

AICCSA 2020

Technical Program (GTM +1)

Slack channel: https://join.slack.com/t/aiccsa-2020/shared_invite/zt-iewnc0ue-sTLgENrWOpwIBR6NWKKDnA

Monday 2nd November 2020

GMT+1 (Paris time)

9:00 - 9:15			Workshop DSC	Opening (Chairs: Nadjia Benblidia, Omar Boussaïd) https://arizona.zoom.us/j/88367028603
9:15 - 9:30		AQAD: 17,000+ Arabic Questions for Machine Comprehension of Text <i>Adel Atef, Bassam Mattar, Sandra Sherif, Eman Elrefai and Marwan Turki</i>		
9:30 - 9:45		Improving Transport Demand Modeling with Volunteered Geographic Information <i>Chaima Ahlem Karima Djellab, Walid Chaker and Henda Hajjami Ben Ghezala</i>		
9:45 - 10:00		Classical Arabic Poetry: Classification based on Era <i>Mariam Orabi, Hozayfa El Rifai and Ashraf Elnagar</i>		
10:00 - 10:15	Workshop STRS	Opening (Chairs: Chase Wu, Celimuge Wu, Yanchao Yin) - https://arizona.zoom.us/j/85131967364		Bidirectional Gated Recurrent Unit Neural Network with Attention Mechanism for Arabic Paraphrase Detection <i>Adnen Mahmoud and Mounir Zrigui</i>
10:15 - 10:30		A Blockchain Model for Secure Communications in Internet of Vehicles <i>Khaleel Mershad</i>	Coffee Break	
10:30 - 10:45		Ensemble of Pre-trained Pedestrian Detectors via Non-Maximum Suppression for Better Generalization and Consistent Performance <i>Tugce Toprak, Parvin Bulucu, Mustafa Ozcelikors, Ali Ciltik and M. Alper Selver</i>	Workshop DSC	A Semantic Model for Context-Based Fake News Detection on Social Media <i>Anoud Bani-Hani, Oluwasegun Adedugbe, Elhadj Benkhelifa, Munir Majdalawieh and Feras Al-Obeidat</i>
10:45 - 11:00		Management plane for differential privacy preservation through smart contracts <i>Nida Khan, Abdelkader Lahmadi, Zsofia Kraussl and Radu State</i>		MultiScale Fusion of Histogram-based Features for Robust Off-line Handwritten Signature Verification <i>Naouel Arab, Hassiba Nemmour and Youcef Chibani</i>
11:00 - 11:15		IEDSS: Efficient scheduling of Emergency Department resources based on Fog Computing <i>Chafia Bouanaka, Ala Eddine Laouir and Rassim Medkour</i>		A Hybrid Partitioning Algorithm to Solve Big Instances of the Probabilistic TSP <i>Mohamed Abdellahi Amar and Soumaya Sassi Mahfoudh</i>
11:15 - 11:30		Video Preview Generation Based on Playback Records <i>Xuewen Shen, Songlin He, Dingguo Yu and Zhiyan Tang</i>		

11:30 - 12:00 Coffee Break

12:00 - 12:15	Symposium CPS-CAPP	Opening (Chairs: Hedi Karray, Ernesto Exposito, Maroua Masmoudi) https://arizona.zoom.us/j/87449722140	Workshop HOPE	Opening (Chair: Thomas Lux, Adel Taweel) https://arizona.zoom.us/j/87483468671
12:15 - 12:30		A Goal-Oriented Fault Tolerance Software Enhanced by Critical Information Code Protection <i>Ahmad Qadeib Alban and Ali Jaoua</i>		Workshop Keynote Mrs. Thao Nguyen ACCENTURE AG
12:30 - 12:45		AI-driven Visualizations for Performance Monitoring and Anomaly Detection in Robots <i>Nuño Basurto, Carlos Cambra and Álvaro Herrera</i>		From research to development – product definition in eHealth
12:45 - 13:00		Towards Enhancing Security and Resilience in CPS : A Coq-Maude based approach <i>Samir Ouchani, Khaled Khebbab and Meriem Hafsi</i>		Imbalance Prediction Among Elderly People Using Deep Learning
13:00 - 13:15		Towards a cyber physical social system based on centric network for a digitized mobile blood collection process <i>Ikram Gheraout, Linda Elmhadhbi, Bernard Archimede and Sidi Mohamed Meliani</i>		BLPAD.Core: a Multi-functions Optimizer towards Daily Planning Generation in Home Health Care <i>Liwen Zhang, Elyes Lamine, Franck Fontanilli, Christophe Bartoloso, Marianne Sargent, Mustapha Derras and Hervé Pinquard</i>
13:15 - 13:30			Distributed Contextualization of Biomedical Data: a case study in precision medicine <i>Sirine Sayadi, Estelle Geffard, Mario Südholt, Nicolas Vince and Pierre-Antoine Gourraud</i>	

