

Welcome to

International Symposium on Computer Sciences and Applications (ISCSA2017)

October 26-27-28, 2017

Errachidia, MOROCCO

With support of

Moulay Ismail University, Faculty of Sciences and Techniques

Errachidia, MOROCCO

<http://www.fste-icsa.net/icsa2017>

PROGRAM AT A GLANCE

ISCSA2017 Program Time Slots

Timing	Thursday 26 October 2017	
08:00-09:00	Welcome Desk & Registration At “ Complexe Socio-culturel et Sportif Oulad El-haj, Route d'Erfoud, Errachidia ”	
09:00-10:00	Opening Ceremony	
10:00-10:30	Coffee Break	
10:30-11:30	Keynote Speaker 1	
11:30-13:00	Sessions S-1	
13:00-15:00	LUNCH	
15:00-16:00	Keynote Speaker 2	
16:00-17:15	Sessions S-2	Sessions S-3
17:30-17:45	Coffee Break	
17:45-19:00	Sessions S-4	Sessions S-5

Timing	Friday 27 October 2017	
08:30-09:30	Keynote Speaker 3	
09:30-10:30	Sessions S-6	Sessions S-7
10:30-10:45	Coffee Break	
10:45-11:45	Keynote Speaker 4	
11:45-12:45	Sessions S-8	Sessions S-9
14:15-15:30	LUNCH	
15:30-16:30	Keynote Speaker 5	
16:30-16:45	Coffee Break	
16:45-18:00	Sessions S-10	Sessions S-11

Timing	Saturday 28 October 2017	
08:30-09:30	Keynote Speaker 6	
09:30-10:30	Sessions S-12	Sessions S-13
10:30-11:00	Closure & Coffee Break	

Lunch and Excursion to Erfoud and Merzouga

Keynote Speaker 1

Title: A Cruise Through Signal Processing Discipline

Professor Mohamed NAJIM, ENSEIRB, Bordeaux, France

Session Chair: Prof. H. QJIDAA

Room: Amphitheater

Keynote Speaker 2

Title: Possibilistic Reasoning for Medical and Remote Sensing Scene Interpretation

Professor Basel SOLAIMAN, Institut Mines-Telecom de l'Atlantique, Brest, France

Session Chair: Prof. M. EL ANSARI

Room: Amphitheater

Keynote Speaker 3

Title: Manifold Learning For Analyzing Shapes and Functional Dynamics

Professor Chafik SAMIR, University of Clermont Auvergne, France

Session Chair: Prof. H. QJIDAA

Room: Amphitheater

Keynote Speaker 4

Title: La Localisation GNSS

Professor Taib SADIKI, UIR, Rabat, Morocco

Session Chair: Prof. S. BRI

Room: Amphitheater

Keynote Speaker 5

Title: La sécurité dans le Web 2.0/3.0

Professor ASIMI Ahmed, University Ibn Zohr, Morocco

Session Chair: Prof. A. IBRIZ

Room: Amphitheater

Keynote Speaker 6

Title: Wireless Sensor Networks: Technologies and Applications

Professor Mohammed BAKHOUYA, UIR, Rabat, Morocco

Session Chair: Prof A. ASIMI

Room: Amphitheater

Keynote Speaker 7

Title: INTEGRATION OF BIG DATA ANALYTICS SOLUTION TO IMPROVE THE QoS OF NETWORKS FOR SMART DEVICES ADAPTATION

Professor Mostafa Ezziyani, Abdelmalek Essaadi University, Morocco

Session Chair: Prof. B. AKSASSE

Room: Amphitheater

Sessions S-1: Image Processing and Computer Vision

Session Chair: Prof. SILKAN Hassan, FS-UCD, El Jadida, Morocco

Room: Amphitheater

- A novel thermal and vision-based pedestrian detection system using features combination and Random forests

