14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017

Oct 30th to Nov 3rd, 2017.

Hammamet, Tunisia.

THE UNIVERSITY OF ARIZONA

UNIVERSITÉ CENTRALE
HONORIS UNITED UNIVERSITIES

IEEE computer society

IEEE

Arab Computer Society

Qatar Computing Research Institute
Member of Qatar Foundation

ATIA

wevioo
INSPIRED SOLUTIONS

TUNISIE INNOVATION
LE PORTAIL TUNISIEN DE L'INNOVATION

14th ACS/IEEE International Conference on Computer Systems and Applications
AICCSA 2017 October 30th to November 3rd, 2017

Final Program

Time	Monday 30-oct	TUESDAY 31-oct	WEDNESDAY 01-nov	THURSDAY 02-nov	FRIDAY 03-nov
08:00 - 17:00		On site registration	On site registration	On site registration	On site registration
08:30 - 09:00		Opening & Welcome			
09:00 - 10:00		Keynote speaker 1 - Pr Manish Parashar - Computing in the Continuum: Harnessing a Pervasive Data Ecosystem (K)	Keynote speaker 2 - Pr. Fakhri Karray - IA & Mobility (K)	Keynote speaker 3 -Pr. Salima Hassas - Transforming Big Data into Services (K)	Keynote speaker 4 - Pr. Jaime Lloret - Architectures and systems for eHealth monitoring (K)
10:00 - 10:30		Coffee break	Coffee break	Coffee break	Coffee break
10:30-12:30		Track 1 session 1 (R); Track 2 session 1 (O); Track 3 session 1 (S); Track 4 session 1 (K); Track 6 Session 1 (E)	Track1 session 3 (R); Track 2 session 2 (E); Track 3 session 3 (O); Track 7 Session 2 (S); Track 8 Session 1 (K)	Track 6 Session 3 (R); Track 8 Session 3 (E); Track 3 session 4 (S); Track 11 session 2 (O); Track 10 Session 1 (K)	Track 3 session 5 (K); Track 2 session 3 (E); Track 7 Session 5 (O); Track 12 session 2(S); Research Session (R)
12:30 - 13:30	On site registration	Lunch	Lunch	Lunch	Lunch
13:30 - 14:30	Workshop OSNT (S); Workshop ANLP (O); Workshop BSDN (E); Workshop DSC & BSDN (R)	Track 5 Session 1 (R); Track 7 Session 1 (O); Track 3 session 2 (S); TUTO 1 Ontology (K); CIMN Session1 (E)	POSTERS & DEMOS SESSION (K); Special Session 1 (E); Track 12 session 1 (O); TUTORIAL 2 Rest Services (R); Track 11 session 1 (S)	TUTO3 Cybersecurity (R); Track 5 Session 2 (E); Track 7 Session 3 (O); CIMN session 4 (S); Industrial session (K)	Special Session 2 (K); Special Session 3 (E); Special Session 4 (O); Special Session 5 (S); Research Session (R)
14:30 - 15:30					
15:30 - 16:00		Coffee break		Coffee break	Conference Closing (K)
16:00 - 17:30	Welcome reception	Track1 session 2 (R); Track 6 session 2 (O); Track 4 session 2 (S); TUTO 1 Ontology (K); CIMN Session 2 (E)	Track 8 session 2 (S); PhD Sympusium (E); Track 9 session 1 (O); TUTO Rest Services (R); CIMN session 3 (K)	TUTO 3 Cybersecu (R); PANEL Discussion session (K); Track 7 Session 4 (E)	Research Session (R)
17:30 - 18:00	On site registration				
19:30 - 23:00				GALA DINNER	

Tutorial 1	Arabic Ontology Engineering - Mustafa Jarrar, Mounira Harzallah & Hedi Karray	
Tutorial 2	Semantically driven RESTful service composition - Michael Mrissa	
Tutorial 3	Cybersecurity & Internet Governance: Issues, Novel threats & trends - Belhassen Zouari	

CIMN: The 1st International Symposium on " Computing, Informatics, Multimedia & Networking"

Special session on "Information Computing, Networking, and Security"

Research Session: Training course on research writing: publishing in high impact journals - **Prof. Athman Bouguettaya**, University of Sydney, Australia

Track 4 session 1: Invited talk - M2M service architectures for the IoT - Dr. Khalil DRIRA, LAAS - CNRS Laboratory, Toulouse, France

ROOMS		
plenary room	KHALIFA	(K)
Room 1	L'EMIR	(R)
Room 2	Le OIZIR	(O)
Room 3	Le SULTAN	(S)
Room 4	ETTEJ	(E)

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

Monday 30-Oct -2017		
12:30 - 17:00		Onsite registration
13:30-16:00	Workshop OSNT (Sultan)	**Workshop Online Social Networks Technologies** Chair: Dr. Muder Almi'ani • Manal Abdo Farhan Saif, Ahmed Tlili, Fathi Essalmi and Mohamed Jemni. Facebook as a learning tool in classrooms: A case study • Amina Amara, Mohamed Ali Hadj Taieb and Mohamed Ben Aouicha. Identifying i-bridge across online social networks • Samiha El Hamali, Latifa Mahdaoui and Srikanth Podatharapu. Using Social Networks to Improve Processes in Business Education: A Study Case
	Workshop ANLP (OIZIR)	**Workshop Arabic Natural Language Processing** Chair: Prof. Ashraf Elnagar • Ahmed Omer and Michael Oakes. Arud, the Metrical System of Arabic Poetry, as a Feature Set for Authorship Attribution • Houcemeddine Turki, Denny Vrandečić, Helmi Hamdi and Imed Adel. Using WikiData to create a multi-lingual multi-dialectal dictionary for Arabic dialects • Ashraf Elnagar, Omar Einea and Leena Lulu. Comparative Study of Sentiment Classification for Automated Translated Latin Reviews into Arabic • Diab Abuaiadah, Dileep Rajendran and Mustafa Jarrar. Clustering Arabic Tweets for Sentiment Analysis
	Workshop BSDN (ETTEJ)	**Workshop Big Data and Social Networking Management and Security** Chair: Dr. Mohammad Alsmirat • Olfa Mannai, Rabie Becheikh, Rhouma Rhouma and Safya Belghith. A Novel Family of Strong S-box Based on Ikeda Map and T-function • Asma Chader, Hamid Haddadou and Walid Khaled Hidouci. All friends are not equal: weight-aware egocentric network-based user profiling. • Hussein Y. AbuMansour. Proposed bio-Authentication system for Question Bank in Learning Management systems.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