13:30 - 14:30 Lunch

14:30 - 14:45	Symposium CPS-CAPP	A Digital Twin Prototype for Product Lifecycle Data Management <i>Christoph Schranz, Felix Strohmeier and Violeta Damjanovic-Behrendt</i>
14:45 - 15:00		Novel Synthesizable eFPGA based on Island Network with Multilevel Switch Boxes. <i>Hajer Saidi, Mariem Turki, Zied Marrakchi, Abdulfattah Obeid and Mohamed Abid</i>
15:00 - 15:15		FCM-Based fast texture CU size decision algorithm for 3D-HEVC inter-coding <i>Siham Bakkouri and Abderrahmane Elyousfi</i>
15:15 - 15:30		A Genetic Algorithm For Solving the Radio Network Planification Problem in 5G cellular networks <i>Yosra Chaabene</i>

Tuesday 3th November 2020

9:00 - 9:15	Workshop STRS	Chairs: Chase Wu, Celimuge Wu, Yanchao Yin https://arizona.zoom.us/j/85131967364 Auto Parts Sales Prediction Based on Machine Learning for small data and a long replacement cycle <i>Weizhi Liao, Guanglei Ye, Yanchao Yin, Weijun Yan, Yaheng Ma and Dongzhou Zuo</i>
9:15 - 9:30		A Matrix Factorization Based Recommendation Algorithm for Science and Technology Resource Exploitation <i>Xueqing Zhang, Xiaoxia Liu, Jun Guo, Baoying Liu and Daguang Gan</i>
9:30 - 9:45		Research on the Collaborative Diagnosis of Automobile Maintenance and Repair Based on an Improved SimHash Algorithm <i>Weizhi Liao, Dongzhou Zuo, Yanchao Yin, Qiang Zhang, Guanglei Ye and Yaheng Ma</i>
9:45 - 10:00		Sharing path of scientific and technological literature resources based on cooperative network and co-occurrence network <i>Fanying Zheng, Fu Gu, Yangjian Ji and Jianfeng Guo</i>
10:00 - 10:15	Coffee Break	
10:15 - 10:30	Workshop STRS	The inventory of spare parts Prediction Based on LSTM for large data and a short replacement cycle <i>Weizhi Liao, Guanglei Ye, Yanchao Yin, Weijun Yan, Yaheng Ma and Dongzhou Zuo</i>
10:30 - 10:45		Recommendation of Academic Papers Based on Heterogeneous Information Networks <i>Nana Du, Jun Guo, Chase Q. Wu, Aiqin Hou, Zimin Zhao and Daguang Gan</i>
10:45 - 11:00		A personalized recommendation algorithm with time factors for technical patent matching <i>Wenlei Bai, Jun Guo, Baoying Liu and Daguang Gan</i>

11:00 - 12:00	AICCSA 2020	<p style="text-align: center;">Opening and Welcome</p> <p style="text-align: right;">https://arizona.zoom.us/j/87913675743</p> <ul style="list-style-type: none"> - Presentation of AICCSA and the 2020 edition, General Chairs - Presentation of the 2020 Edition program & Content report, General Track Co-Chairs - Official Opening Words, General Chairs
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12:00 - 14:00 Lunch

Paper Session 1: AI, Agent Systems and Ambient Intelligence		
14:00 - 14:15	AICCSA 2020	Opening (Salima Hassas, Simon Pageaud) - https://arizona.zoom.us/j/87913675743
14:15 - 14:30		Quick-CapsNet (QCN): A fast alternative to Capsule Networks <i>Pouya Shiri, Ramin Sharifi and Amirali Baniasadi</i>
14:30 - 14:45		Accelerating Simulation for Agent-Based Epidemic Models using FPGAs <i>Ce Guo, Wayne Luk and Stephen Weston</i>
14:45 - 15:00		M-CNN: A New Hybrid Deep Learning Model for Web Security <i>Ines Jemal, Haddar Med Amine, Omar Cheikhrouhou and Adel Mahfoudhi</i>
15:00 - 15:15		A Multi-Agent Approach for Vehicle to Fog Fair Computation Offloading <i>Emmanuelle Grislin, Smail Niar and Hamza Ouarnoughi</i>

