2013 ACS International Conference on Computer Systems and Applications

(AICCSA 2013)

Ifrane, Morocco
27-30 May 2013

Provisional Technical Program

Monday, May 27, 2013

Fes: Hotel Fes Medina

09:00 a.m. - 12:30 p.m.　　**Tutorial 1: Introduction to Sensor Networks**
　　　　　　　　　　　　　Instructor: Dr. Dharma P. Agarwal, University of Ohio

12:30 p.m. - 2:00 p.m.　　**Lunch**

02:00 p.m. - 05:30 p.m.　　**Tutorial 2: Introduction to Multicore Architecture**
　　　　　　　　　　　　　Instructor: Dr. and Dean Hesham El-Riwini,
　　　　　　　　　　　　　University of North Dakota

Tuesday, May 28, 2013

08:30 a.m. - 09:00 a.m.　　**Opening Ceremony and Updates to Program Schedule**
　　　　　　　　　　　　　General Chair: Dr. Aris M. Ouksel, University of Illinois, Chicago

09:00 a.m. - 10:00 a.m.　　**Keynote Speech 1: QCRI – Enabling impactful research in the Middle East**
　　　　　　　　　　　　　Dr. Ahmed Elmagarmid
　　　　　　　　　　　　　Qatar Computing Research Institute
　　　　　　　　　　　　　Executive Director

10:00 a.m. - 10:20 a.m.　　**Break**

10:20 a.m. - 12:00 p.m.　　**(parallel sessions)**
　　　　　　　　　　　　　Paper Session 1: Cloud and Distributed Computing I

　　　　　　　　　　　　　David Newsom, Ahmad Anbar, Tarek El-Ghazawi and Sardar Azari. Predictive Energy Management Techniques for PGAS Programming ̈ ̈%

　　　　　　　　　　　　　Amal Alhosban, Khayyam Hashmi, Zaki Malik and Brahim Medjahed. Self-healing Framework for Cloud-based Services ̈ ̈-

　　　　　　　　　　　　　Sara Ibn El Ahrache, Badir Hassan, Parisa Ghodous and Sbihi Abderrahmane. Secure Processing of Large Scale Databases in a Cloud Computing Environment ̈ ̈%*

　　　　　　　　　　　　　Mohcine Madkour, Abdelilah Maach and Driss El Ghanami. Policy Driven Adaptation of Context-aware Services with preferences supporting ̈ ̈&$

　　　　　　　　　　　　　Paper Session 2: Networking, sensor networks, mobile computing I

　　　　　　　　　　　　　El Kamel Ali. A bayesian k-NN based scheme for QoS provisioning in IP/MPLS networks ̈ ̈&(

　　　　　　　　　　　　　Hind Alwan and Anjali Agarwal. A Cross-Layer-Based Routing with QoS-Aware Scheduling for Wireless Sensor Networks ̈ ̈' %

Juhi Srivastava and Sudarshan Tsb. Intelligent Traffic Management with Wireless Sensor¨' -

Hanen Idoudi, Fatma Somaa and Leila Azouz Saidane. Alarms Management in Wireless Body Area Networks¨('

Paper Session 3: IR, Data and knowledge management I

Ayman Taha and Ali Hadi. A General Approach for Automating Outliers Identification in Categorical Data¨(+

Rasha Bin-Thalab, Neamat El Tazi and Mohamed E. El Sharkawi.. TMIX: Temporal Model for Indexing XML Documents¨))

Teodor Tzanakakis, Ioannis Papaefstathiou and Charalampos Manifavas. Parallelizing bioinformatics and security applications on a low-cost multi-core system¨*'

Hammou Fadili. Towards a new approach of an automatic and contextual detection of meaning in text¨*+

Paper Session 4: BPM, Web Services, SOA I

Khayyam Hashmi, Amal Alhosban, Abdelmounaam Rezgui, Erfan Najmi and Zaki Malik. Automated Web Service Quality Component Negotiation using NSGA-2¨+%

Hamid Harroud, Hind Seddiki and Leila Bahri. Adaptive Service Provision in Mobile Enivronments¨+++

Mahmoud El Hamlaoui, Sophie Ebersold, Adil Anwar, Mahmoud Nassar and Bernard Coulette. A Process for Maintaining Heterogeneous Models Consistency through Change Synchronization¨,'

Youness Laghouaouta, Adil Anwar and Mahmoud Nassar. A Traceability Approach for Model Composition¨,+

