and Technology, Chao Yang District, Bei Jing, China.
State Administration of Work Safety of China, Dong Cheng District, Bei Jing, China
Robotics Institute, School of Mechanical Engineering & Automation, Beihang University, XueYuan RoadBei Jing, China

ISDA - Oral Session 14
Time: 11:30am – 01:30pm
Location: room 2
Chair: Pr. Adel M. Alimi, Regim-LAB, University of Sfax, Tunisia

#49 Quality of Services based routing using Evolutionary Algorithms for Wireless Sensor Network
Faten Hajjej, Ridha Ejbal and Mourad Zaied
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS,BP 1173, Sfax, 3038, Tunisia

#35 Power Aware Scheme for water pipeline monitoring based on Wireless Sensor Networks
Manel Elleuchi, Manel Boujelben, M. Obeid Abdul fattah, Mohammed S. BenSaleh and Mohamed Abid

CES research unit, National School of Engineers of Sfax Research Center in Informatics, Multimedia and Digital Data Processing (CETIC), Technopark Sfax, Tunisia Sfax, Tunisia;
National Center for Electronics, Communications and Photonics, King Abdulaziz City for Science and Technology, Riyadh, Kingdom of Saudi Arabia

#146 Energy Benefits of Opportunistic Device-Centric Wireless Networks

Baldomero Coll Perales and Javier Gozalvez
Ubiquitous Wireless Communications Research Laboratory (UWICORE, http://www.uwicore.umh.es/)
Universidad Miguel Hernandez de Elche (UMH), Avda. de la Universidad sn, 03202, Elche, Alicante, Spain

#56 A model Driven Approach to generate Graphical User Interfaces for Rich Internet Applications Using Interaction Flow Modeling Language

Sarra Roubi, Mohammed Erramdani and Samir Mbarki
MATSI Laboratory, Ecole Supérieure de Technologie Oujda, Morocco; Department of Computer Science, Ibn Tofail University Kenitra, Morocco

#124 Encryption as a service for securing data in mobile cloud computing

Mouhib Ibtihal, El Ouadghiri Moulay Driss and Zine-Dine Khalid
University Moulay Smail, Faculty of sciences, Meknes, Morocco, University Chouaib Doukkali Faculty of sciences El Jadida, Morocco

#27 Designing Energy Efficient Smart Buildings in Ubiquitous Environments

Imen Abdennadher, Nesrine Khabou, Ismael Bouassida Rodriguez and Mohamed Jmaiel
ReDCAD, University of Sfax, B.P. 1173, 3038 Sfax, Tunisia

CNRS, LAAS, 7 avenue du colonel Roche, F-31400 Toulouse, France
Univ de Toulouse, LAAS, F-31400 Toulouse, France
Research Center for Computer Science & Multimedia of Sfax Technopark of Sfax, B.P.275, Sakiet Ezzit, 3021 Sfax, Tunisia

ISDA - Oral Session 15
Time: 11:30am – 01:30pm
Location: room 3
Chair: Pr. Mohamed Ben Halima, Regim-LAB, University of Sfax, Tunisia

#96 MRI Brain Tumor Classification using Support Vector Machines and Meta-Heuristic Method

Ahmed Kharrat, Mohamed Ben Halima and Mounir Ben Ayed
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia

#82 Improving the stability of sequential forward variables selection

Silvia Cateni and Valentina Colla
TeCIP Institute Scuola Superiore Sant’ AnnaPisa, Italy

#148 Towards an intelligent evaluation method of medical data visualizations

Saber Amri, Hela Ltifi and Mounir Ben Ayed
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia
Faculty of sciences and techniques of Sidi Bouzid, University of Kairouan
Morphological extraction of cancerous nucleus in the diagnostics of breast cancer
Tiia Ikonen, Billy Braithwaite, Irene Pöllänen, Keijo Haataja, Pekka Toivanen, Teemu Tolonen and Jorma Isola
School of Computing, Kuopio campus University of Eastern Finland, P.O. Box 1627, FI-70211 Kuopio, Finland
Institute of Biomedical Technology, University of Tampere, Biokatu 8, FI-33520 Tampere, Finland

Literature Review: Home Health Care
Brahim Issaoui, Issam Zidi, Eric Marcon, Frederique Laforest and Khaled Ghedira
University of Tunis, Management Higher Institute, SOIE, Tunisia
University of Jean Monnet, LaHC, France
INSA Lyon, DISP, France

Noise Adaptive FCM algorithm for segmentation of MRI brain images using local and non-local spatial information
Nitesh Arora and Rajoo Pandey
National Institute of Technology, Kurukshetra

A Lightweight Privacy-Preserved Spatial and Temporal Aggregation of Energy Data
Sye Loong Keoh, Yi Han Ang and Zhaohui Tang
University of Glasgow, Singapore; Republic Polytechnic, Singapore.

Persistent Timeout Policy of SCTP associated with AODV by using Cross-Layer Mechanism
Issoufou Tiado Mahamadou, Idrissa Abdou and Djibo Karimou
Université Abdou Moumouni, Niger; Université de Tahoua, Niger.