Redouan LAHMYED, Mohamed EL ANSARI

Faculty of Science, Ibn Zohr University, Agadir, Morocco

- Blind Source Separation and Segmentation

Said Ziani, Atman Jbari, Larbi Belarbi

Mohammed V University in Rabat, Morocco

- Counting the vehicles by video surveillance

Salma Bouaich, Mohamed Adnane Mahraz, Jamal Riffi, Hamid Tairi

University of Sidi Mohamed Ben Abdellah, Fez, Morocco

Sessions S-2: Image Processing and Computer Vision

Session Chair: Prof. MASMOUDI Lhoussaine, FS-UM5, Rabat, Morocco

Room: Amphitheater

- Content-Based Image Retrieval Using Convolutional Neural Networks and SVM

Ouhda Mohamed, Ouanan Mohammed, and Aksasse Brahim

Moulay Ismail University, Errachidia, Morocco

- Sparse features Face recognition scheme

OUANAN Hamid, Ouanan Mohammed, and Aksasse Brahim

Moulay Ismail University, Errachidia, Morocco

- Performance of moving objects detection methods in specific situations: Comparative study

R. Amakrane, M. BenYakhlef, A. Saaidi,

Poly-disciplinary Faculty, Taza, Morocco

- Image moments and reconstruction by Tchebichef and Clenshaw's recurrence formula

Tarik Jahid, Hicham Karmouni, Abdeslam Hmimid, Hicham Amakdouf, Mhamed Sayyouri & Hassan Qjidaa,
Sidi Mohamed Ben Abdellah University, Fez, Morocco

Sessions S-3: Optimization & Smart Computing

Session Chair: Prof. AGOUJIL Said, FST-UMI, Errachidia, Morocco

Room: Room 1

- Speed reduced gradient algorithm for nonlinear programming with applications

Abdelkrim El Mouatasim

Polydisciplinary Faculty of Ouarzazate Ibn Zohr University, Morocco

- Applied study of energy saving, voltage drop reducing technically using reactive power compensation and cable resizing in Gaza electrical grid and its program simulation quality improvement

Hussam Awwad

Palestinian Broadcasting Corporation, Gaza, Palestine

- Tracking control using PDC/OPDC controllers for isothermal CSTR

BZIOUI Sana, CHANNA Rafik

Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco

- A Fractional Social Force Model

Akhilil Khalid, El Mahfoud Abdelali.

Polydisciplinary Faculty of Ouarzazate Ibn Zohr University, Morocco

Sessions S-4: E-learning and Applications

Session Chair: Prof. ELBERMI Lahcen, FST-UMI, Errachidia, Morocco

Room: Amphitheater

- A hybrid recommendation approach based on ontology and sequential pattern mining -Application in the e learning field-

Ouafae EL AISSAOUI, Lahcen OUGHDIR, Ahmed DAKAK

Polydisciplinary Faculty –Taza, Morocco

- Toward the MOOC capitalization using Fuzzy Analytical Hierarchy Process

Yassine Afa , Amal Battou, Omar Baz

FSA, Ibn Zohr University, Agadir, Morocco

- Mining the Web for learning ontologies : state of art and critical review

M. El Asikri , S. Krit , H. Chaib , M. Kabrane, H. Ouadani, K. Karimi, K. Bendaouad and H. Elbousty

Polydisciplinary Faculty of Ouarzazate, Ibn Zohr University, Agadir , Morocco

- Introduction à L'Analyse des Réseaux Sociaux En Ligne au Maroc. Processus d'Acquisition des Données & Résultats Préliminaires

Yassine EL Moudene, Jaafar Idris, Abderrahim Sabour

Ecole Supérieur de Technologie, Agadir, Morocco

- Chinese And Moroccan Higher Education MOOCs: Rationale, Implementation and Challenges

OUBIBI MOHAMED, ZHAO WEI

School of Information Science and Technology Northeast Normal University, Changchun, China

Sessions S-5: Image Processing and Computer Vision

Session Chair: Prof. BOUMHIDI Jaouad, FS-USMBA, Fez, Morocco

Room: Room 1

- Clay-based ceramic porosity estimation using image processing techniques

Jida Safa, Ouanan Mohammed, and Aksasse Brahim

Moulay Ismail University, Errachidia, Morocco

- Improvement of the Recognition System for Image of Characters Obtained by Camera Phone

Youssef Rachidi, Zouhir Mahani

Université Ibn Zohr, Agadir, Maroc

- A new algorithm to Compute the Orthogonal Radial Meixner Moments in the polar coordinate