		• Benhur Bakhtiari Bastaki, Tomasz Bosakowski and Elhadj Benkhelifa. Intelligent Assisted Living Framework for Monitoring Elders. • José Marín, Javier Rocher, Lorena Parra, Sandra Sendra, Jaime Lloret and Pedro V. Mauri. Autonomous WSN for Lawns Monitoring in Smart Cities.
	Workshop DSC & BSDN (EMIR)	**Workshop Data Science and Computing** Chair: Prof. Nadjia Benblidia
		• Menzou Ayoub, Taferhit Feriel, Benblidia Nadjia and Mezzi Melyara. Proposition of a Smart Office Automation System based on Internet of Things Concepts • Mohammad A. Alsmirat, Ethar Qawasmeh, Mahmoud Al-ayyoub, Nour Alhuda Damer, and Yaser Jararweh. Building an Image Database for Studying Image Retargeting • Bernard Jansen, Soon-Gyo Jung, Joni Salminen, Jisun An and Haewoon Kwak. Leveraging Social Analytics Data for Identifying Customer Segments for Online News Media • Jing Yu, Xiaomei Liu, Yanbing Liu and Yue Hu. Multiple Pattern Graph Correlations for Efficient Graph Pattern Matching
16:00 - 17:30	Welcome Reception	

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

Tuesday 31-Oct -2017		
08:00 - 17:00		Onsite registration
08:30 - 09:00		Opening & Welcome
09:00 - 10:00		Keynote speaker 1: Computing in the Continuum: Harnessing a Pervasive Data Ecosystem By Prof. Manish Parashar Chair: Prof. Salim Hariri (KHALIFA)
10:00 - 10:30		Coffee break
10:30-12:30	Track 1 session 1 (EMIR)	**Chair: Prof Philippe LERAY**
		• Wiem Zouari, Ines Alaya and Moncef Tagina. A Hybrid Ant Colony Algorithm with a Local Search for the Strongly Correlated Knapsack Problem. • Sana Hamdi, Emna Bouazizi and Sami Faiz. A Speculative Concurrency Control in Real-Time Spatial Big Data Using Real-Time Nested Spatial Transactions and Imprecise Computation. • Chayma Amri, Mariem Bambia and Rim Faiz. Behavior-Based Approach for User Interests Prediction. • Rim Dridi, Saloua Zammali and Khedija Arour. Fuzzy Rule-Based Situational Music Retrieval and Recommendation.
	Track 2 session 1 (OIZIR)	**Chair: Dr. Khouloud Boukadi**
		• Imen Ben Fradj, Yousra Bendaly Hlaoui and Leila Jemni Benayed. A Model Driven Approach for Modelling and Running Flexible Cloud Service Workflows. • Luis Felipe Bilecki and Adriano Fiorese. A Trust Reputation Architecture for Cloud Computing Environment. • Houda Khlif, Hatem Hadj Kacem, Saul Pomares Hernandez and Ahmed Hadj Kacem. A Validation Approach for Quasi-Synchronous Checkpointing Algorithms in HPC Systems. • Wiem Housseyni, Olfa Mosbahi and Mohamed Khalgui. Adaptive Task Mapping And Scheduling For Reconfigurable Distributed Embedded Energy Harvesting Systems.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

	Track 3 session 1 (SULTAN)	**Chair: Prof. Nadjia Benblidia**
		• Fatma Najar, Sami Bourouis, Nizar Ouguiya and Safya Belghith. A comparison between different Gaussian-based Mixture Models. • Ameni Filali, Chiraz Jlassi and Najet Arous. A Hybrid Collaborative Clustering Using Self-Organizing Map. • Amira Soudani and Ezzeddine Zagrouba. Adaptive region based active contour model for image segmentation. • Oussama Zayene, Soumaya Essefi Amamou and Najoua Essoukri Ben Amara. Arabic Video text Recognition based on Multi-dimensional recurrent neural networks.
	Track 4 session 1 (KHALIFA)	**Chair: Prof. Michael Mrissa**
		• **Invited Talk**: Khalil DRIRA. M2M service architectures for the IoT • Hajer Taktak and Faouzi Moussa. Context-aware ServUI: A Conceptual Method for User Interfaces and Associated Services Generation. • Wided Mathlouthi and Narjès Bellamine Ben Saoud. Cost-efficient composition of System of Systems on a federated cloud environment. • Anh Toan Bui Long, Yassine Ouhammou and Emmanuel Grolleau. Leveraging Real-Time Network Analyses by Extending a Model-based Framework.
	Track 6 session 1 (ETTEJ)	**Chair: Dr. Mahdi Zargayouna**
		• Asma Mansour and Zied Lachiri. A comparative study in emotional speaker recognition in noisy environment. • Mohamed Salim Amri Sakhri, Mounira Tlili and Ouajdi Korbaa. A Hybrid Genetic Algorithm for the Inventory Routing Problem. • Madiha Harrabi, Olfa Belkahla Driss and Khaled Ghedira. A Multi-Agent Model based on Hybrid Genetic Algorithm for Job Shop Scheduling problem with Generic Time Lags. • Nesrine Khabou and Ismael Bouassida Rodriguez. Analysis Approach for Designing and Developing Context-Aware Applications: Application to a Smart Building case study.
12:30 - 13:30	Lunch	
13:30 - 17:30	TUTORIAL Arabic Ontology Engineering By Mustafa Jarrar, Mounira Harzallah & Hedi Karray (KHALIFA)	

6

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

13:30-15:30	Track 5 session 1 (EMIR)	**Chair: Prof Ali Jaoua** • Fawaz Al-Anzi and Dia Abuzeina. A Micro-Word Based Approach for Arabic Sentiment Analysi. • Chiraz Ben Othmane Zribi and Béchir Baghouli. A syntactico-semantic method for Arabic Collocations Extraction. • Bechikh Ali Chedi, Hatem Haddad and Yahya Slimani. Billingual Formal Concept Analysis for Cross-Language Information Retrieval. • Saoussen Mathlouthi Bouzid, Fériel Ben Fraj Trabelsi and Chiraz Ben Othmane Zribi. How to combine salience factors for Arabic Pronoun Anaphora Resolution. • Nada Farhani, Naim Terbeh and Mounir Zrigui. Image to Text Conversion: State of the Art and Extended Works.
13:30-15:30	Track 7 session 1 (OIZIR)	**Chair: Prof. Salim Hariri** • Amina Gharsallah, Nouri Omheni, Khouloud Ghanmi, Faouzi Zarai and Mahmoud Neji. A Seamless Mobility Mechanism for V2X Communications. • Ghada Glissa and Aref Meddeb. A security analysis of LOADng routing protocol. • Souhir Feki and Faouzi Zarai. Cell Performance-Optimization Scheduling Algorithm using Reinforcement Learning for LTE-Advanced Network. • Islam Elleuch, Achraf Makni and Rafik Bouaziz. Cooperative Intersection Collision Avoidance System Based on Vehicle-to-Vehicle Communication and Real-Time Databases. • Cheima Béjaoui, Alexandre Guitton and Abdennaceur Kachouri. Efficient data for monitoring rice field based on WMSN.
13:30-15:30	Track 3 session 2 (SULTAN)	**Chair: Prof. Nadjia Benblidia** • Bassem Bouaziz, Jihen Amara and Walid Mahdi. Content video browsing based on text regions extraction and classification using Convolutional Neural Network. • Rahma Kalboussi, Aymen Azaza, Mehrez Abdellaoui and Ali Douik. Detecting video saliency via local motion estimation. • Abir Fathallah, Lotfi Abdi and Ali Douik. Facial Expression Recognition via Deep Learning. • Mohamed Hedi Ghaddab, Khaled Jouini and Ouajdi Korbaa. Fast and Accurate Fingerprint Matching using Expanded Delaunay Triangulation. • Hela Haj Mohamed, Samir Belaid, Wady Naanaa and Lotfi Ben Romdhane. Content-based retrieval of 3D non rigid object with sparse representations and local feature descriptors: A comparative study.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