Robust Image Document Authentication Code with Autonomous Biometric Key Generation, Selection, and Updating in Cloud Environment
Zaid Ameen Abduljabbar, Hai Jin, Zaid Alaa Hussien, Ali A. Yassin, Mohammed Abdulridha Hussain, Salah H. Abbdal and Deqing Zou
Huazhong University of Science and Technology, China; University of Basrah, Iraq.

Software-Defined Networks, Security Aspects Analysis
Jaouad Benabbou, Khalid Elbaamrani, Noureddine Idboufker and Raja Elassali
ENSA, Morocco.

Side channel analysis techniques towards a methodology for reverse engineering of JavaCard byte-code
Mohammed Amine Kasmi, Mostafa Azizi and Jean-Louis Lanet
ESTO, Morocco; INRIA, France.

An Incremental Refinement Approach to a Development of TMN Protocol
Sanae El Mimouni and Mohamed Bouhdadi
LMPHE laboratory, Faculty of Sciences, Mohammed V University, Morocco.
#41 An electronic voting system based on homomorphic encryption and prime numbers
Ali Azougaghe, Zaid Kartit, Mostafa Benmiloud Mustapha Hedabou, Mostafa Belkasmi and Mohamed El Marraki ENISIAS, Marroco.

WICT - Oral Session 5
Time: 11:30am – 01:30pm
Location: room 5
Chair: Pr. Ali Wali, Regim-LAB, University of Sfax, Tunisia

#18 A Quantification Model of Internal Control Impact on Banking Risks
Marie Ndaw

#32 Cloud Model based Group Privacy Preservation Mechanism for Dynamic Data-sets
Ruxiang Zhai, Kun Zhang and Mingjun Liu

#37 Interdependencies Modeling for the purpose of critical infrastructures protection
Lamiae Chtioui, Amine Baina and Mostafa Bellafkh

#39 Toward resilience management in critical information infrastructure
Yaou Hamida, Baina Amine, Bellafkh Mostafa

#40 Using EBIOS for risk management in critical information infrastructure
Wissam Abbass, Amine Baina and Mostafa Bellafkh

#43 Study of the credibility of the information shared by a wireless sensor network
Karim Lahma, Hamraoui Mohamed and Belhadoui Hicham

#45 Iterative Threshold Decoding of One Step Majority Logic Decodable Quasi-Cyclic Codes
Karim Rkizat, Mohammed Lahmer and Mostafa Belkasmi

#47 Tr-OrBAC: A Trust model for Collaborative Systems within Critical Infrastructures
Nawal Ait Aali, Amine Baina and Loubna Echabbi
Planary Talk IV
Time: 03:00pm – 04:00pm, Location: room 1
Chairs: Pr. Ghita Mezzour, International University of Rabat, Morocco

Generative-Discriminative Based Methods for Arabic Recognition

Abdel Belaïd
Univiersité de Lorraine, France

Biography
Abdel Belaïd received his Ph.D degree in Computer Science in 1979 and his D.Sc. in 1987 from the University Henri Poincaré Nancy I, France. After a few years as Assistant Professor, he joined the National Center for Scientific Research (CNRS) as a Research Scientist in 1984. In 2002, he became full Professor in Université de Lorraine and responsible of the Cognitive Science Master. He leads since 1992 a research group at the LORIA (http://read.loria.fr/) working on Document Analysis and Text Recognition. His areas of research include Image Processing, Pattern Recognition, Document Analysis and Handwriting Recognition where he has authored over 150 articles which have been published in international journals and conferences. He is the co-author of a book, Pattern Recognition: Methods and Applications, and of many book chapters. He has developed retro-conversion techniques for document structure recognition using multi-agent systems, reasoning based cases, emergent architectures and part of speech tagging. For text printed, he developed several systems based on Neural classifiers and a on a combination of OCR and ICR techniques. He developed handwriting recognition systems based on stochastic modeling, for linear and bi-dimensional representations. Abdel Belaïd has a wide national and international visibility as he acts in several program committees and editorial boards such as International Journal on Document Analysis and Recognition, Pattern Recognition, Pattern Recognition Letters, IEEE PAMI, ICDAR where he is PC co-chair, etc. He has several collaborations with several universities and high schools (IUF Fribourg – Switzerland, ENIT, ESSTT – Tunisia, PUC in Brasil, ISI – Calcutta India, ETS – Montréal), and industrial companies (Xerox France, ITESFOT, A2iA, BergerLevrault, Jouve, La Poste, Universalis, etc.) with whom he developed several systems. He belongs to several scientific committees.