15:15 - 15:45 Coffee Break

Paper Session 2: Security, Privacy and Trust		
15:45 - 16:00	AICCSA 2020	Opening (Chairs: Nadia Bennani, Elif Bilge Kavun) - https://arizona.zoom.us/j/87913675743
16:00 - 16:15		Session Invited Talk: Lineage-Preserving Anonymization of the Provenance of Collection-Based Workflows <i>Khalid Belhajjame, Université Paris-Dauphine, France</i>
16:15 - 16:30		How to Code Data Integrity Verification Secure Against Single-Spot-Laser-Induced Instruction Manipulation Attacks <i>Junichi Sakamoto, Shugo Hayashi, Daisuke Fujimoto and Tsutomu Matsumoto</i>
16:30 - 16:45		Crucial and Redundant Shares and Compartments in Secret Sharing <i>Fabian Schillinger and Christian Schindelhauer</i>
16:45 - 17:00		Detection of Tor traffic using deep learning <i>Debmalya Sarkar, Vinod P and Suleiman Yerima</i>

17:00 - 17:15 Coffee Break

17:15 - 18:15	AICCSA 2020	<p>Keynote 1 (Chairs: Ali Akoglu, Chirine Ghedira-Guegan) - https://arizona.zoom.us/j/87913675743</p> <p>İlkay Altıntaş, Ph.D. Chief Data Science Officer, San Diego Supercomputer Center, USA</p> <p>Challenges and Opportunities for Composable AI-Integrated Applications at the Digital Continuum</p>
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Wednesday 4th November 2020

08:00 - 08:15	Women in STEM	Women in STEM Special Session: Presentations, Discussion and Panel https://arizona.zoom.us/j/87913675743	
		Welcome & Opening (Chirine Ghedira Guégan, Geneveva Vargas-Solar)	
08:15-08:45		Keynote 1 (Chair: Chirine Ghedira-Guegan)	
08:45-09:15		Digital Twin - An industry led pilot case study <i>Karamjit Kaur, University South Australia, Australia</i>	
		Keynote 2 (Chair: Chirine Ghedira-Guegan)	
09:15-10:00		Applications of IoT wireless sensor networks in the pandemic era <i>Eli Katsiri, IMSI/ATHENA, Greece</i>	
		Panel (Moderator: Geneveva Vargas-Solar)	
		How to be a successful professional in Computer Science & STEM in pandemic times? Panelists <i>Eli Katsiri, IMSI/ATHENA, Greece</i> <i>Karamjit Kaur, University South Australia, Australia</i> <i>Hanène Ben-Abdallah, Higher Colleges of Technology in Dubai, UAE</i> <i>Sofia Bekrar, Apple senior security researcher, USA</i> <i>Gabriela Montiel Moreno, Software Engineering Manager, LinkedIn Women@LinkedIn HQ Office Co-Lead, USA</i> <i>Claudia Flores Saviaga, Research Fellow Facebook PhD student HCI Lab in the Computer Science Department at West Virginia University, USA</i>	

10:00 - 11:00 Coffee Break

Paper Session 3: Networking, IoT, and Sensors			
11:00 - 11:15	AICCSA 2020	Opening (Chairs: Javier Espinosa-Oviedo, João Batista de Souza Neto) - https://arizona.zoom.us/j/87913675743	
11:15 - 11:30		Real-time data cleaning in traffic sensor networks <i>Chiara Bachechi, Federica Rollo and Laura Po</i>	
11:30 - 11:45		Utilizing Roadside Units and Software Defined Networking to Route Packets Efficiently in Internet of Vehicles <i>Khaleel Mershad</i>	
11:45 - 12:00		Improvement of K-Coverage and Connectivity of Border Monitoring Application based on WSN <i>Amira Zrelli and Tahar Ezzedine</i>	
12:00 - 12:15		Multi-level Bluetooth Intrusion Detection System <i>Shalaka Satam, Pratik Satam and Salim Hariri</i>	

12:15 - 13:30 Lunch

Paper Session 4: Multimedia, Computer Vision and Image Processing			
13:30 - 13:45	AICCSA 2020	Opening (Chair: Nadja Benblidia, Khouloud Boukadi) - https://arizona.zoom.us/j/87913675743	
13:45 - 14:00		Hybrid combination of Convolutional Neural Network Features for Robust Writer Retrieval in Historical Documents <i>Mohamed Lamine Bouibed, Hassiba Nemmour, Youcef Chibani and Adel Hafiane</i>	
14:00 - 14:15		Graph Self-Attention Network for Image Captioning <i>Qitong Zheng and Yuping Wang</i>	
14:15 - 14:30		Selective Model for Few Shot Classification <i>Yuping Wang, Qitong Zheng and Yue He</i>	
14:30 - 14:45		3D Brain Image Segmentation Model using Deep Learning and Hidden Markov Random Fields <i>El-Hachemi Guerrou, Mahiou Ramdane, Anfel Melouk and Ines Harmali</i>	
14:45 - 15:00		Video Anomaly Detection Using Pre-Trained Deep Convolutional Neural Nets and Context Mining <i>Chongke Wu, Sicong Shao, Cihan Tunc and Salim Hariri</i>	