13:30-15:30	CIMN Session1 (ETTEJ)	**Chair: Prof Lotfi Ben Romdhane** • Ahmed Fradi, Borhene Louhichi and Mohamed Ali Mahjoub. 3D object retrieval based on similarity calculation in 3D Computer Aided Design systems. • Ilhame Ait Lbachir, Imane Daoudi, Rachida Es-Salhi and Saadia Tallal. A new mammogram preprocessing method for Computer-Aided Diagnosis systems. • Adriel Araújo, Roger Resmini, Aura Conci, Anselmo Montenegro, Claudinéia Araújo and Frédéric Lebon. Computer Aided Diagnosis for Breast Diseases Based on Infrared Images. • Wafa Lejmi, Mohamed Ali Mahjoub and Anouar Ben Khalifa. Fusion Strategies for Recognition of Violence Actions.
15:30 - 16:00	Coffee break	
16:00 - 17:30	Track1 session 2 (EMIR)	**Chair: Prof. Henda Ben Ghezala** • Ameni Kacem Sahraoui and Rim Faiz. Time-sensitivity for Personalized Search. • Marwah Alian, Ghazi Al-Naymat and Banda Ramadan. Using Transliteration with Entity Resolution for Arabic Datasets. • Rahma DJIROUN , Meriem Amel GUESSOUM, Kamel BOUKHALFA and Elhadj BENKHELIFA. A Novel Cloud Services Recommendation System Based on Automatic Learning Techniques.
16:00 - 17:30	Track 6 session 2 (OIZIR)	**Chair: Prof. Bernard Archimed** • Olfa Harrabi, Jouhaina Chaouachi and Hend Bouziri. On solving exactly and approximately the Sum Coloring of graphs. • Marwa Gam, Mohamed Boubaker, Najoua Chalbi and Mohamed Hédi Bedoui. Parallelism hardware computation for Artificial Neural Network. • Siyakha N. Mthunzi enad Elhadj Benkhelifa. Survivability Analogy for Cloud Computing.
16:00 - 18:00	Track 4 session 2 (SULTAN)	**Chair: Dr. Lamia Elabed** • Asma Hachemi and Mohamed Ahmednacer. Software Process Patterns: A roadmap. • Narjess Bessghaier and Makram Soui. Towards Usability Evaluation of Hybrid User Interfaces. • Stanley Ewenike, Elhadj Benkhelifa and Claude Chibelushi. Cloud Based Collaborative Software Development: A Review, Gap Analysis and Future Directions.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017 October 30th to November 3rd, 2017

Final Program

		• Mariam Chaabane and Ismael Bouassida Rodriguez. Mining Approach for Software Architectures' Description Discovery
16:00 - 18:00	CIMN session 2 (ETTEJ)	**Chair: Dr. Anja Habacha & Dr. Olfa Belkahla Driss**
		• Rigane Omar, Abbes Karim, Abdelmoula Chokri and Masmoudi Mohamed. A Fuzzy Based Method for Driver Drowsiness Detection. • Emna Ammar Elhaj Amor and Sonia Ayachi Ghannouchi. Toward an Ontology-based model of key performance indicators for business process improvement. • Sabrine Amri and Zaki Brahmi. Inter-VM Interference in Cloud Environments: A survey. • Ibtissem Wali, Taheni Damak, Amina Kessentini, Mohamed Ali Ben Ayed and Nouri Masmoudi. Statistical Study of SHVC depth partitioning and mode selection for Intra only configuration.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

Wednesday 01-Nov		
08:00 - 17:00		Onsite registration
09:00 - 10:00		Keynote speaker 2 - Pr. Fakhri Karray- IA & Mobility Chair: Prof. Athman Bouguettaya (KHALIFA)
10:00 - 10:30		Coffee break
10:30-12:30	Track1 session 3 (EMIR)	**Chair: Prof. Manish Parashar** • Mohamed Aymen Ben Hajkacem, Chiheb Eddine Ben N'Cir and Nadia Essoussi. KP-S: A Spark-based Design of the K-Prototypes Clustering for Big Data. • Abir Gorrab, Ferihane Kboubi, Bénédicte Le Grand and Henda Ben Ghezala. New hashtags' weighting schemes for Hashtag and User Recommendation on Twitter. • Rania Mkhinini Gahar, Olfa Arfaoui, Minyar Sassi Hidri and Nejib Ben Hadj Alouane. ParallelCharMax: An Effective Maximal Frequent Itemset Mining Algorithm Based on MapReduce Framework. • Afef Ben Brahim and Alexandros Kalousis. Semi supervised relevance learning for feature selection on high dimensional data
10:30-12:30	Track 2 session 2 (ETTEJ)	**Chair: Prof. Chirine Ghedira** • Yomna Ben Jmaa, Rabie Ben Atitallah and Maher Ben Jemaa. An Optimized Software Radio Application using a Dynamic Slack Reclamation Technique on a Real Platform OMAP 3530. • Rima Grati and Khouloud Boukadi. Business Adaptation For BPaaS using Fuzzy Logic Systems. • Hela Malouche, Youssef Ben Halima and Henda Ben Ghezala. Enterprise Preparation For Cloud Migration: Assessment Phase • Mahfoudhi Ryma, Zaher Mahjoub and Sami Achour. High Performance Recursive LU Factorisation for Multicore Systems. • Ameni Hbaieb, Mahdi Khemakhem and Maher Ben Jemaa. Using Decomposition and Local Search to Solve Large-scale Virtual Machine Placement Problems with Disk Anti-colocation Constraints.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