Fouad Chedid. On Pattern Matching With Swaps¨-%

12:00 p.m. - 01:30 p.m.	**Lunch**
1:30 p.m. – 2:30 p.m.	**Invited Speaker: Dr. Sid Bhattarcharyya** **A Large Data Approach to Study Adoption of Social Media in Organizations**
2:45 p.m. - 04:15 p.m.	**(parallel sessions)** **Paper Session 5: Arabic/Amazigh/Farsi/Urdu language processing I**

Violetta Cavalli-Sforza and Karim Bouzoubaa. Bootstrapping a WordNet for an Arabic Dialect from Other WordNets and Dictionary Resources¨-*

Mohamed Outahajala, Lahbib Zenkouar, Yassine Benajiba and Paolo Rosso. The Development of a Fine Grained Class Set for Amazigh POS Tagging¨%$(

Fadi Zaraket and Ameen Jaber. MATAr: Morphology-based Tagger for Arabic¨%%&

Ahmed Cherif Mazari, Hassina Aliane and Zaia Alimazighi. A Conceptual

Indexing Approach for Arabic Texts ¨%%*

Paper Session 6: Security, privacy I

Muhammad Bilal, Sana Imtiaz, Wadood Abdul and Sanaa Ghouzali. Zero-steganography using DCT and Spatial domain ¨%%+

Ala Eshmawi and Suku Nair. Smartphone Applications Security: Survey of New Vectors and Solutions ¨%&(

Bilal Al Baalbaki, Youssif Al-Nashif, Salim Hariri and Douglas Kelly. Autonomic Critical Infrastructure Protection (ACIP) System ¨%&,

Said Hraoui, Faiq Gmira and Abdelrahim Saaidi. Benchmarking AES and Chaos Based Logistic Map for Image Encryption ¨% &

Paper Session 7: Semantic Web I

Zahia Marouf and Sidi Mohamed Benslimane. Fuzzy clustering-based approach to derive hierarchical structures from folksonomies ¨% *

Ali Aajli and Karim Afdel. Towards a new approach of measure of skills applied to an adaptive assessments system used in E-Learning and E-Recruitment ¨%(

Imene Bentounsi and Zizette Boufaida. Extracting candidate terms from medical texts ¨%(,

Wassim Derguech and Sami Bhiri. Modelling, Interlinking and Discovering Capabilities ¨%) &

Paper Session 8: Multimedia and Computer vision I

Noura Aherrahrou and Hamid Tairi. A new robust watermarking scheme based on PDE decomposition ¨%* $

Insaf Bellamine and Hamid Tairi. Motion Detection and Tracking using Space-Time Interest Points ¨%*)

El Aallaoui Mohamed and Gourch Abdelwahad. Spatio-temporal Segmentation with Mumford-Shah Functional ¨%+ &

Saliha Aouat. A new Indexing approach using outlines primitives ¨%+ *

04:15 p.m. - 04:45 p.m.	**Break**
04:30 p.m. - 06:00 p.m.	**Poster paper presentations**

Wednesday, May 29, 2013

AlAkhawayn University

09:00 a.m. - 10:00 a.m.	**Keynote Speech 2: Future Internet and Implications of Wireless** Dr. Dharma P. Agrawal
10:00 a.m. - 10:20 a.m.	**Break**

10:20 a.m. - 12:00 p.m.   **(parallel sessions)**
Paper Session 9: Data Quality and Integration I

João Luís Cardoso De Moraes, Wanderley Souza, Luis Ferreira Pires, Luciana Tricai Cavalini and Antonio Francisco Do Prado. A Novel Architecture for Message Exchange in Pervasive Healthcare based on the use of Intelligent Agents¨%̤$

Ilham Outahar, Elhabib Nfaoui and Omar El Beqqali. Implementing Knowledge Management in supply chain¨¨%̤,

Messaouda Fareh, Omar Boussaid and Rachid Chalal. Semantic Metadata Mediation: XML, RDF and RuleML¨%̤(

Jens Lüssem and Hakim Harrach. How to make data migration processes more efficient by using TOGAF¨&$&

Paper Session 10: Big Data, Business Intelligence, Analytics I

Hanine Mohamed, Boutkhoum Omar, Tickniouine Abdessadek and Agouti Tarik. Approach to integration SOLAP tools and Multicriteria Analysis for Spatial Decision Support¨&$,

Salim Lahmiri, Mounir Boukadoum and Sylvain Chartier. Information Fusion and S&P500 Trend Prediction¨&%(