Abstract
The recognition of handwriting by computer remains a challenging task. Despite the impressive progress achieved during the last few decades and the increasing power of the computers, the performances of the automatic systems remains still far from the human capabilities. In this talk, we describe our experience combining two different paradigms in machine learning: generative and discriminative learning for the effective recognition of Arabic handwriting. Two main examples were considered to illustrate the feasibility of these approaches on writing recognition. In generative methods, starting with Hidden Markov Models (HMM) with order 1 and 2, we progressively extended HMM to the plane by proposing a planar-HMM. Faced to their dimensionality limit, we experimented Dynamic Bayesian Networks. Then, to combine the advantages of the dimensionality and the temporality of the models, we proposed a new approach which integrates causal Markov Random Field in two dimensional modeling and HMMs. The word image is viewed as a random field realization which at its turn is considered to be an observation sequence of pixel columns. We then showed different applications of this model, first for analytical recognition, second for syntactic analysis by incorporating structural information as implant. In discriminative methods, Neural Networks were the basis of the research. Based on a cognitive model, we proposed a transparent neural network where the learning is replaced by an activation process considering the nodes neighborhood. This model was extended for the recognition of decomposable words in large vocabulary context.
Planary Talk V
Time: 03:00pm – 04:00pm
Location: room 2
Chairs: Pr. Adel M. Alimi, Regim-LAB, University of Sfax, Tunisia
Pr. Thierry Moniquet, Consulting International Strategy, Morocco

Informatization and Iconomy
Michel Volle
Institute of Iconomy, France

Biography
Michel Volle (born 1940 in Bergerac) is a French economic theorist, writer, public speaker, political advisor, and activist. Volle's main interest is about the articulation between mind and action. Being interested in the social/economical phenomenon of computerization, he studied intensively technological changes, and particularly, the informatization revolution, and their impact on society and the economy. Volle graduated from Ecole Polytechnique (1960), and ENSAE (1965). He is doctor in Economic History (1980). Administrator in the INSEE, M. Volle was alternatively researcher and Division Chief Statistic of entreprises et Comptes trimestriels. He has been teaching the data analysis, at ENSAE and at CEPE from 1973 to 1982.

Abstract
From 1975 onwards the technical system, previously built on the synergy of mechanics, chemistry and energy, was supplanted by a technical system that is dominated by the synergy of electronics, software and the Internet. The institutions, especially businesses, are then entered a transitional phase: their organization is destabilized, their mission is reformulated. The current economic crisis is due to the inadequate behavior of institutions, consumers and States to the "new nature" that informatization let emerge. To get out of a crisis, you have to know where to go. We must therefore steer the strategy, taking as reference the model of a society and an economy which are by assumption mature and therefore, as economists say, efficient. We call this model iconomy. It shows the necessary conditions of efficiency: a society that does not respect them cannot reach the efficiency in the new technical system. Here are its main results:
- repetitive tasks being automated, the marginal cost of products is negligible;
- the iconomy being capital-intensive, the risk of the entrepreneur is maximized;
- informatization giving arms to predators, the law and the judicial system must contain the predation;
- the cost function being increasing returns, the market obeys the regime of monopolistic competition;
- each product is diversified in varieties that differ in their qualitative attributes and respond each to a segment of needs; each product is a package of goods and services, developed by a partnership;
- the intensity of innovation depends on the regulation of the duration of a temporary monopoly;
- employment lies mainly in the design of products and the engineering of their production, and in the services the product includes: manual work is replaced by mental work;
- service jobs, in particular, require discernment and a high relational competence;
- the hierarchical organization has been replaced by a collaborative organization that practices the trade of consideration;
- the secret of effectiveness is the quality of the relationship between the mental work and the ubiquitous programmable automaton where lies the computing resource.
In total, the iconomy is an economy of quality, competence and risk. This model illuminates the present situation:
- the essential phenomenon is the informatization of the productive system and not the use of smart phones, social networks etc. to which attention is focused;
- “intelligence” is not “artificial”: it doesn't lay in programs, but in the minds of programmers and the action of producers;
- the main dangers are not "too much information kills information" nor "automation kills jobs": to the economy of competence corresponds a middle class society;
- the main danger is that of a return to feudalism: predation could destroy the rule of law and democracy.
ISDA - Oral Session 16
Time: 04:00pm – 05:00pm
Location: room 1
Chair: Pr. Driss El Ouadghiri, Faculty of Sciences, Moulay Ismail University, Meknès, Morocco

#87 Optimization techniques of static 3D triangular mesh compression: A survey
Soumaya Hachicha, Akram Elkefi and Chokri Ben Amar
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia

#20 Multi-Agent 3D Reconstruction of Human Femur from MR Images
Nachour Abdelhafid, Latifa Ouzizi and Youssef Aoura
ENSAM, Ecole Nationale Superieure d'Arts et Metiers, Moulay Ismail University Meknes, Morocco

#121 Towards a parallelization and performance optimization of Viola and Jones algorithm in heterogeneous CPU-GPU mobile system
Agnès Ghorbel, Nader Ben Amor and Mohamed Jallouli
Computer and Embedded Systems Laboratory, Ecole Nationale d’Ingenieurs de Sfax (ENIS), Sfax, Tunisia

ISDA - Oral Session 17
Time: 04:00pm – 05:00pm
Location: room 2
Chair: Pr. Ilhem Kallel, Regim-LAB, University of Sfax, Tunisia

#130 Adaptive architecture for medical application. Case study: evoked potential detection using matching pursuit consensus
Tarek Frikha, Abir Hadriche, Rafik Khemakhem, Nawel Jmail and Mohamed Abid
CES Lab, Regim Lab, ATMS Unit, Miracl Lab, Sfax University, Tunisia
National Engineering School of Sfax, University of Sfax, Tunisia

