

Tuesday December 18th, 2018

08:30 - 09:00		Registration								
09:00 - 09:30		Opening Session (Ramsis I)								
09:30 - 10:30		Plenary Talk (I) (Ramsis I)								
		1	Intelligent Vision for Smart Connected and Autonomous Cars				Prof. A. Boukerche, University of Ottawa, Canada			
		Panel: Prof. Mohamed Fahmy TOLBA								
10:30 - 11:30		Plenary Talk (II) (Ramsis I)								
		2	Rigorous Simulation				Prof. Walid TAHA, Halmstad University, Sweden			
		Panel: Prof. Gamal ALY								
11:30 - 11:45		Coffee Break								
11:45 - 13:30		AI: Artificial Intelligence (Ramsis I)		BM: Biomedical Engineering (Ramsis II)		DL: Deep Learning (Anni Annex)				
		Chair: Prof. Hani Kamal MAHDI		Chair: Dr. Hazem SAID		Chair: Dr. Mohamed SOBH				
		217	Egyptian Nile Tilapia Fish Freshness Assessment based on an Efficient Image Processing Method	Aboul Ella Hassanien; Mona Mohamed Soliman	146	Web Service-based System for Hepatobiliary System Diseases Prognosis and Treatment	Galal Ahmed AL-Marzoqi; Marco Tawfik; Ibrahim Moawad	39	Deep learning algorithms for detecting Fake News in Online Text	Sherry girgis farag; Eslam Amer
		90	A Comprehensive Investigation of the Effects of Linear Chirp Jamming on Commercial GNSS Receivers Under High-Dynamic Scenarios	Mohamed Tamazin; Malek Karaim; Haidy Elghamrawy; Abouelmagd Noureldin	153	Survey: Automatic Recognition of Musculoskeletal Disorders from Radiographs	Dr. Ayman Nabil; Taraggy Ghanim	74	A Deep Learning Approach for Vehicle Detection	Mohamed Ashraf; Hossam Abdelmunim; Ahmed Hassan; Sherif Hammad
		97	An Accelerated Path Planning Approach.	Hassan Shehata; Hossam Abdelmunim; Israa Morsi Ahmed	166	Precise Feature Selection in Predictive Genetic Models Using Grey Wolf Optimization Algorithm	Mohamed A Abbas	77	Semantic Image Inpainting Using Self-Learning Encoder-Decoder and Adversarial Loss	Nermin Mohamed Salem, Hani Mahdi, Hazem Abbas
		70	Seasonal Multi-temporal Pixel Based Crop Types and Land Cover Classification for Satellite Images Using Convolutional Neural Networks	Noureldin Laban; Bassam Abdellatif; Hala M. Ebeid; Howadia Saheb	186	Parallel Algorithm for Aligning Multiple Biological Sequences on Manycore Systems	Sara A Shehab	121	A GRASP-Genetic metaheuristic applied on Multi-Processor Task Scheduling Systems	Abla Saad elsaid; Ahmed Kafafy; osama abd-el-Raof; Nancy A. El-Hefnawy
		78	Comparison of CNNs for Remote Sensing Scene Classification	Mayar A. Shafae; Mohammed A.-M. Salem; Hala Mousher; Marvam Al Berry;	129	Daily Activity Recognition Using Wearable Sensors Via Machine Learning and Feature Selection	Ahmad Dr. Al-Kabbany; Heba Shaban; Abeer Ashraf Badawi	201	Contextualized Word Representations for Self-Attention Network	Mariam Essam; Seif Eldawlatly; Hazem Abbas
		142	Sentence Semantic Similarity based on Word Embedding and WordNet	Mamdouh Farouk	33	Directed Particle Swarm Optimization Technique for Delivering Nano-robots to Cancer Cells	Doaa Ezzat	75	Learning transformations for automated classification of manifestation of tuberculosis using convolutional neural network	Asmaa A Hassan; Mohammed Abdelsamea