15:00 - 15:15 Coffee Break

Paper Session 5: Software Engineering			
15:15 - 15:30	AICCSA 2020	Opening (Chairs: Nelson Rosa, Nabor Mendonça) - https://arizona.zoom.us/j/87913675743	
15:30-15:45		Session Invited Talk: A Commitment to Services and Solutions <i>Luis Martinez Fuentes, URJC, Spain</i>	
15:45 - 16:00		BCTMark: a framework for benchmarking blockchain technologies <i>Dimitri Saingre, Thomas Ledoux and Jean-Marc Menaud</i>	
16:00 - 16:15		An Improved Prediction of Software Enhancement Effort using Correlation-based Feature Selection and MSP ML algorithm <i>Zaineb Sakhravi, Asma Sellami and Nadia Bouassida</i>	
16:15 - 16:30		Proxemic Environments Modelling Based on a Graphical Domain-Specific Language <i>Paulo Pérez, Philippe Roose, Nadine Couture, Yudith Cardinale, Marc Dalmau and Dominique Masson</i>	

16:30 - 16:45 Coffee Break

16:45 - 17:45	AICCSA 2020	<p>Keynote 2 (Chairs: Mahdi Zargayouna, Yaser Jararweh) - https://arizona.zoom.us/j/87913675743</p> <p>Prof. Dr. Ir. Bart Preneel ESAT/COSIC, KU Leuven and IMEC, Belgium</p> <p>Big data against corona: mass surveillance or privacy by design?</p>
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Thursday 5th November 2020

Paper Session 6: Semantics and Knowledge Management & Data Bases and Information Systems		
11:45 - 12:00	AICCSA 2020	Opening (Chairs: Carmem Hara, Laura Po, Raquel Trillo) - https://arizona.zoom.us/j/87913675743
12:00 - 12:15		Session Invited Talk: BIGSEA- A Big Data Analytics Platform for Public Transportation Management <i>Nádia P. Kozievitch, Department of Informatics, UTFPR, Curitiba, Brazil</i>
12:15 - 12:30		Session Invited Talk: Managing heterogeneous geospatial observation and modeling data in the TRAFair project <i>José R.R. Viqueira, Research center on intelligent technologies, University of de Santiago de Compostela, Spain</i>
12:30 - 12:45		An Experimental Evaluation of Content-Based Recommendation Systems: Can Linked Data and BERT Help? <i>Maria Del Carmen Rodríguez Hernández, Rafael del Hoyo Alonso, Sergio Ilarri, Rosa María Montañés Salas and Sergio Sabroso Lasa</i>
12:45 - 13:00		FILLET – Platform for intelligent nutrition <i>David Ribeiro, João Costa, Inês Lopes, Telmo Barbosa, Carlos Soares, Filipe Sousa, Jorge Ribeiro, Duarte Rocha and Marlos Silva</i>

13:00 - 13:30 **Lunch**

13:30 - 14:30	AICCSA 2020	Keynote 3 (Chairs: Geneveva Vargas-Solar, Martin A. Musicante) - https://arizona.zoom.us/j/87913675743 Prof. Elias P. Duarte Jr., Ph.D. Federal University of Parana, Brazil Leveraging In-Network Computing with Network Function Virtualization
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14:30 - 13:45 **Coffee Break**

Paper Session 7: Natural Language Processing and Applications		
14:45 - 15:00	AICCSA 2020	Opening (Chairs: Ali Jaoua, Nasreddine Semma) - https://arizona.zoom.us/j/87913675743
15:15 - 15:30		Multilinguals Sentiment Recommendation System based on Multilayer Convolutional Neural Networks (MCNN) and Collaborative Filtering based Multistage Deep Neural Network Models (CFMDNN). <i>Maram Almaghrabi and Girija Chetty</i>
15:30 - 15:45		Speaker Naming in TV programs Based on Speaker Role Recognition <i>Mohamed Lazhar Bellagha and Mounir Zrigui</i>
15:45 - 16:00		A Character Aware Gated Convolution Model for Cloze-style Medical Machine Comprehension <i>Reham Omar, Nagwa El-Makky and Marwan Toriki</i>
16:00 - 16:15		Pattern matching in meter detection of Arabic classical poetry <i>Abdelmalek Berkani, Adrian Holzer and Kilian Stoffel</i>
16:15 - 16:30		Treebank creation and parser generation for Tunisian Social Media text <i>Asma Mekki, Inès Zribi, Mariem Ellouze and Lamia Hadrich Belguith</i>

Closing and Best Papers Awards Announcement

<https://arizona.zoom.us/j/87913675743>

16:45 - 17:15 AICCSA 2020

- Session statistics and program wrap up, General Track Co-Chairs
- Best paper and Best Student paper awards announcement, General Chairs
- Announcement of the 2021 Edition