10:30-12:30	Track 3 session 3 (OIZIR)	**Chair: Dr. Mohammad Alsmirat** • Rafika Ben Salem and Karim Saheb Ettabaa. Fuzzy C-mean for unsupervised spectral-spatial SVM classification of hyperspectral images. • Manel Fourati, Anis Jedidi and Faiez Gargouri. Generic descriptions for movie document: An Experimental Study. • Sana Fakhfakh and Yousra Benjemaa. Hand and wrist localization approach for features extraction in Arabic Sign Language recognition. • Amira Oueslati, Nadia Feddaoui and Kamel Hamrouni. Identity Verification through Dorsal Hand Vein Texture based on NSCT coefficients.
10:30-12:30	Track 7 Session 2 (SULTAN)	**Chair: Dr. Akram Hakiri** • Naama Amdouni and Taoufik Aguili. Efficient QoT-Aware Rerouting Algorithm for Differentiated Services in WDM Transparent Networks provisioned with Set-up Delay Tolerance. • Rihab Maaloul, Lamia Chaari and Bernard Cousin. Equal Cost Multiple Path Energy-Aware Routing in Carrier-Ethernet Networks with Bundled Links. • Abdelwahed Berguiga and Habib Youssef. FPMIPv6-S: A new mobility management protocol for Wireless Sensor Networks. • Maroua Meddeb, Amine Dhraief, Abdelfettah Belghith, Thierry Monteil and Khalil Drira. How to cache in ICN/IoT environments? • Abdelbari Ben Yagouta, Maher Jabberi and Bechir Ben Gouissem. Impact of Sink Mobility on Quality of Service Performance and Energy Consumption in Wireless Sensor Network with Cluster Based Routing Protocols.
10:30-12:30	Track 8 Session 1 (KHALIFA)	**Chair: Prof. Belhassen Zouari** • Arij Ben Amor, Mohamed Abid and Aref Meddeb. A Privacy-Preserving Authentication Scheme in an Edge-Fog Environment. • Amel Meddeb, Nesrine Meddeb and Mohamed Ali Ben Ayed. An enhanced Multilevel Authentication protocol for VANETs. • Samira Bader and Najoua Essoukri Ben Amara. Design of a 3D Virtual World to Implement a Logical Access Control Mechanism Based on Fingerprints. • Sirine Sayadi, Tarek Abbes and Adel Bouhoula. Detection of Covert Channels over ICMP Protocol. • Safa Saoudi, Souheib Yousfi and Riadh Robbana. Elliptic Curve Cryptography on E-passport Authentication Protocol.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

12:30 - 13:30		Lunch
13:30 - 17:30		TUTORIAL Semantically driven RESTful service composition By Prof. Michael Mrissa (EMIR)
13:30 - 15:30		POSTERS SESSION (See page 18) Chair: Dr. Mahdi Zargayouna & Prof. Jaime Lloret (Judging for Best Poster) (KHALIFA)
13:30-15:30	Track 12 session 1 (OIZIR)	**Chair: Dr. Mustafa Jarrar** • Saoussen Bel Hadj Kacem. A new approximate reasoning for multi-bases symbolic data. • Mohamed Frikha, Mohamed Mhiri and Faiez Gargouri. Using Social Interaction Between Friends in Knowledge-based Personalized Recommendation. • Safa Ben Ayed, Zied Elouedi and Eric Lefèvre. ECTD: Evidential Clustering and case Types Detection for case base maintenance. • Ahlem Rhayem, Mohamed Ben Ahmed Mhiri and Faiez Gargouri. HealthIoT Ontology for Data Semantic Representation and Interpretation Obtained from Medical Connected Objects.
13:30-15:30	Track 11 session 1 (SULTAN)	**Chair: Prof. Jaime Lloret** • Wiem Ben Khalifa, Dalila Souilem-Boumiza and Mahmoud Neji. An Evaluation system of students (applied in primary school in Tunisia) • Kalthoum Rezgui, Hédia Mhiri and Khaled Ghédira. An ontology-based multi-level semantic representation model for learning objects annotation. • Mouna Denden, Ahmed Tlili, Fathi Essalmi and Mohamed Jemni. Educational gamification based on personality. • Harchay Ahlem, Cheniti-Belcadhi Lilia and Braham Rafik. MobiSWAP: Personalized Mobile Assessment Tool Based on Semantic Web and Web Services. • Mayara Khadhraoui, Hatem Belaaj, Jihene Maatoug and Mohamed Jmaiel. Tools of epidemiologic research protocol creation : A survey

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

13:30-15:30	Special Session 1 (ETTEJ)	**Chair: Prof Bernard Archimede**
		• Jalel Eddine Hajlaoui, Mohamed Nazih Omri and Djamal Benslimane. Performance and scalability Appraisal of four Directed Weighted Graph Matching Algorithms: A Survey.
		• Aida Boudhaouia, Belhassen Mazigh and Ezzine Missaoui. A formal specification and verification of normative multi-agent systems by DisCSP.
		• Hichem Dabbèchi, Nahla Haddar, Mounira Ben Abdallah and Kais Haddar. A Unified Multidimensional Data Model From Social Networks For Unstructured Data Analysis.
		• Seifeddine Mechti, Maryam Elamine, Lamia Hadrich Belguith and Rim Faiz. Hybrid Method for Multilingual Automatic Grouping of Writing Styles.
		• Ibtihel Rebhi and Dhafer Malouche. Decision making about products development through consumer preferences modeling based on descriptive characteristics of products
15:30 - 16:00	Coffee break	
16:00 - 17:00	PhD Forum Session (See page 19) Chair: Prof. Athman Bouguettaya & Dr. Anja Habacha (ETTEJ)	
16:00 - 18:00	Track 8 session 2 (SULTAN)	**Chair: Prof. Salim Hariri**
		• Abdeljalil Agnaou, Anas Abou El Kalam and Abdellah Ait Ouahman. Towards a collaborative architecture of Honeypots.
		• Sarra Naoui, Mohamed Elhoucine Elhdhili and Leila Azouz Saidane. Trusted Third Party Based Key Management for enhancing LoRaWAN Security.
		• Ben Ameur Sirine, Smaoui Salima and Zarai Faouzi. Visiting Mobile Node Authentication Protocol for Proxy MIPv6-Based NEtwork Mobility.
		• Salma Dammak, Faiza Ghozzi and Faiez Gargouri. A classification procedure for NVD vulnerabilities to secure ETL processes – UPDATED: Matching Procedure for NVD Vulnerabilities to Secure ETL Processes Steps.
		• Fatma Hendaoui, Hamdi Eltaief and Habib Youssef. FID: Fuzzy Based Intrusion Detection for Distributed Smart Devices.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