		218	DeepPet: A Pet animal tracking system in Internet of Things using deep neural networks	Ahmed Hammam; Aboul Ella Hassanien; Mona Mohamed Soliman	58	Comparative Biomechanical Analysis of Lumbar Disc Arthroplasty using Finite Element Modeling	Heba Afify; Mai Mabrouk; Samir Marzouk	61	A NOVEL VEHICLE DETECTION SYSTEM	Yehia Zakaria; Mohamed Ashraf; Hossam Abdelmunim; Sherif Hammad; Maged Ghoneima; Ahmed Hassan
13:30 - 14:30		Lunch (Restaurant)								

	PC1: Parallel and Cloud Computing I (Ramsis I)			SE1: Software Engineering I (Ramsis II)			CA1: Computer Architecture I (Anni Annex)		
	Chair: Dr. Mahmoud KHALIL			Chair: Dr. Haytham AZMI			Chair: Prof. Abdel-Moneam WAHDAN		
	14:30 - 16:00	40	SFSAN Approach for Solving the Problem of Small Files in Hadoop	Tharwat EL-Sayed; Mohammed Badawy; Ayman EL-Sayed	28	Sentiment Analysis on Twitter Data using Apache Spark Framework	Hossam El-zayady	18	Implementation of Efficient Multiplier for High Speed Applications Using FPGA
171		Resource Management Challenges in the Next Generation Cloud based Systems: A Survey and Research Directions	Ragaa A. Shehab; Mohammed Taher; Hoda mohamed	211	A Word Embedding Model Learned from Political Tweets	Noufa A Alnajran	216	FPGA Implementation of Cyclostationary Feature Detector for Cognitive Radio OFDM Signals	Mohamed Ali Barakat
86		Detecting DNS Reflection Amplification DDoS Attack Originating from the Cloud	Ahmed K Soliman; Hoda Korashy; Cherif Salama	83	Predicting Personality Traits from Social Media Using Text Semantics	Mariam M Hassanein; Wedad Hussein ; Sherine Rady; Tarek Gharib	132	A new advanced design and implementation of laser warning system	Mazhar Tayel; mohamed shehata; Amir essam Almslmany
209		Security Perspective in RAMI 4.0	Marianne Azer	175	Detecting Spam Tweets using Character N-gram Features	Mokhtar Ashour ; Cherif Salama; M. Watheq El-Kharashi	178	Digital Design using CMOS and Hybrid CMOS/Memristor Gates: A comparative Study	nada i affify; sara salah messallam
50		A Survey on Multi-Sensor Fusion Techniques in IoT for Healthcare	Randa Mohammed Abdelmonem; Eman shaaban	199	Supervised Learning Approach for Twitter Credibility Detection	Noha Yehia Hassan; Mohammed Haggag ; Wael Gomaa ; Ghada Mohammed	158	Dynamic Thread Mapping for Maximizing Performance in Power-Efficient Multi-core Systems	Veronia Iskandar; Cherif Salama; Mohamed Taher
210		A Real-Time Social Network- Based Traffic Monitoring & Vehicle Tracking System	Marianne Azer; Ahmed Elshafee	29	A new computational method for solving weakly singular Fredholm integral equations of the first kind	Emil Shoukralla; Magdy Kamel; M A Markos	42	Instructions with Indirect Register Indexing for Multiple and Exponential Operations to Improve Performance	Nagi Mekhiel
16:00 - 16:15		Coffee Break							
	PC2: Parallel and Cloud Computing II (Ramsis I)			CA2: Computer Architecture II (Ramsis II)			SE2: Software Engineering II (Anni Annex)		
	Chair: Prof. Tarek GHARIB			Chair: Dr. Cherif SALAMA			Chair: Dr. Ashraf ABDELRAOUF		
	16:15 - 18:00	112	Towards a Full Big Data Based Solution for Computationally Intensive Problems	Mirvat M Al-Qutbi; Heba khaled; Rania Elgohary; Hossam Elshafee	52	Autonomous Car Implementation Based on CAN Bus Protocol for IoT Applications	Ahmed Elshaer; Mohamed Elsayed Harb	117	Offline Signature Verification and Forgery Detection Approach