Mostafa El Mallahi, Amal Zouhri, Hicham Amakdouf, and Hassan Qjidaa,

Sidi Mohamed Ben Abdellah University, Fez, Morocco

- An Approach To Extract Speaker's Voice Feature Using MFCC (Mel-Scale Frequency Cepstral Coefficients) Technique For Text-Dependent Speaker Recognition

Mariame Jenhi , Ahmed Roukhe , Laamari Hlou

University Moulay Ismail, Meknes, Morocco

- Stabilization of Particle Filter Based vertebrae tracking in lumbar spinal video fluoroscopy

Amina Amkoui, Ibrahim Guelzim, Hammadi nait charif, Lahcen Koutti

Faculty of Sciences, Ibn Zohr University, Agadir, Morocco

Sessions S-6: Networks, Security and Applications

Session Chair: Prof. QARAAI Youssef, FST-UMI, Errachidia, Morocco

Room: Amphitheater

- Malformed Message Detection in SIP Environment

Mourade Azrou, Mohammed Ouanan, Yousef Farhaoui

Moulay Ismail University, Faculty of sciences and Techniques, Errachidia, Morocco.

- Improvement the Wireless Network Security by Requiring the news Cryptographic primitives

Younes ASIMI, Ahmed ASIMI, Zakariae TBATOU, Azidine GUEZZAZ and Yassine SADQI

Faculty of Sciences, Ibn Zohr University, Agadir, Morocco

- Development of an Algorithm based on Conservation of Energy and on a Hierarchical Routing Protocol

HAJAR LAGRAINI, MOSTAFA CHHIBA, ABDELMOUMEN TABYAOUI, AHMED MOUHSEN

University Hassan, Faculty of Sciences and Technology, SETTAT, MOROCCO

- Evaluation of routing protocols in wireless sensor networks based on the factorial correspondence analysis

Mustapha EL QASEMY, Said RAGHAY

Faculty of Sciences and Technology, Cadi Ayyad University, Marrakesh, Morocco

- Protocole DTN adaptatif pour les objets communicants hétérogènes : HDRP

Hanane Zekkori, El Arbi Abdellaoui Alaoui and Said Agoujil

Faculty of Sciences and Techniques, Errachidia, Morocco

Sessions S-7: Big Data Analytics & Cloud Computing

Session Chair: Prof. AGHOUTANE Badraddine, FP-UMI, Errachidia, Morocco

Room: Room 1

- Improvement of battery life of iPhones Inertial Measurement Unit by using edge computing. Application to cattle behavior

Olivier Debauche, Saïd Mahmoudi, Pierre Manneback, Nassima Tadrast, Jérôme Bindelle, Frédéric Lebeau

University of Mons - FPMs/Computer Science Unit, Mons, Belgium

- A new architecture for E-learning systems based on Big Data technologies in Cloud Computing

Karim DAHDOUH, Ahmed DAKKAK, Lahcen OUGHDIR, Fayçal MESSAOUDI

University of Sidi Mohamed Ben Abdellah, Fez, Morocco

- An Incremental and Distributed Inference Method for Large Scale Ontologies over SPARK

Mohamed OUBEZZA, Ali ELHORE, Jamal EL KAF

University of Chouaib Doukkali, El Jadida, Morocco

- Incident Detection using Particle Swarm Optimization Extreme Learning Machines

Mohamed Dardor, Mohammed Chlyah and Jaouad Bounhidi

Sidi Mohamed Ben Abdellah University, Faculty of Science Dhar, fez, Morocco

- Querying XML and Relational Data

Hassana Nassiri, Mustapha Machkour and Mohamed Hachimi

University Ibn Zohr, Morocco

Sessions S-8: Networks, Security and Applications

Session Chair: Prof. OUGHDIR Lahcen, FP-USMBA, Taza, Morocco

Room: Amphitheater

- Resolving privacy and security issues occurring in radio frequency identification use in the internet of things

Yassir Rouchdi, Khalid El Yassin, Kenza Oufaska

University Moulay Ismail, Meknes, Morocco

- 5G: Equalization, Channel coding and Massive MIMO

Hayat JEBBAR, Sanae EL HASSANI, Ahmed EL ABBASSI

Faculty of Sciences and Techniques, Errachidia, Morocco

- Non-cooperative Games for TSP Topology in DTN Network

Hanane Zekkori, El Arbi Abdellaoui Alaoui, Nassiri Khalid and Mustapha El Moudden