#142 RFID and XBee based Automated Verification of Put-away Operation for Warehouse Management Systems
Burcu Bektaş and Hayriye Korkmaz
Computer Programming Gedik Vocational School Pendik, İstanbul/TURKEY
Faculty of Technology, Dept. of Electrical and Electronics Engineering, Marmara University, İstanbul, TURKEY

#140 Embedded EEG localization error using separately lobe for electrodes configuration
Rafik Khemakhem, Tarek Frikha, Abir Hadriche and Ahmad Ben Hmida
ATMS Unit, ISIM-Sfax, Sfax University - Tunisia
CES Lab, National Engineering School of Sfax, Sfax University - Tunisia
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia
ISDA - Oral Session 18
Time: 04:00pm – 05:00pm
Location: room 3
Chair: Pr. Nizar Rokbani, Regim-LAB, University of Sousse, Tunisia

#36 Methods for Detection of Cyberbullying: A Survey
Rekha Sugandhi, Anurag Pande, Siddhant Chawla, Abhishek Agrawal and Husen Bhagat
Department of Computer Engineering MIT College of Engineering Pune, India

#45 Inference in junction trees using the belief function theory
Oumaima Boussarsar, Imen Boukhris and Zied Elouedi
LARODEC, Universite de Tunis, Institut Superior de Gestion de Tunis, Tunisia

#103 TOPSIS using a mixed subjective-objective criteria weights for mutli-criteria ABC inventory classification
Hadhami Kaabi and Khaled Jabeur
Universite de Tunis ‘Institut Superior de Gestion ‘Tunis, Tunisia
Universite de Carthage ‘Institut Superior de Commerce et de Comptabilite’ Bizerte, Tunisia

ISDA - Oral Session 19
Time: 04:00pm – 05:00pm
Location: room 4
Chair: Pr. Hichem Karray, Regim-LAB, University of Sfax, Tunisia

#102 Deep Neural Network with RBF and Sparse auto-encoders for Numeral Recognition
Mellouli Dorra, Hamdani Tarek and Adel Alimi
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia
Taibah University, College Of Science And arts at Al-Ula, al-Madinah al-Munawwarah, KSA, Al-Madinah al-Munawwarah, KSA

#22 A k-Nearest Neighbor Approach to Improve Change Detection from Remote Sensing: Application to Optical Aerial Images
Azzedine Touazi and Djamel Bouchaffra
Centre de Développement des Technologies Avancées Division Architecture des Systèmes et Multimédia, Algiers, Algeria
Université des Sciences et de la Technologie, Houari Boumediene, Algiers, Algeria

#55 Artificial Neural Networks for Demand Forecasting: Application Using Moroccan Supermarket Data
Ilham Slimani, Ilhame El Farissi and Said Achchab
Al-Qualsadi Research and Development Team, National Higher School for Computer Science and System analysis (ENSIAS), Mohammed V, University Rabat, Morocco
Laboratory LSE2I, National School of Applied Sciences(ENSAO), Mohammed first University Oujda, Morocco
ISDA - Oral Session 20
Time: 05:30pm – 06:30pm
Location: room 1
Chair: Pr. Abir Hadriche, Regim-LAB, University of Sfax, Tunisia

#104 Semantic-aware framework for Mobile Image Search
Noura Bouhlel, Amel Ksibi, Anis Ben Ammar and Chokri Ben Amar
REGIM-Lab.: REsearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia

#7 Dealing with temporality when inducing association rules from a retail database.
Rafael Stoffalette João, Maria Do Carmo Nicoletti and Ana Maria Monteiro
DC-UFSCar S. Carlos-SP, Brazil;
FACCAMP and DC-UFSCar C. L. Paulista, S. Carlos-SP, Brazil
FACCAMP C. L. Paulista-SP, Brazil

#12 Practical modeling of the SLA Life Cycle in Cloud Computing
Adil Maarouf, Abderrahim Marzouk and Abdelkrim Hajiq
Computer, Networks, Mobility and Modeling laboratory, FST, Hassan 1st University, Settat, Morocco
e-NGN research group, Africa and Middle East

ISDA - Oral Session 21
Time: 05:30pm – 06:30pm
Location: room 2
Chairs: Pr. Ali Wali, Regim-LAB, University of Sfax, Tunisia
Pr. Hajar Mousannif, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakesh

#100 A New Comparative Study of Ad hoc Routing Protocol AODV and DSR in VANET Environment Using Simulation Tools
Said Benkirane and Abderrahim Beni Hssane
High School of Technology Essaouira, Cadi Ayyad University, Essaouira, Morocco,
ENSA Khouribga, Hassan First University, Settat, Morocco,
Faculty of Sciences Sidi Mohamed Ben Abdillah University, Fez, Morocco,
Faculty of Sciences Chouaib Doukkali University El Jadida, Morocco

#123 Minimum Unsatisfiability Based QoS Web Service Composition over the Cloud Computing
Abderrahim Ait Wakrime and Said Jabbour
Univ. Orleans, INSA Centre Val de Loire, LIFO, EA 4022, F-45067, Orléans, France. CRIL-CNRS, Universite Artois, France.