Boutkhoum Omar, Hanine Mohamed, Tikniouine Abdessadek and Agouti Tarik. Integration approach of multicriteria analysis to OLAP systems: Multidimensional model¨&&%

Badreddine Benyacoub. credit scoring model based on Baum-Welch method¨&&)

Paper Session 11: Cloud and Distributed Computing II

Radhya Sahal, Sherif Khattab and Fatma Omara. GPSO: An Improved Search Algorithm for Resource Allocation in Cloud Databases¨&'$

Yacine Kissoum, Ramdane Maamri and Zaidi Sahnoun. Towards Modeling and Verification of Smart Homes¨&',

Anir Benlachgar and Fatima-Zahra Belouadha. Review of Software Product Line Models Used to Model Cloud applications¨&()

Yassine Toufique, Rajaa Cherkaoui El Moursli, Mohammed Kaci, Abderrahman El Kharrim and Redouane Merrouch. A Benchmark of clinical PET using GATE simulation on the computing Grid¨&(-

Paper Session 12: Networking, sensor networks, mobile computing II

Magdy Ahmed, Ahmed Aly and Mohamed Elderini. Maximizing Energy Utilization of Routing In Wireless Sensor Networks¨&)'

Yang Chi and Dharma Agrawal. Network Locality in Wireless Networks¨&*%

Lahby Mohamed, Abdellah Adib and Cherkaoui Leghris. Novel Validation Approach For Network Selection Algorithm by Applying The Group MADM¨&*-

Houaidia Chiraz, Van Den Bossche Adrien, Idoudi Hanen, Val Thierry and Saidane Leila. Link Availability Aware Routing Metric For Wireless Mesh¨¨&+'

Networks

Arres Billel, Boussaid Omar and Kabachi Nadia. Building OLAP cubes on a Cloud Computing environment with MapReduce¨¨&++

| 12:00 p.m. - 01:30 p.m. | **Lunch** |

| 1:30 p.m. – 2:30 p.m. | **Invited speaker: Dr. Esma Aimeur**
Privacy and Internal Personal Data Collection |

2:45 p.m. - 04:15 p.m.

(parallel sessions)
Paper Session 13: IR, Data and knowledge management II

Ghazi Al-Naymat. GCG: Mining Maximal Complete Graph Patterns from Large Spatial Data¨¨&, &

Mohammad Alomari. Serializable executions with Snapshot isolation and Two-Phase Locking: Revisited¨¨&- $

Ines Berrazega and Rim Faiz. Identifying Temporal Relations between Main Events in News Articles¨¨&-,

Sana Hamdi, Malek Ben Salem, Emna Bouazizi and Rafik Bouaziz. Management of the Real-Time Derived Data in a Distributed Real-Time DBMS Using the Semi-Total Replication Data¨¨ $&

Paper Session 14: BPM, Web Services, SOA II

Hatim Guermah, Fissaa Tarik, Hatim Hafiddi, Mahmoud Nassar and Abdelaziz Kriouile. Context Modeling and Reasoning for building Context Aware Services¨¨ $*

Boukhedouma Saida, Oussalah Mourad, Alimazighi Zaia and Tamzalit Dalila. Flexible Loosely Coupled Inter-organizational Workflows Using SOA¨¨ %

Hanae Sbai, Mounia Fredj and Laila Kjiri. To trace and guide evolution in configurable process models¨¨ &%

Meriem Benhaddi, Karim Baïna and El Hassan Abdelwahed. SOA for the Masses : End Users as Services Composers¨¨ &)

Paper Session 15: Multimedia and Computer vision II

Moayad Aloqaily, Fatna Belqasmi, Roch Glitho and Amin Hammad. Multiparty/Multimedia Conferencing in Mobile Ad Hoc Networks for Improving Communications between Firefighters¨¨ &-

Fattah Zirari, Abdellatif Ennaji, Stephane Nicolas and Driss Mammass. A simple text/graphic separation method for document image segmentation¨¨ ' *

Hazar Mliki, Nesrine Fourati, Souhaïl Smaoui and Mohamed Hammami. Automatic Facial Expression Recognition System¨¨ ($

Abderrahim Maizate and Najib El Kamoun. Enhanced Passive Clustering Based on Distance and Residual Energy for Wireless Sensor Network¨¨ ((

Paper Session 16: Arabic/Amazigh/Farsi/Urdu language processing II

Fattah Zirari, Abdellatif Ennaji, Stephane Nicolas and Driss Mammass. A methodology to spot words in historical arabic documents¨') &