Faculty of Science, Rabat, Morocco

- Caractéristiques des probabilités de délivrance dans les réseaux AD-HOC et DTN

M.Laarif, Y.Qaraai, S.Agoujil

FST Errachidia, Université Moulay Ismail, Morocco

Sessions S-9: Image Processing and Computer Vision

Session Chair: Prof. Ahmed Roukhe, FS-UMI Meknes, Morocco

Room: Room 1

- CBIR Using Content Frequency and Color Features
Youness CHAWKI, Khalid EL ASNAOUI, Mohammed OUANAN, Brahim AKSASSE
Moulay Ismail University, Faculty of Science and Techniques, Errachidia, Morocco
- Using visual lifelogs to create rich human digital memory in egocentric dataset
K. EL Asnaoui, H. Aksasse, B. Aksasse, M. Ouanan
Faculty of Science and Techniques, Errachidia, Morocco
- 3D Point Cloud Simplification using K-NN Estimation and Fuzzy C-Means Clustering Algorithm
Abdelaaziz MAHDAOUI, Aziz BOUAZI, Abdallah Hsaini MARHRAOUI, El Hassan SBAI
Moulay Ismail University, Faculty of Science, Meknès, Morocco
- Krawtchouk Moments via Digital Filter for Image Reconstruction
Hicham Karmouni, Tarik Jahid, Abdeslam Hmimid, Hicham Amakdouf, Mhamed Sayyouri, Hassan Qjidaa
Faculty of Sciences Dhar El-Mehraz, Sidi Mohamed Ben Abdellah University, Fez, Morocco
- Optimization of Clustering with select the most pertinent features by Evolutionary Algorithms
Ahmad El Allaoui, M'barek Nasri, Mohammed Merzougui
University of Mohammed I, ESAH, AL HOCIEMA, MOROCCO

Sessions S-10: Optimization & Smart Computing

Session Chair: Prof. AOURAGH Driss, FST-UMI, Errachidia, Morocco

Room: Amphitheater

- Multi-layer Perceptron Generalisation : Extend Multiobjective Optimization Model
SENHAJI Kaoutar, RAMCHOUN Hassan, ETTAOUIL Mohamed
University Sidi Mohamed Ben Abdellah, Faculty of Sciences and Technics, FES, MOROCCO
- Implémentation d'un site de production pour une unité de transformation laitière dans la région centre
Mohamed DJAFER, Youcef DJEMAA, Lamia TRIQUI, SARI, Fouad MALIKI
Université de Tlemcen, Algerie
- A Bipolar Single Valued Neutrosophic Isolated Graphs: Revisited
Said Broumi, Assia Bakali, Mohamed Talea, Florentin Smarandache, Mohsin Khan
Faculty of Science Ben M'Sik, University Hassan II, Casablanca, Morocco
- Data model integration
Hassana Nassiri, Mustapha Machkour and Mohamed Hachimi
University Ibn Zohr, Morocco

Sessions S-11: Image Processing and Computer Vision

Session Chair: Prof. El Yassini Khalid, FS, Meknès, Morocco

Room: Room 1

- The comparison between Matrix Pencil and Prony methods for analysis of real transient multiexponential signals
Lina El Alaoui El Abidi, Mounir Hanine, Brahim Aksasse,
Moulay Ismail University, Faculty of Science and Techniques, Errachidia, Morocco
- Text Line and Pseudo-Word Segmentation of Arabic Manuscripts Based on Scale-Space Method
Noureddine El makhfi, Badraddine Aghoutane, El bachir Tazi, Omar EL Bannay,
ESTK, Moulay Ismail University Morocco
- Rectifier circuit for a passive UHF RFID tag in technology CMOS 180nm
Zakia Menssouri, Zineb Mrabet, Hassan Qjidaa, Rachid El Alami, Karim El Khadiri

Sidi Mohamed Ben Abdellah University, Faculty of sciences Dhar El-Mehraz, Fez, Morocco