138		Sub-Grid partitioning algorithm for distributed outlier Detection on big data	mohamed sakr; Walid atwa; Arabi Keshk	15	Mixed-criticality Hierarchical Scheduling for TI-RTOS	Hesham hussien; Eman shaaban; Said Ghoniemy	2	Towards Automatic Classification of Breast Cancer Histopathological Image	Ashraf ali mohamed; Essam Elelimy
3		Service Flow Management with Multi-objective Constraints in Heterogeneous Computing	Medhat A Tawfeek; Ahmed AbdulHamed	164	Mitigation of Soft and Hard Errors in FPGA-Based Pacemakers	Gehad Ismail Alkady	168	Multimodal Pain Level Recognition using Majority Voting Technique	Amir Salah; Mahmoud Khalil; Hazem Abbas
180		Quantum Cryptography Over Multi-Sites Networks	Hossam mohamed abdelrahman; Ayman Bahaa-Eldin; Khaled Kirah				225	Oral Epithelial Dysplasia Computer Aided Diagnostic Approach	David Adel, John Mounir, Mahmoud El-Shafey, Youssef Alaa Eldin, Noha El Masry, Ashraf AbdelRaouf, Ihab S. Abd Elhamid
141		A Distributed Simulation of Bio-interpreted (Coloured) Stochastic Petri Nets	Asmaa Magdy Badawy; Mostafa Herajy; wael awad				226	Handwritten Signature Verification using Haar Cascade Classifier Approach	Ashraf AbdelRaouf, Diana Salama
							82	A New Algorithm for Repairing Web-Locators Using Optimization Techniques	Hadeel M Eladawy ; Amr Mohamed ; Sameh Salem
							35	A Multistage Binarization Technique for the Degraded Document Images	Usama Wadie Aziz; Hossam Abdelmunim; Mahmoud Khalil

Wednesday December 19th, 2018

09:00 - 09:30	Registration								
09:30 - 11:00	Plenary Talk (III) (Ramsis I)								
	3	Enabling Technologies for Internet of Things: Licensed and Unlicensed Techniques					Prof. Walaa HAMOUDA, Concordia University, Canada		
	Panel:	Prof. Salwa ELRAMLY							
11:00 - 11:15	Coffee Break								
11:15 - 13:00	WN: Wireless Networks (Ramsis I)			DSP: Digital Signal Processing (Ramsis II)			CNS1: Computer Networks & Security I (Anni Annex)		
	Chair: Dr. Hussein ABDEL ATTY			Chair: Dr. Seif ELDAWLATLY			Chair: Dr. Hesham FARAG		
	102	Approaching Rutted Road-Segment Alert Using Smartphone	Asmaa AbdulQawy; Reem Elkhoul; Elsayed. A. Sallam	174	Multimedia SDR-based Cooperative Communication	Ahmed Prince	47	Compress and Forward Cooperative Relay in Device -to-Device Communication with and without Coding Techniques	Rna Ghallab; Ali Sakr; mona shokair; Atef Abou el-azam
	56	Group Sparsity Based Signal Detection for Massive Multi User Spatial Modulation Cyclic Prefix Single Carrier Systems	sahar said; waleed saad; mona shokair; sayed el-araby	34	Modified Alternating Signal (AS) scheme for Reducing PAPR of FBMC/OQAM Signal	imad shaheen; Abdelhalim Zekry; Fatma Newagy; Reem Ibrahim	194	Hardware Assisted Homomorphic Encryption in a Real Time VOIP Conference Application	Hisham M Dahshan
	8	Backup Channel Selection Approach for Spectrum Handoff in Cognitive Radio Networks	Shimaa Ali; Mona Shokair; Moawad Dessoky; Nagy Messiha	184	Moving Cast Shadow Detection Based on Fusion of Local Binary Pattern and Gabor Features	Hend F Bakr; Ahmed Hamad; Khalid Amin	183	Data Inspection in SDN network	Soliman sarhan; Ayman Bahaa-Eldin; Mohamed Sobh