16:00 - 17:30	Track 9 session 1 (OIZIR)	**Chair: Dr. Muder Almi'ani** • Nesrine Hafiene and Wafa Karoui. A new structural and semantic approach for identifying influential nodes in social networks • Nourhene Khediri and Wafa Karoui. Community Detection in Social Network with Node Attributes based on Formal Concept Analysis. • Abdulrahman, R.A. and Benkhelifa, Elhadj. A Systematic Literature Review on Mobile Learning for Nursing Education in Kingdom of Saudi Arabia
16:00 - 18:00	CIMN session 3 (KHALIFA)	**Chair: Dr. Khouloud Boukadi** • Majed Bouchahma, Walid Barhoumi, Wanglin Yan and Hamood Al Wardi. Optical-flow-based approach for the detection of shoreline changes using remote sensing data. • Houda Hakim Guermazi and Ahlem Riahi. Quality Management Services and Image Registration: Case of images technology in health services using a management outliers approach. • Fatma Ben Aissa, Mohamed Sakkari, Ridha Ejbali and Mourad Zaied. Unsupervised Features extraction using a Multi-View Self Organizing Map for image classification • Aljia Bouzidi, Nahla Haddar, Mounira Ben Abdallah and Kais Haddar. Deriving use case models from BPMN models

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

		Thursday 02 Nov
08:00 - 17:00		Onsite registration
09:00 - 10:00		Keynote speaker 3 -Pr. Salima Hassas - Transforming Big Data into Services Chair: Prof. Khaled Ghedira (KHALIFA)
10:00 - 10:30		Coffee break
10:30 - 12:30	Track 3 session 4 (SULTAN)	**Chair: Prof. Lotfi Ben Romdhane** • Elhem Techini, Zied Sakka and Medsalim Bouhlel. Robust Features based on MVA and HEQ post-processing for Arabic Speech Recognition. • Mariem Taktak, Slim Triki and Anas Kamoun. SAX-based representation with longest common subsequence dissimilarity measure for time series data classification. • Dhekra El Hamdi, Ines Elouedi, Mai Nguyen and Atef Hammouda. The generalized multi scaled Radon transform and application on objects classification. • Deepanwita Datta, Prasad Suresh Nakhate, Sanjay K. Singh and C Ravindranath Chowdary. Why stop there? A novel Hill Climbing based approach towards multimodal classification. • Rami Alkhawaji, Mohamed Sedky AND Abdel-Hamid Soliman. Illegal Parking Detection using Gaussian Mixture Model and Kalman Filter.
10:30 - 12:30	Track 6 Session 3 (EMIR)	**Chair: Prof. Fakhri Karray** • Derouiche Abir, Layeb Abdeslem and Habass Zineb. Application of Chemical Reaction Optimization Metaheuristic for Association Rule Mining – UPDATED: Chemical Reaction Optimization Metaheuristic for Solving Association Rule Mining Problem. • Bilel Marzouki, Olfa Belkahla Driss and Khaled Ghédira. Decentralized Tabu Searches in Multi Agent system for Distributed and Flexible Job shop Scheduling Problem. • Safa Ben Salah, Imtiez Fliss and Moncef Tagina. Echo state network & Particle Swarm Optimisation for prognostics of a complex system. • Manel Hajjem, Hend Bouziri, El-Ghazali Talbi and Khaled Mellouli. Intelligent Indoor Evacuation Guidance System Based On Ant Colony Algorithm

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

10:30 - 12:30	Track 8 Session 3 (ETTEJ)	**Chair: Prof. Salim Hariri** • Amal Hadri, Khalid Chougdali and Raja Touahni. Identifying intrusions in computer networks using Robust Fuzzy PCA. • Rafael Weingärtner, Pedro Henrique Pereira Martins, Ivan Luiz Salvadori, Carla Merkle Westphall and Frank Siqueira. Improving OpenID Connect federation's interoperability with web semantics. • Ömer Aslan and Refik Samet. Investigation of Possibilities to Detect Malware by Using Existing Tools. • Jesus Horacio Pacheco Ramirez, Salim Hariri, Ashamsa Vijay and Daniela Ibarra. IoT Security Framework for Smart Water System. • Sarra Jebri, Mohamed Abid and Ammar Bouallegue. LTKA-AC: Lightweight and Trusted Key Agreement based on IBE with Anonymous Communication.
10:30 - 12:30	Track 10 Session 1 (KHALIFA)	**Chair: Prof. Manish Parashar** • Sarra Abidi, Myriam Fakhri, Mehrez Essafi and Henda Hajjami Ben Ghezala. A personalized on-the-fly approach for secure semantic Web services composition. • Emna Taktak and Ismael Bouassida Rodriguez. Energy consumption adaptation approach for Smart Buildings. • Oluwasegun Adedugbe, Elhadj Benkhelifa and Russell Campion. Towards Cloud Driven Semantic Annotation.
10:30 - 12:30	Track 11 session 2 (OIZIR)	**Chair: Prof. Mohamed Jmaiel** • Ahmed Dridi, Salma Sassi and Sami Faiz. Towards a Semantic Medical Internet of Things. • Diego Giovane Pasqualin, Luis Carlos Erpen De Bona, Celio Trois, Marcos Didonet Del Fabro, Marcos Sunyé, Eduardo Cunha Almeida, Marcos Castilho, Daniel Weingaertner, Fabiano Silva, Edemir Maciel and Hegler Tissot. Transparency Meets Management: a Monitoring and Evaluating Tool for Governmental Projects. • Majid Al-Ruithe and Elhadj Benkhelifa. Cloud Data Governance In-Light of the Saudi Vision 2030 for Digital Transformation. • Majid H. Alsulami, Anthony S. Atkins, Russell J. Campion, and Abdulellah A. Alaboudi. An Enhanced Conceptual Model for Using Ambient Assisted Living to Provide a Home Proactive Monitoring System for Elderly Saudi Arabians.
12:30 - 13:30	Lunch	