- Use of Convolutional Neural Networks in Lifelogging for the Classification of Daily Activities

Hamid Aksasse, Khalid El Asnaoui, Brahim Aksasse and Ouanan Mohammed

Moulay Ismail University, Faculty of Science and Techniques, Errachidia, Morocco

- Segmenting satellite image by a Markov random field-maximum a posteriori model using color, texture and contour features

Jamal Bouchti, Adel Asselman, Abdellah El Hajjaji

Faculty of Sciences, Tetuan, Morocco

Sessions S-12: Big Data Analytics & Cloud Computing

Session Chair: Prof. ELOUADGHIRI Moulay Driss, FS-UMI, Meknes, Morocco

Room: Amphitheater

- Big Data and Internet of Things -fusion for Air quality prediction

Safae SOSSI ALAOUI, Brahim AKSASSE, Yousef FARHAOUI

Moulay Ismail University, Faculty of Sciences And Techniques, Errachidia, Morocco

- DECIDING THE NUMBER OF CLASSES IN CLASSIFICATION METHODS

Abdallah Abarda, Youssef Bentaleb and Hassan Mharzi

Ibn Tofail University, Morocco

- Application Of GIS Technologies And Remote Sensing Data For Landslide Mapping In Mazari Area, North Of Morocco

Meryem ELMOULAT, Lahcen Ait Brahim

Mohamed V University, Faculty of Science, Rabat – Agdal, Morocco

- Breast Cancer Classification Using Apache Spark Machine Learning and GLCM

A. Ed-daoudy, K. Maalmi

ESTF, Université Sidi Mohamed Ben Abdellah, Fès, Morocco

- Efficient Approach for Parallel Machine Scheduling Problem

Fayçal BELKAID, Mohammed BENNEKROUF

University of Tlemcen, Tlemcen, Algeria

Sessions S-13: Image Processing and Computer Vision

Session Chair: Prof. Mounir HANINE, FP, Errachidia, Morocco

Room: Room 1

- Iris image analysis based on contourlet transform

N. Idrissi Zougari, L.Masmoudi, A.Roukhe

Faculty of sciences, Moulay Ismail University, Meknes, Morocco

- 3D visualization of web search results in a 3D model search engine

KASSIMI My Abdellah, Abdellatif HARIF

IBN ZOHR University, Agadir, Morocco

- Word Spotting based on Robust Features Algorithm for handwritten Arabic Documents

Noureddine El makhfi, Badraddine Aghoutane, Omar EL Bannay, El bachir Tazi

Moulay Ismail University Morocco

- Efficient Implementation of the Niederreiter Cryptosystem

Younes Bayane, Fatima Amounas, Lahcen El Bermi

Moulay Ismail University, Errachidia, Morocco.

Poster Session

- Nouveau tableau de bord pour superviser un enseignement en ligne

Zakaria Lahbi and Mohamed Sabbane

Faculte des science Meknes, Morocco

- Learning experiences using neural networks and Support vector machine (SVM)

Soumya Arach, Halima Bouden

University Abdelmalek Essaadi, Tétouan, Morocco.

- La détection des Arythmies Cardiaques par les Réseaux à Fonctions de Base Radiales

Bohra Triqui, Lamia Triqui Sari, Abdelkader Benyettou

Université de TLEMCEM, Algerie

- Reverse modeling in electrical tomography applied to the detection of metallic zones in the plain of Asdaf (Tinejdad region)

I.DAKIR, A.BENAMARA H. AASSOUMI, A.OUALLALI, Y. AIT BAHAMMOU

Abdelmalek Essaadi University, Faculty of Science, Tetouan, Moroco

- Sur le choix de l'hamiltonien de spin dans la simulation des spectres de RPE de l'ions Fe³⁺ dans les verres de phosphates

El Mostapha YAHIAOUI

Faculté des Sciences de Meknès, Université Moulay Ismail, Morocco

- Cluster-based approach and chain-based approach protocols in wireless sensor networks: Energy efficient of LEACH and PEGASIS

Hassan. Oudani, Salaheddin. Krit, Lahoucine. Elmaimouni

Polydisciplinary Faculty of Ouarzazate, Ibn Zohr University- Agadir, Morocco