#136 Ontology-Based Approach to Provide Personalized Search Results for Handicraft Woman
Emna Rekik, Maha Maalej, Achraf Mtibaa and Faiez Gargouri
Higher Institute of Computer Science and Multimedia, University of Sfax, Tunisia
National School of Electronic and Telecommunications, University of Sfax, Tunisia
ISDA - Oral Session 22
Time: 05:30pm – 06:30pm
Location: room 3
Chair: Pr. Mohamed Ben Halima, Regim-LAB, University of Sfax, Tunisia

#115  **GPU-based Segmentation of Dental X-ray images using Active Contours Without Edges**  
Ramzi Ben Ali, Ridha Ejbali and Mourad Zaied  
*REGIM-Lab.: RResearch Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia*

#85 **Implementation of a Maximum Power Point Tracking fuzzy controller on FPGA circuit for a photovoltaic system**  
Hanen Abbes  
*Laboratory of Computer and Embedded Systems (Lab-CES)*  
*Laboratory of Sciences and Techniques of Automatic control & computer engineering (Lab-STA)*  
*National School of Engineering of Sfax, University of Sfax, PO Box: 1173,3038 Sfax Tunisia.*

#98 **Cloud discrimination using K Nearest Neighbors Classifier: Application to Dataset Generated by Sétif RADAR (Algeria) and MSG-SEVIRI Satellite Images**  
Fatiha Mokdad, Boualem Haddad, Zineb Bala and Ilhem Tiblali  
*Laboratory of Image Processing and Radiation, University of Science and Technology Houari Boumediene, Algeria*

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ISDA - Oral Session 23
Time: 05:30pm – 06:30pm
Location: room 4
Chair: Pr. Yassine Aribi, Regim-LAB, University of Sfax, Tunisia

#132 **Quality Evaluation of Web Sites: A Comparative Study of some Multiple Criteria Decision Making Methods**  
Rim Rekik, Ilhem Kallel and Adel M. Alimi  
*REGIM-Lab: Research Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia.*  
*ISIMS: Higher Institute of Computer Science and Multimedia of Sfax*

#23 **From Data to Wisdom : A New Multi-Layer Prototype for Big Data Management Process**  
Imadeddine Mountasser, Brahim Ouhbi and Bouchra Frikh  
*LM2I laboratory, ENSAM Moulay Ismail University Marjane II, B.P. 4024, Meknès, Morocco; LTTI laboratory, ESTFSidi Mohamed Ben Abdellah University B.P. 1796 Atlas, Fès, Morocco*

#33 **A new Hybrid Discrete Bat Algorithm for Traveling Salesman Problem using ordered crossover and 3-Opt operators for bat's local search**  
Jihen Amara, Adel Alimi and Tarek M.Hamdani  
*REGIM-Lab: Research Groups in Intelligent Machines, University of Sfax, ENIS, BP 1173, Sfax, 3038, Tunisia.*  
*Taibah University, College Of Science And arts at Al-Ula, al MAdinah al-Munawwarah, KSA*
ISDA - Oral Session 24
Time: 09:00am – 10:00am
Location: room 1
Chair: Pr. Habib M. Kammoun, REGIM-Lab., University of Sfax, Tunisia

#64 Drowsy Driver Detection by EEG Analysis Using Fast Fourier Transform
Mejdi Ben Dkhil, Ali Wali and Adel M. Alimi
Research Groups in Intelligent Machines, University of Sfax, National School of Engineers (ENIS), BP 1173, 3038, Sfax, Tunisia

#9 Maximal Frequent Sub-graph Mining for Malware Detection
Aya Hellal and Lotfi Ben Romdhane
National School of Computer Science, Tunis University of Manouba, Tunisia;
Higher Institute of Computer Science and Communication Technologies, Hammam Sousse, University of Sousse, Tunisia

#131 Despikifying SEEG signals using a temporal basis set
Nawel Jmail, Martine Gavaret, Fabrice Bartolomei and Christian Bénar
Sfax University, MIRACL, Sfax, Tunisia
Aix-Marseille Université, Faculty of Medicine, INSERM, Institut de Neurosciences des Systèmes, UMR 1106, Marseille, France

ISDA - Oral Session 25
Time: 09:00am – 10:00am
Location: room 2
Chair: Pr. Chokri Ben Amar, Regim-LAB, University of Sfax, Tunisia

#21 Comparison of E-readiness Composite Indicators
Lamriq Rabii and Doukkali Abdelaziz
TIES Team ENSIAS, Med V University Rabat, Morocco

#59 A Framework for Supporting the Choice of Usability Evaluation Methods for Interactive Adaptive Systems
Amira Dhouib, Abdelwaheb Trabelsi, Christophe Kolski and Mahmoud Neji
Miracl Laboratory, Faculty of Economics and Management Sciences, University of Sfax, B.P. 1088, Sfax 3000 Tunisia
LOGIQ; Faculty of Sciences Sfax, University of Sfax, B.P. 1088, Sfax 3000 Tunisia
LAMIH-UMR CNRS 8201, University of Valenciennes and Hainaut-Cambrésis, Valenciennes, France

#77 Performance evaluation of RED approach for traffic lights management
Said Alabdallaoui, Idboufker Noureddine and Abdelghafour Berraissoul
LR-11-ES17 Signal, Images et Technologies de l’Information (LR-SITI-ENIT), Université de Tunis El Manar, Ecole Nationale d’Ingénieur de Tunis, 1002, Tunis Le Belvédère, Tunisie
ISDA - Oral Session 26
Time: 09:00am – 10:00am
Location: room 3
Chair: Pr. Amine Berqia, ENSIAS, Mohammed V University, Rabat, Morocco