	6	A Proposed Modified Proportional Fairness Scheduling (MPF-BCQI) Algorithm with Best CQI Consideration for LTE-A Networks	Mai Ali Ibraheem; Nada Elshenawy; Amany M Sarhan	68	Robust Audio-Visual Speech Recognition System based on Gabor Features and Dynamic Stream Weight Adaption	Ali Saudi; Mahmoud Khalil; Hazem Abbas	191	Performance Analysis of the Number Theoretic Transform for lattice-based cryptography	Ayman Mohsen; Ayman Bahaa-Eldin; Mohamed Sobh
	136	Power Penalty and Bit Error Rate Investigation due to Crosstalk in Bidirectional Optical Transceiver	gamal gamal hussien	106	Multi-Temporal-Resolution Technique for Action Recognition using C3D: Experimental Study	Bassel S. Chawky; Mohammed Maray; Howida Shedeed	123	WPA-WPA2 PSK Cracking Implementation on Parallel Platforms	Ahmed Ismail Abdelrahman; Heba khaled; Eman shaaban; Wail Elkilani
	43	Improving the Decoding Performance of High-Rate GLDPC Codes in Low Error-Rate Applications	Sherif Ismail Elsanadily; Ashraf Mahran; Osama Elghandour	189	Binarization of Colored Document Images using Spectral Clustering	Enas Mahmoud Mohamed	179	Biogeography Based Optimization Algorithm for Efficient RFID Reader Deployment	Amany A Arafa; Eman Zahran; Hassan Saleh; Moawed El-Desouky
	181	Anonymous Routing Protocols in MANETs, a Security Comparative Analysis	Ayman M El-Zoghby; Marianne Azer	196	Emotion Recognition by Facial Features using Recurrent Neural Networks	Amr Mostafa; Mahmoud Khalil; Hazem Abbas	109	Performance of LTE-A Heterogeneous Network using NHFR Method	nora ahmed ali
							203	Malware Incident Handling and Analysis Workflow	Marianne Azer
13:00 - 14:15	Lunch (Restaurant)								

14:15 - 16:00	CS: Control Systems and Robotics (Ramsis I)			CCS: Communication Circuits and Systems (Ramsis II)			CNS3: Computer Networks & Security III (Anni Annex)		
	Chair: Dr. Bassem ABDALLAH			Chair: Dr. Hussein ABDEL ATTY			Chair: Dr. Hassan SHEHATAH		
	126	Fuzzy Logic Based Collision Avoidance System For Autonomous Navigation Vehicle	Hossam Elsayed; Bassem Abdullah; Gamal Aly	51	Dual-Source Energy Harvesting System using TDM with Dynamic MPPT and Wide-Range ZCS	Yehia Hamdy yehia	161	Secure WiFi Fingerprinting-based Localization	Mona Abo El Naga
84	Augmenting Multi-Objective Genetic Algorithm and Dynamic Programming for Online Coverage Path Planning	Mina Girgis Sadek	177	Outage Performance of NOMA-based DF Relay Sharing Networks over Nakagami-Fading Channels	Shady M. Ibraheem; Walid Bedawy; Waleed saad; Mona Shokair	185	Reliability and scalability in SDN network	Mohamed Abbas Aglan; Ayman Bahaa-Eldin; Mohamed Sobh	
73	Design of a Backstepping Controller based on an Adaptive Elman Neural Network for a Two-Link Robotic System	Aliaa mohamed sadek; Wael Elawady	135	Efficient Transceiver Design for Digital Video Broadcast based OFDM and 4QAM	gamal gamal hussien	182	Software Defined Networking: Attacks and Countermeasures	Nada Abd Elazim; Ayman Bahaa-Eldin; Mohamed Sobh	
57	Position Control of IT-Robot manipulator using Multi-Loop FOPID	reham hassan mohammed	170	Design and Implementation of PV MPPT Controller based on Modified P&O algorithm using FPGA for satellite systems	Hatem Taha; R. M. Mostafa; Usama Abouzayed; Fawzy Eltohamy	190	An LTE-based Multicast Scheduling Technique for Critical Smart Grid Communications	Mariam ElHussien; Yasser Gadallah; Hani Ragai	