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

13:30 - 17:30	TUTORIAL Cybersecurity & Internet Governance: Issues, Novel threats & trends By Prof. Belhassen Zouari (EMIR)	
13:30-15:30	Track 5 Session 2 (ETTEJ)	**Chair: Prof. Chiraz Ben Othmane Zribi** • Samia Ben Ismail, Sirine Boukédi and Kais Haddar. LKB Generation of HPSG extensional lexicon. • Hanen Ameur, Salma Jamoussi and Abdelmajid Ben Hamadou. Sentiment lexicon enrichment using emotional vector representation. • Abdelaali Hassaine, Jameela Al-Otaibi, Zeineb Safi and Ali Jaoua. Text Categorization using Weighted Hyper Rectangular Keyword Extraction. • Rania Othman, Rami Belkaroui and Rim Faiz. Towards Using Public Conversations to Mine Product Features in Twitter. • Mohamed Ali Sghaier and Mounir Zrigui. Tunisian Dialect-Modern Standard Arabic Bilingual Lexicon
13:30-15:30	Track 7 Session 3 (OIZIR)	**Chair: Dr. Elhadj Benkhelifa** • Emna Bouzid. Predictive Handoff Mechanism for Video streaming in a Cloud-based Urban Vanet. • Sonia Nasri and Bouziri Hend. Improving total transit time in Dial-A-Ride Problem with Customers-Dependent Criteria. • Akram Hakiri, Bassem Sallemi, Prithviraj Patil, Pascal Berthou and Aniruddha Gokhale. Managing Wireless Fog Networks using Software-Defined Networking. • Mohamed Bassem Ben Salah, Nessrine Ben Rejeb and Abdelaziz Samet. Moment-based SNR Estimation of Linearly-Modulated Transmissions Over Correlated SIMO Channels.
13:30-15:30	CIMN session 4 (SULTAN)	**Chair: Dr. Lamia El Abed** • Saida Haidrar, Adil Anwar and Ounsa Roudies. A SYSML-based Approach to requirements traceability management. • Rihab Jmal and Lamia Chaari Fourati. Emerging Applications for Future Internet Approach Based-on SDN and ICN. • Nour El Houda Ben Youssef, Yosra Barouni, Sofiane Khalfallah, Jaleleddine Ben Hadj Slama and Khaled Ben Driss. Emulation of Content-centric Routing And Forwarding Strategies In Smart Grids.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

		• Abdullah Algarni, Fawaz Alsolami, Fathy Eassa, Khalid Alsubhi, Kamal Jambi and Maher Khemakhem. An Open Tool Architecture for Security Testing of NoSQL-based Applications. • Abdessalem Abidi, Cristophe Guyeux, Belgacem Bouallègue and Mohsen Machhout. Conditions to have a well-disordered dynamics in the CBC Mode of Operation.
13:30 - 15:30		INDUSTRIAL SESSION Chair: Prof. Khaled Ghedira (KHALIFA)
15:30-16:00		Coffee break
16:00-17:30	Track 7 Session 4 (ETTEJ)	**Chair: Dr. Khalil Drira** • Mariem Makni, Mouna Baklouti and Mohamed Abid. Performance Exploration of AMBA AXI4 Bus Protocols for Wireless Sensor Networks. • Ali El Kamel, Manel Majdoub and Habib Youssef. An Efficient MPLS-Based Source Routing Scheme in Software-Defined Wide Area Networks (SD-WAN). • Aya Ayadi, Oussama Ghorbel and Mohamed Abid. Data Classification in Water Pipeline based on Wireless Sensor Networks. • Mouna Gassara and Faouzi Zarai. "Private and Secure ICMP Message" Solution for IP Traceback in Wireless Mesh Network.
16:00 - 17:30		PANEL Discussion Session (KHALIFA)
19:30-23:00		**CONFERENCE GALA DINNER**

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

Friday 03-nov		
08:00 - 12:30		Onsite registration
09:00 - 10:00		Keynote speaker 4 - Pr. Jaime Lloret - Architectures and systems for eHealth monitoring Chair: Prof. Elhadj Benkhelifa (KHALIFA)
10:00 - 10:30		Coffee break
10:30 - 17:30		RESEARCH TRAINING By Prof. Athman BOUGUETTAYA University of Sydney, Australia (EMIR)
10:30 - 12:30	Track 2 session 3 (ETTEJ)	**Chair: Dr. Khouloud Boukadi & Prof. Chirine Ghedira** • Hajer Salhi, Bchira Ben Mabrouk and Zaher Mahjoub. Performance Evaluation of a Parallel Algorithm for Determining all Optimal Solutions of the 1D Array Partitioning Problem. • Imen Dhiab, Yosra Barouni, Sofiane Khalfallah and Jaleleddine Ben Hadj Slama. Pseudo-LRU Replacement Policy in Named Data Networking Using Fat Tree DataCenter Network Architecture. • Imen Ben Hafaiedh, Maroua Ben Slimane and Sourour Haouala, Riadh Robbana. Formal Distributed Model for the Verification of Job-Scheduling in Cloud Environments. • Thomas Welsh and Elhadj Benkhelifa. Perspectives on Resilience in Cloud Computing: Review and Trends.
10:30 - 12:30	Track 3 session 5 (KHALIFA)	**Chair: Prof Nadjia Ben Blidia** • Imen Ben Rejeb, Sonia Ouni and Ezzeddine Zagrouba. Image Retrieval Using Spatial Dominant Color Descriptor. • Ilyes Rebai, Yassine Benayed and Walid Mahdi. Improving of Open-Set Language Identification by using Deep SVM and Thresholding Functions. • Loubna Karbil and Imane Daoudi. Large-Scale Supervised Hashing for Cross-Modal Retreival. • Asma Fejjari, Karim Saheb Ettabaa and Ouajdi Korbaa. Modified Schroedinger Eigenmap Projections Algorithm For Hyperspectral Imagery Classification

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

10:30 - 12:30	Track 7 Session 4 (OIZIR)	**Chair: Prof. Fakhrieddine Karray** • Malek Rekik, Amel Makhlouf and Faouzi Zarai. Improved Dual Authentication and Key Management Techniques in Vehicular Ad Hoc Networks • M. Soperi Mohd Zahid, Babangida Isyaku and Faizal A. Fadzil. Recovery of Software Defined Network from Multiple Failures: Openstate Vs Openflow. • Maroua Abdelhafidh, Lamia Chaari Fourati, Mohamed Fourati and Amor Abidi. Remote Water Pipeline Monitoring System IoT-based Architecture for new Industrial era 4.0 Case Study: Tunisian Chemical Group: M'dhilla 2. • Nihed Bahria El Asghar, Imen Jouili and Mounir Frikha. Survivable Inter-Datacenter Network Design Based on Network Coding. • Anwar Kalghoum, Sonia Mettali Gammar and Leïla Azouz Saïdane. Towards a Novel Forwarding Strategy for Named Data Networking based on SDN and Bloom Filter
10:30 - 12:30	Track 12 session 2 (SULTAN)	**Chair: Dr. Mounira Harzallah** • Fidel Jiomekong Azanzi, Gaoussou Camara and Tchuente Maurice. Knowledge extraction from source code based on Hidden Markov Model : application to EPICAM. • Ali Ayadi, Cecilia Zanni-Merk, François de Bertrand de Beuvron and Saoussen Krichen. Ontological reasoning for understanding the behaviour of complex biomolecular networks. • Nouha Chaoued, Amel Borgi and Anne Laurent. Symbolic Approximate Reasoning within Unbalanced Multi-Sets: Application to Autism Diagnosis. • Souha Bennani, Ahmed Maalel, Henda Ben Ghezala and Mourad Abed. Towards A Decision Support Model for the Resolution of Episodic Problems based on Ontology and Case Bases Reasoning Application to Terrorism Attacks
12:30 - 13:30	Lunch	