#72 An extended approach for the behavioral and temporal constraints specification of reactive agent
Abdelhay Haqiq and Bouchaïb Bounabat
Alqualsadi research team ENSIAS, Mohammed V University Rabat, Morocco

#147 Performance evaluation of classification algorithms by excluding the most relevant attributes for dipper/non-dipper pattern estimation in Type-2 DM patients
Zehra Aysun Altikardes, Hasan Erdal, Ahmet Fevzi Baba, Ali Serdar Fak and Hayriye Korkmaz
Marmara University, Vocational School of Technical Sciences, Dept. of Computer Technologies, Istanbul, Turkey
Marmara University, School of Medicine, Department of Internal Medicine, Istanbul, Turkey
Marmara University, Faculty of Technology, Department of Electrical & Electronics Engineering, Istanbul, Turkey

#88 Evaluating Decision Support Systems: A Literature Review
Khaoula Boukhayma and Abdellah Elmanouar
ENSIAS Engineering School Mohammed V University

ISDA - Oral Session 27
Time: 09:00am – 10:00am
Location: room 4
Chair: Pr. Nizar Rokbani, Regim-LAB, University of Sousse, Tunisia

#74 Implementation of skin color selection prior to Gabor filter and neural network to reduce execution time of face detection
Mejda Chihaoui, Akram Elkefi, Wajdi Bellil and Chokri Ben Amar
REsearch Groups in Intelligent Machines, University of Sfax, National School of Engineers (ENIS), BP 1173, 3038, Sfax, Tunisia

#128 Video event detection using auto-associative neural network and incremental SVM models
Mohamed Chakroun, Ali Wali, Yassine Aribi and Adel M. Alimi
REGIM-Lab. REsearch Groups in Intelligent Machines, University of Sfax, National School of Engineers (ENIS), BP 1173, 3038, Sfax, Tunisia

#144 A New Image Segmentation Approach using Community Detection Algorithms
Youssef Mourchid, Mohammed El Hassouni and Hocine Cherifi
LRIT URAC 29, University of Mohammed V-Agdal, Rabat, Morocco
LE2I UMR 6306 CNRS, University of Burgundy, Dijon, France
Planary Talk VI
Time: 10:00am – 11:00am
Location: room 1
Chairs: Pr. Amine Berqia, ENSIAS, Mohammed V University, Rabat, Morocco
Pr. Chokri Ben Amar, Regim-LAB, University of Sfax, Tunisia

Visualization and Research Reproducibility?

Layth Sliman

EFRI, France

Biography

completed his Diploma in Computer Engineering. Then he obtained his masters in Computer Science (Information systems) in INSA Lyon- France and then his PhD from INSA Lyon, in collaboration with the university of the Ryukyus, Japan. In 2003, he underwent training in Development and Implementation program in Computer Software Applications in CMC-TATA, New Delhi, India. In the same year, he also underwent another training in Information and Communication Technologies in MEIO University and Okinawa International Center, Japan. In 2008, 2009 2010, 2012, 2013 and 2014 he did many research stays on Digital Rights Management and image processing in the University of the Ryukyus and Ritsumeikan University - Japan. During the period 2000-2010, he worked as lecturer and assistant professor, did his research and taught Computer Engineering and Information Systems in many universities including INSA, Lyon, the university of the Ryukyus in Japan, Beijing University of Technology, South China University of Technology China, and the Institute of Visual Informatics in Malaysia. Since September 2010 he is associate professor in EFREI, a French engineering school located in Paris. He is also the head of the Business Intelligence Program at EFREI, president of Olab-Dynamics Association for Interdisciplinary Scientific Cooperation and Technology Transfer. His is a research fellow in many international institutes. His main topic is Collaborative Information Systems. This involves many topics including Web 2.0, IS Architecture, IS Security, Cloud Computing, SaaS, Semantic Web and semantic SOA.

Abstract

Nowadays, running tests and visualize simulations becomes an essential part of scientific findings validation and experimentation. It becomes crucial to researchers to launch simulations and scripts to evaluate and test their models and algorithms on computer platforms. However, research dissemination methods suffer from a major lack in that they do not allow real test of the code and scripts used to validate the findings in the published papers. Furthermore, conventional simulation software have solely been designed to allow online and crowd sourcing, testing and visualization of implementations and experimentations outcomes. In this speech, I’ll try to review the on-going development project of Exec&Share Platform as a Service simulation suites dedicated to research community. “Exec&Share” is supported by many academic and research organizations in many countries. The platform enables scientists to openly collaborate, share and visualize the outcome and data underlying their research publications. Relying on the powerful parallel processing feature of the grid-based platform and on its innovative concepts, the platform provides a Benchmarking features i.e. it allows launching effortlessly and simultaneously a collection of simulations codes and scripts using the same set of input data and the same or different running environments. Furthermore, the recent development of the platform will allow a very sophisticated features of Visual simulation and interactive visualization dedicated to many very important research domains including Bio-technology and Visualization of high frequency financial data.
Planary Talk VII
Time: 10:00am – 11:00am
Location: room 2