187	Obfuscation of Digital Systems Using Isomorphic Cells and Split Fabrication	Mohamad Masoud; Yousra Mohsen; M. Watheq El-Kharashi	169	A high-Speed Electro-Optic Modulator with Optimized Electrode Positions	Hany Mahrous; Michael Gad; Mona El Sabbagh; Mostafa Fedawy; W. Fikry	140	Prolonging Mars Space Mission Lifetime	Sameh A. Ibrahim; Mohamed A Ibrahim; Hassanien Amer; nora ahmed ali; Ahmed Khattab; Ramez Danud	
	Ontological Classification for Heritage Computer Aided Design	Noha Saleeb	176	Strip Waveguide Enabling Low Loss for Silicon on Silica Technology in the MIR	Mina Labib; Michael Gad; Yasser Sabry; Diaa Khalil	139	Enhancing Recommendations in Mobile Social Networks	Hadeer hassan shahin; Tamer Abdelkader; Rania El Gohary	
16:00 - 16:15	Coffee Break								
16:15 - 18:00	SE3: Software Engineering III (Ramsis I)			SAI: Soft Computing and AI techniques (Ramsis II)			MS: Modelling and Simulation (Anni Annex)		
	Chair: Dr. Ayman EZZAT			Chair: Dr. Hossam ABDELMUNIM			Chair: Prof. Mostafa GOMAA		
	38	Suspicious Human Activity Recognition Using Statistical Features	hanan Samir khiry; Hossam Abdelmunim	224	VirNet: Deep attention model for viral reads identification	Aly Abdel Kareem	110	An Efficient Approach for the Hybrid Simulation of Intracellular Calcium Dynamics	Amr Ismail; Mostafa Herajy; Elsayed Atlam
145	Restoration of Spatially-Varying Motion-Blurred Images	Shereen El-Shekheby; Rehab Abdel-Kader; Fayez W. Zaki	130	Efficient Association Rules Mining from Streaming Data With A Fault Tolerance	Amr Aly Abd Elaty	111	Modeling Procedures For Breast Cancer Diagnosis Based On Clinical Elastography Images	Mohamed A. Naser; Ahmed M. Sayed; Ashraf M Wahba; Mohamed A. A. Eldosoky	
198	A Tool for VLIW Processors Code Optimizing	Tomas Fryza	219	The Impact of Spam Reviews on Feature-based Sentiment Analysis	Nagwa M.K. Saeed, Nivin A. Helal, Nagwa L. Badr, Tarek F. Gharib	118	Improving the Simulation Performance of Colored Hybrid Petri Nets by the Graphics Processing Units	Ismail Elansary; Mostafa Herajy	
60	Extracting valuable associations among textural features of medical images	fatma Ismail	32	An Optimized Dual Watermarking Scheme for Color Images	Layth Dhafer Shukur Al-Khafaji; Dr. Saad Darwish	67	Modified Hetero-Gate-Dielectric TFET for Improved Analog and Digital Performance	Mohamed Elnaggar; Ahmed Shaker; Mostafa Fedawy	
222	Amelio-rater: Detection and Classification of Driving Abnormal Behaviours for Automated Ratings and Real-Time Monitoring	Noha ElMasry; Ayman Atia; Jiro Tanaka	131	Camera Pose Estimation: What is the computationally efficient approach?	Emad W William; Hossam Abdelmunim; Sherif Hammad; Maged Ghoneima	55	Bearing Only Tracking in Cluttered Environment Using Seismic Sensors	Rahma Reda Moawad; Hamed Nofal; Moawed El-Desouky	
221	Role of SNSs in Digital Transformation	Heba Sayed	91	A Proposed Model For Denoising Breast Mammogram Images	Ghada Hamed Aly; Mohamed Tolba; Mohammed Maray ; Safaa Amin	202	Mammogram-Based Cancer Detection Using Deep Convolutional Neural Networks	Al Hussein Ahmed Ibrahim; Mohammed Abdel-Megeed Salem	
			31	Proposed Prepaid System for Electricity Bills in Iraq	ashwaq mahmood alabaichi				