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

13:30-15:30	Special Session 2 (KHALIFA)	**Chair: Prof. Salima Hassas** • Med Elyes Ben Haj Kbaier, Hela Masri and Saoussen Krichen. A personalized hybrid tourism recommender system. • Youssef Benhaddou and Philippe Leray.; Customer Relationship Management and Small Data - Application of Bayesian Network Elicitation techniques for building a Lead scoring model. • Marwa El Abri, Philippe Leray and Nadia Essoussi. Learning Probabilistic Relational Models with (partially structured) Graph Databases. • Sarra Hasni and Sami Faiz. Real-time Event localization and detection over social networks using Apache Intelligence. • Fatma Abdelhedi, Amal Ait Brahim, Faten Atigui and Gilles Zurfluh. UMLtoNoSQL: Automatic Transformation of Conceptual Schema to NoSQL Databases
13:30-15:30	Special Session 3 (ETTEJ)	**Chair: Dr. Mustafa Jarrar** • Emna Hammami and Yosr Slama. An overview on loop tiling techniques for code generation. • Manel Takrouni, Marwa Gdhaifi, Azer Hasnaoui, Ikbel Mejri and Salem Hasnaoui. Design and Implementation of a Simulink DDS Blockset and its Integration to an Active Frame Steering blockset conformed to SAE ElectricVehicle. • Chamseddine Hamdeni, Tarek Hamrouni and Faouzi Ben Charrada. DisQuEv: Looking for Distribution Quality Evolution as a New Metric for Evaluating Replication Strategies. • Khaoula Bezzina and Zaher Mahjoub. Maximizing the Parallelism Degree for Optimal Computing of Matrix Chain Products • Mohamed Labidi, Mohamed Jemni and Meher Khmekhem. Co-scheduling Data and Task for a Data-driven Distribution of Data-intensive Apllications.
13:30-15:30	Special Session 4 (OIZIR)	**Chair: Prof.Elhadj Benkhelifa** • Fatima Ezzahra Ouerfelli, Khaled Barbaria and Belhassen Zouari. On the Collaborative Inference of DDoS: A multi-scale Distributed Approach. • Rihab Boussada, Mohamed Elhoucine Elhdhili and Leila Azouz Saidane. Privacy Preserving Solution for Internet of things with Application to eHealth. • Sabri Challouf, Lobna Kriaa and Leila Azouz Saidane. Comparison of IoT constrained devices operating systems: A Survey. • Mariem Bouchaala, Cherif Ghazel and Leila Azzouz Saidane. End To End Cloud Computing Architecture Based On A Novel Classification Of Security Issues.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

13:30-15:30	Special Session 5 (SULTAN)	**Chair: Dr. Mohammed El-Abd** • Mariem Taktak, Slim Triki and Anas Kamoun. 3D Handwriting characters recognition with symbolic-based similarity measure of Gyroscope signals embedded in smart phone. • Ben Makhlouf Aicha, Borhen Louhichi and Mohamed Ali Mahjoub. Approach for CAD model Reconstruction from a deformed mesh. • Asma Ben Abdallah and Arij Debbich. Effect of Surface Remeshing on Hymodynamic Simulations Quality in Carotid Arteries. • Soumaya Zaghbani. Facial Emotion Recognition for Adaptive Interfaces Using Wrinkles and Wavelet Network. • Raouia Mokni, Hassen Drira and Monji Kherallah. Fusing Multi-techniques based LDA-CCA and its application in palmprint identification system. • Imen Jegham and Anouar Ben Khalifa. Pedestrian detection in poor weather conditions using moving camera.
15:30 - 16:00	Conference Closing (KHALIFA)	

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

Posters
Wednesday
01-Nov
13:30-15:30
Open Session - (Judging for Best Poster)

Poster Presentation

1. Aliaa Jamal, Nour Alkandari, Ahmed Bitar, Hesham Sultan and Mohammed El-Abd. Medical Drones System
2. Mennatallah Ibrahim, Mark Riad and Mohammed El Abd. Road Eye-The Intelligent Transportation System
3. Luiz H. S. Torres, Leizer Schnitman and José Felippe de Souza. Towards Intelligent Autonomous Controllers: Architecture for Industrial Distributed System
4. Khaled Jouini. Distorted Replicas : Intelligent replication schemes to boost I/O throughput in document-stores
5. Haouari Imen and Hamdi Olfa. Performance Evaluation for Dense Sparse Matrix Product Algorithms.
6. Nesrine Ben Salah, Inès Bayoudh Saâdi and Henda Ben Ghezela. A comprehensive view of u-accessibility in context-aware learning systems for disabled learners.
7. Marwa Harrathi, Narjess Touzani and Rafik Braham. A hybrid knowledge-based approach for recommending massive learning activities.
8. Achref El Amri and Aref Meddeb. Resource Allocation Heuristics for Network Virtualization.
9. Amel Ben Said, Intidhar Jemel, Ridha Ejbali and Mourad Zaied. A hybrid approach for image classification based on sparse coding and wavelet decomposition
10. Arij Debbich and Asma Ben Abdallah. Blood flow modeling in a healthy carotid artery bifurcation: simulations against in vivo measurements.
11. Sami Bourouis, Faisal Al-Osaimi, Nizar Bouguila, Hassen Sallay and Fahd Aldosari. Video Forgery Detection Using a Bayesian RJMCMC-Based Approach.
12. Imen Abdennadher and Ismael Bouassida Rodriguez. A utility-based approach for self-adaptive systems: application to a Smart Building.
13. Amal Bouraoui, Salma Jamoussi and Abdelmajid Benhamadou. A new method for the construction of evolving embedded representations of words.
14. Ines Sbai, Olfa Limem and Saoussen Krichen. An Adaptive Genetic Algorithm for the Capacitated Vehicle Routing Problem with Time Windows and two-dimensional Loading constraints.
15. Badia Bouhdid, Wafa Akkari and Abdelfettah Belghith. A Low Overhead Efficient Localization approach for large scale Wireless Sensor Networks.