Chairs: Pr. Michel Voll, Institute of Iconomy, France
Pr. Jaouad Dabounou, Hassan 1st University, Settat, Morocco

To ally Data and Narration in Analytics for radically improved Decision Process

Thierry Moniquet
Consulting International Strategy, Morocco

Biography

Graduated MsC in social and economics science and MsC Territorial Development, Thierry Moniquet has developed his professional expertise in Institutional Communication, Public Affairs and Strategic Intelligence. He has coordinated European projects and networks in EU programs. For instance, he has developed inter-cluster networks in ASD (Aeronautics Space Defense) industry. He intervened as expert in international missions for industrial clusters set-up like in Russia. He advised governmental bodies to implement international program management units like in Balkans. He carried out missions as scientific advisor for Institut des Hautes Etudes pour la Science et la Technologie - IHEST - du Ministère français de la Recherche : he organized European high level seminars for IHEST’s auditors on the topics of innovation systems in Europe. He acquired therefore specific expertise in the matter of Innovation, Governance and Clusters.

More recently, he has anchored its expertise in Moroccan market. Since 2011 he has succeeded to conceive and create a cluster labeled by the Moroccan government: MENARA cluster in Marrakech specialized in upper scale and lux agro-food and cosmetics products. He is coaching start-ups and entrepreneurs in helping them to optimize strategic communication in order to create industrial and financial partnerships, to organize the foundations of their marketing strategy and to adopt an economic and business diplomacy. He coached the creation of a professional association, the Federation of the Moroccan Snail supply chain.

Along this experience, Thierry Moniquet has built his capacity as a methodologist. Communication is at the core of the methodological frameworks he developed in the context of his missions. In particular, storytelling, narrative and design thinking techniques are central to his works and his methods of intervention. For instance, storytelling is used as an important tool of Strategy Analyze, as well as for in partnership's and network's management or Branding (brand culture). With young Moroccan designers, he develops research about Smart Cities and visualization techniques. In this context, narrative data, narrative visualization data are becoming top priority topics in his research and studies. More generally these conceptual and methodological developments led him to work on experimental methodologies in education and pedagogical engineering.
Abstract

With the Big Data and the Cloud Computing, a new area of development is growing very rapidly. New names are arousing for designating this new strand of creation and expertise: "story data", "narrative data", "narrative visualization data", etc.... Behind these expressions, a new corpus of expertise and know-how is under way of consolidation. As Edward Segel and Jeffrey Heer, noted in their article "Narrative Visualization: Telling Stories with Data", on vis.stanford.edu (Stanford visualization group), "Crafting successful “data-stories” requires a diverse set of skills. Gershon and Page [12] note that effective story-telling “require[s] skills like those familiar to movie directors, beyond a technical expert’s knowledge of computer engineering and science.” While techniques from oration, prose, comic books, video games, and film production are applicable to narrative visualization, we should also expect this emerging medium to possess unique attributes. Data stories differ in important ways from traditional storytelling. Stories in text and film typically present a set of events in a tightly controlled progression. While tours through visualized data similarly can be organized in a linear sequence, they can also be interactive, inviting verification, new questions, and alternative explanations. Storytelling is already a technique largely used in public relations, marketing for creating a brand culture and image. In strategy analysis, it constitutes a complementary method for analyzing situations and organizations. Emotional Intelligence mobilized through the conception of a storytelling and Logical Intelligence based on data analytics can be combined to achieve the most accurate level of analyze. But the revolution of Big Data and Cloud modifies radically the interaction between the two intelligences. Big Data and Cloud Computing are expanding data we can collect, analyze and interpret about any realities. It permits us to develop the knowledge and understanding of realities and situations at so high levels that hard never reached before. But, in the same time, it reveals an even more complexity of these ones and the importance of the emotional intelligence along the logical one in the process of knowledge creation. That's what Kris Hammond, Ph.D. from Yale, co-founder and chief scientist at Narrative Science and professor of computer science at Northwestern University, Founder the University of Chicago's Artificial Intelligence Laboratory expressed succinctly as follows: "People have a hard time understanding data. That’s why data scientists and analysts are often asked to convert their findings into narrative reports. People with interpretive skills are turning that data into the thing that most of us easily understand: narratives explaining what is going on in the world based on evidence provided by the data. Likewise, the data associated with us as individuals, including the wealth of data from the emerging Internet of Things will be transformed into reports that real people will be able to read and understand. Rather than seeing data, they will see stories of their own lives mapped out for them based on artificial intelligence language systems looking at their data and explaining it to them. Data associated with their homes, cars, health, exercise, and fitness will become the clear, clean narratives that will be the stories of their lives. The days of thinking of data as the end game are over. We now are entering the era of the narrative – narratives generated by systems that understand data, narratives that give us information to support the decisions we need to make about tomorrow. Data will always be important, but the story of that data is the last mile." (In "The end of Big Data: AI and The Rise of Narrative", March 6 2015, www.datainformed.com). The "story of the data" is not only a necessity to make understandable the significance of a data for "real people". It offers new dramatic creative perspectives. Big Data is indeed an extraordinary opportunity to enlarge and renew traditional narrative techniques like storytelling and their applications. As Daniel Weisberg, Analytics Advocate, Google explains: "Marketers are responsible for messaging; as such, they’re often the bridge between the data and those who need to learn something from it, or make decisions based on its analysis. By rethinking the way we use data and understanding our audience, we can create meaningful stories that influence and engage the audience on both an emotional and logical level."
ISDA - Oral Session 28  
**Time:** 11:30am – 12:30am  
**Location:** room 1  
**Chair:** Pr. Ilhem Kallel, Regim-LAB, University of Sfax, Tunisia