Riadh Belkebir and Ahmed Guessoum. A Hybrid BSO-Chi2-SVM Approach to Arabic Text Categorization¨') *

Rim Koulali, Mahmoud El-Haj and Abdelouafi Meziane. Arabic Topic Detection using Automatic Text Summarisation¨' *'

Alia Morsi and Ahmed Rafea. Studying the Impact of Various Features on the Performance of Conditional Random Field-based Arabic Named Entity Recognition¨' * +

04:15 p.m. - 04:45 p.m.   **Break**

04:30 p.m. - 05:30 p.m.   **Poster**

Thursday, May 30, 2013

Fes, Hotel Fes Medina

09:00 a.m. - 10:00 a.m.   **Keynote Speech 3: Cloud assurance: the notion and the issues**
                           Dr. Ernesto Damiani

10:00 a.m. - 10:20 a.m.   **Break**

10:20 a.m. - 12:00 p.m.   **(parallel sessions)**
                           Paper Session 17: Big Data, Business Intelligence, Analytics II

Anass Bensrhir. Big Data for Geo-political Analysis: application on Barack Obama's remarks and speeches¨' +&

Nawal Sael, Abdelaziz Marzak and Hicham Behja. Web Usage Mining: Data Preprocessing and Multi Level analysis on Moodle¨' +*

Fatima Ezzahra Sloukia, Mohammed El Aroussi, Hicham Medromi and Mohammed Wahbi. Bearings Prognostic using Mixture of Gaussians Hidden Markov Model and Support Vector Machine¨' ¸ '

Elmansouri Rachid, Elbeqqali Omar and Ziati Elhoussaine. Normed principal components analysis: a new approach to data warehouse fragmentation¨' ¸ +

Paper Session 18: Cloud and Distributed Computing III

Hazem Morsy and Hesham El-Rewini. Adaptive Scheduling in a Mobile Ad-Hoc Grid for Time-Sensitive Computing¨' - %

Rim Moussa. Benchmarking Data Warehouse Systems in the Cloud¨' - -

Salek Riadi, Driss El Ghanami and Abdelilah Maach. An Efficient Burst Cloning Scheme for Optical Burst Switching over Star Networks¨' ($+

Paper Session 19: Networking, sensor networks, mobile computing III

Slaheddine Chelbi, Claude Duvallet, Majed Abdouli and Rafik Bouaziz.

Multi-Hop Energy Efficient Routing Protocol Based on Data Controlling for Wireless Sensor Networks¨¨(%%

El Khadiri Karim and Qjidaa Hassan. A low noise, high PSR low-dropout regulator for low-cost portable electronics¨¨(%+

Abdelkader Dekdouk. Energy efficient oriented mobile learning that emphasizes energy saving awareness education¨¨(&&

Touil Hicham, Fakhri Youssef and Benattou Mohammed. Contention Window MAC Parameters Tyning for Wireless Multimedia Sensor Networks¨¨(&*

Paper Session 20: IR, Data and knowledge management III

Asrin Mohammadi. Building a Test Collection for Sorani Kurdish¨¨(' $

Rim Faiz and Sondess Missaoui. Context Filtering Process for Mobile Web Search¨¨(' +

Faiza Belbachir, Khadidja Henni and Lynda Zaoui. Automatic detection of gender on the blogs¨¨(()

12:00 p.m. **Adjourn**

Poster Sessions

Comparative Performance Study Between Spectral Subrratction and Discreet Wavelet Transform for Speech Enhancement¨¨((-

CHANNEL CAPACITY MAXIMIZATION IN MIMO-SDMA BASED COGNITIVE NETWORKS¨¨() $

Mobile Cloud Computing: Current Development And Research Challenges¨¨()(

Recognition of partially occulted objects¨¨())

AutomatedSelf-healingFrameworkforService-OrientedSystems¨¨() *

A Novel Model for Document Representation¨¨(*&

Contactless˙hand˙detection˙in˙complex˙image˙based˙on˙data-mining˙process¨¨(*(

Context Extraction from Reviews for Context Aware Recommendation Using Text Classification Techniques¨¨(*)

An Efficient Wireless Sensor Network-based Water Quality Monitoring System˙(*+

Analysis and Mastering the Data Migration Challenge for SAP FS-PM System Environments¨¨(+%

A˙joint˙Scheme˙for˙Secure˙and˙Reliable˙Communication˙in˙Wireless˙Sensor˙Networks˙¨(+&

Novel Signal Representation of Descriptors Dependency in Information