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

16. Zeineb Lazreg, Monia Hamdi and Mourad Zaied. Bi-Objective GA for Cost-effective and Delay-aware Gateway Placement in Wireless Mesh Networks
17. Ben Latifa Nader, Hamdi Bilel and Aguili Taoufik. Floquet modal analysis to study radiation pattern for coupled almost periodic antenna array
18. Safa Mejri, Haifa Touati, Naceur Malouch and Farouk Kamoun. Hop-By-Hop Congestion Control for Named Data Networks
19. Safa Boumiza and Rafik Braham. Intrusion Threats and Security Solutions for Autonomous Vehicle Networks.
20. Zied Trifa and Maher Khemakhem. A Framework for Monitoring and Mitigating Malicious Attacks in Structured P2P Overlay Networks.
21. Amina Chouigui, Oussama Ben Khiroun and Bilel Elayeb. ANT Corpus: An Arabic News Text Collection for Textual Classification.

Date and Time	PhD Forum
Session1 Wednesday 01-Nov 16:00- 17:00	• Hana Haj Ahmed. Data Quality Assessment in the Integration Process of Linked Open Data (LOD) • Ali Houssein Souleiman. Orchestration and adaptation of learning scenarios – Application to the case of programming learning / teaching. • Bochra Khiari and Lamia Labed. TOWARDS a DSPL FOR CONTEXT AWARE BPMa

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

Honorary Chair

- **Slah Ben Turkia,** President of Université Centrale

Steering Committee

- **Salim Hariri,** University of Arizona, USA (Chair)
- **Elhadj Benkhelifa,** Staffordshire University, UK (Co-Chair)
- **Chirine Ghedira Guegan,** University of Lyon, France (Co-Chair)
- **Salima Hassas,** University of Lyon, France
- **Yaser Jaraweh,** Jordan University of Science and Technology, Jordan
- **Nashaat Mansour,** Lebanese American University, Lebanon
- **Abdelhakim Senhaji Hafid,** University of Montreal, Canada
- **Athman Bouguettaya,** University of Sydney
- **Abdella Battou,** NIST, USA
- **Ahmed El Bath,** Université Grenoble Alpes, France
- **Omar El Beqqali,** U.S.M.B.A. - FES, Morocco

Organising Committee

General Co-Chairs

- **Yaser Jaraweh,** Jordan University of Science and Technology, Jordan
- **Khaled Ghedira**, Université Centrale, Tunisia

Program Committee Co-Chairs

- **Hedi Karray,** INP-ENIT, University of Toulouse, France. (Lead Chair)
- **Nadia Kabachi,** University of Claude Bernard Lyon 1, France
- **Henda Ben Ghzela,** University of La Manouba, Tunisia

Workshop and Tutorial Chairs

- **Mohammad Alsmirat,** Jordan University of Science and Technology, Jordan
- **Faten Atigui,** CNAM - CEDRIC Paris
- **Sihem Ben Sassi, RIADI-ENSI,** University of la Manouba,Tunisia

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017 October 30th to November 3rd, 2017

Final Program

Publication Chairs

- **Youssif Al Nashif, Florida Polytechnic University, USA**.
- **Cihan Tunc,** University of Arizona, USA.

Publicity Chairs

- **Khouloud Boukadi, University of Sfax, Tunisia**
- **Emna Ben Turkia,** Université Centrale, Tunisia
- **Qussai M. Yaseen,** Jordan University of Science and Technology, Jordan
- **Abdellah Boulouz,** Morocco
- **Mohammad abdulrahman,** University of Alexandria, Egypt
- **Donia Zheni Triki,** Benin

Poster and demo Chairs

- **Mohamed Amine Baazizi, LIP6, France**
- **Youssef Ben Halima,** University of Manouba, Tunisia
- **Olfa Belkahla Driss,** University of Manouba, Tunisia

Industrial Track Chairs

- **Mohamed Larbi Ben Younes,** ANPR, Tunisia
- **Farah Barika,** University of Sousse, Tunisia
- **Ahmed Maalel,** University of Sousse, Tunisia

PhD Symposium Chairs

- **Rim Drira,** University of Manouba, Tunisia
- **Anja Habacha,** University of Manouba, Tunisia

Sponsorship Chair

- **Elhadj Benkhelifa,** Staffordshire University, UK
- **Chirine Ghedira Guegan,** University of Lyon, France

Web Chair

- **Nabil Makarem,** Lebanese American University, Lebanon

Finance & Registration Chair

- **Cihan Tunc**, University of Arizona, USA

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

Local Organising Committee

- **Moncef Temani, University of Tunis, Tunisia**
- **Emna Ben Turkia, Université Centrale, Tunisia**

AICCSA 2017 Tracks

Track 1: IR, Big Data, Business Intelligence
Track 2: Cloud, Parallel, Distributed and High Performance Computing
Track 3: Multimedia, Computer Vision and Image Processing
Track 4: Advances in Software Engineering
Track 5: Natural Language Processing and Applications
Track 6: Advances in AI, Agent Systems and Ambient Intelligence
Track 7: Advances in Networking and Sensor Networks
Track 8: Systems and Software Security
Track 9: Social and Mobile Computing
Track 10: Advances in Web Technologies, Semantics and Future Internet
Track 11: Digital Living including E-Learning, E-Governement, E-Health
Track 12: Knowledge Management & Ontology engineering

AICCSA 2017 Workshops & Special sessions

- The First International Workshop on Arabic Natural Language Processing (ANLP 2017)
- The Third International Workshop on Online Social Networks Technologies (OSNT-2017)
- The 5th International workshop on Big Data and Social Networking Management and Security (BDSN 2017)
- 3rd International Workshop for Data Science and Computing (DSC'2017)
- Special session on "Information Computing, Networking, and Security"
- The 1st International Symposium on " Computing, Informatics, Multimedia & Networking" (CIMN 2017)

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017 October 30th to November 3rd, 2017

Final Program

AICCSA 2017 Tutorials

- Arabic Ontology Engineering (Dr. Mustafa Jarrar, Dr. Mounira Harzallah & Dr. Hedi Karray)
- Rest Services Composition (Dr. Michael Mrissa)
- Cybersecurity & Internet Governance: Issues, Novel threats & trends (Dr. Belhassen Zouari)

AICCSA 2017 KEYNOTE Speakers

Dr. Manish Parashar   Dr. Salima Hassas   Dr. Fakhreddine Karray   Dr. Jaime Lloret

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017 October 30th to November 3rd, 2017

Final Program

WEVIOO GROUP

An International Consulting and System Integration company supporting clients in projects of innovation, performance improvement and international development.

300	High-tech talent and business experts	
20	Years' experience of innovation at the client's service	
+200	Demanding projects in more than 30 countries in Europe, North America, Africa and the Middle East	
05	Bases on 3 continents with service models combining local and international capabilities	Locations
		Countries where we work

wevioo
INSPIRED SOLUTIONS

Your partner in digital innovation

CONSULTING – DIGITAL – TECHNOLOGY

wevioo.com

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
October 30th to November 3rd, 2017

Final Program

14th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2017
Oct 30th to Nov 3rd, 2017.
Hammamet, Tunisia.