#10  
**Biomedical Concepts Extraction based Information Retrieval Model: application on the MeSH**  
Mondher Sendi and Mohamed Nazih Omri  
*MARS Research Unit, Faculty of Sciences of Monastir, University of Monastir, 5019 Monastir, Tunisia*

#70  
**Rhythm Metrics in MSA spoken Language of Six Algerian Regions**  
Ghania Droua Hamdani and Malika Boudraa  
*Speech Processing Laboratory CRSTDLA Algiers, Algeria*

#139  
**Compact Genetic Algorithms with larger tournament size for soft-Decision Decoding**  
Ahlam Berkani, Ahmed Azouaoui, Mostafa Belkasmi and Bouchaib Aylaj  
*Mohammed V-Rabat University, SIME labo, ENSIAS FS - El Jadida, Chouaib Doukkali University, Morocco*

ISDA - Oral Session 29  
**Time:** 11:30am – 12:30am  
**Location:** room 2  
**Chair:** Pr. Ali Wali, Regim-LAB, University of Sfax, Tunisia

#29  
**Qualitative AHP Models under the Belief Function Framework**  
Amel Ennaceur, Zied Elouedi and Eric Lefevre  
*LARODEC Universite de Tunis, Institut Supérieur de Gestion “ Tunisie; LGI2A, Univ. Artois, EA 3926, Bethune, F-62400, France*

#127  
**Degeneration simulated annealing algorithm for combinatorial optimization problems**  
Bouchaib Aylaj, Belkasmi Mostafa, Hamid ZOUAKI and Ahlam BERKANI  
*Department of Maths, LIMA, Faculty of Sciences, SIME Labo, ENSIAS, Chouaib Doukkali University, Mohammed V University El Jadida, 24 Rabat, Morocco*

#94  
**A cooperative learning strategy with multiple search mechanisms for improved artificial bee colony optimization**  
Fatima Harfouchi and Hacene Habbi  
*Applied automation laboratory University of Boumerdès, Boumerdès, Algeria*
ISDA - Oral Session 30
Time: 11:30am – 12:30am
Location: room 3
Chair: Pr. Mohamed Ben Halima, Regim-LAB, University of Sfax, Tunisia

#63 Towards a secure access control model for E-learning platform based on multi agent systems
Kassid Asmaa and El Kamoun Najib
STIC Laboratory ChouaibDoukkali University El Jadida, Morocco

#108 Agent-based system simulation of Electronic Commerce : Effect of cut-link on prisoner's dilemma with small world topology
Jalal Eddine Bahbouhi and Moussa Najem
LAROSERI, Department of Computer Science University of Chouaib Doukkali EL Jadida, Morocco

#129 Algorithm for Time-Constrained Paths to Deliver Services
Raija Halonen, Olli Martikainen, Valeriy Naumov and Ye Zhang
Department of Information Processing Science, University of Oulu, Oulu, Finland
Pikesta Oy Lönrotinkatu 30 D, 4 hrs Helsinki, Finland
PIKE Lönrotinkatu 30 D, 4 hrs Helsinki, Finland

ISDA - Oral Session 31
Time: 11:30am – 12:30am
Location: room 4
Chair: Pr. Ilhem Kallel, Regim-LAB, University of Sfax, Tunisia

#69 Towards an Intelligent Decision Support System for Renewable Energy Management
Hamza Sellak, Brahim Ouhbi and Bouchra Frikh
LTTI laboratory, ESTF, Sidi Mohamed Ben Abdellah University, B.P. 1796 Atlas, Fez, Morocco

#93 Toward an Optimal Medical Image Compression based on ISOM
Imen Chaabouni, Wiem Fourati and Medsalim Bouhlel
ISBS-University of Sfax, Tunisia

#113 Knowledge Structures: Which one to use for the query disambiguation?
Ghada Feki, Rim Fakhfakh, Anis Ben Ammar and Chokri Ben Amar
Research Groups on Intelligent Machines (REGIM-Lab.), University of Sfax, National Engineering School of Sfax (ENIS), Sfax, Tunisia

#119 Requirement-Based Lexical Web Service Generation
Mehdi Ben Abderrahmen, Bilel Gargouri and Mohamed Jmaiel
University of Sfax, ReDCAD Laboratory ENIS, B.P 1173, 3038 Sfax, Tunisia
University of Sfax, MIRAcl Laboratory, ISIMS, Technological pole of Sfax, Tunis Road Km 10 BP. 242, 3021 Sfax, Tunisia;
Research Center for Computer Science Multimedia and Digital Data Processing of Sfax B.P. 275, Sakiet Ezzit, 3021 Sfax, Tunisia