

Tuesday December 18th, 2018

08:30 - 09:00	Registration								
09:00 - 09:30	Opening Session (Ramsis I)								
09:30 - 11:00	Plenary Talk (I) (Ramsis I)								
	1	Intelligent Vision for Smart Connected and Autonomous Cars					Prof. A. Boukerche, University of Ottawa, Canada		
	Panel:								
11:00 - 11:15	Coffee Break								
11:15 - 13:00	AI: Artificial Intelligence (Ramsis I)			BM: Biomedical Engineering (Ramsis II)			DL: Deep Learning (Anni Annex)		
	Chair:			Chair:			Chair:		
	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; Aboulmaged Mourad	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
	70	Seasonal Multi-temporal Pixel Based Crop Types and Land Cover Classification for Satellite Images Using Convolutional Neural Networks	Noureddin Laban; Bassam Abdellatif; Hala M. Ebeid; Howadia Saher; Mayar A. Shafaei	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	Mohammed A.-M. Salem; Hala Mousher; Maryam Al Borno	129	Daily Activity Recognition Using Wearable Sensors Via Machine Learning and Feature Selection	Anmad 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

13:00 - 14:15	Lunch (Restaurant)								
14:15 - 16:00	PC1: Parallel and Cloud Computing I (Ramsis I)			SE1: Software Engineering I (Ramsis II)			CA1: Computer Architecture I (Anni Annex)		
	Chair:			Chair:			Chair:		
	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	Mohamed Ali Barakat
	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 afify; 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								
16:15 - 18:00	PC2: Parallel and Cloud Computing II (Ramsis I)			CA2: Computer Architecture II (Ramsis II)			SE2: Software Engineering II (Anni Annex)		
	Chair:			Chair:			Chair:		
	112	Towards a Full Big Data Based Solution for Computationally Intensive Problems	Imrva M Al-Qutbi, Heba khaled; Rania Elgohary; Hossam Elhossam	52	Autonomous Car Implementation Based on CAN Bus Protocol for IoT Applications	Ahmed Elshaer; Mohamed Elsayed Harb	117	Offline Siganture Verification and Forgery Detection Approach	Dr. Ayman Nabil ; Taraggy Ghanim
	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		Ontological Classification for Heritage Computer Aided Design	Noha Saleeb	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 (II) (Ramsis I)								
	2						Prof. Walaa Hamouda, Concordia University, Canada		
	Panel:								
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:			Chair:			Chair:		
	102	Approaching Rutted Road-Segment Alert Using Smartphone	Asmaa AbdulQawy; Reem Elkhoully; 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; Moawad 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:			Chair:			Chair:		
	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-m Fading Channels	Shady M. Ibraneem; 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	Harry Manrous, Michael Gad; Mona El Sabbagh; Mostafa Fedawy; W. Elsayed	140	Prolonging Mars Space Mission Lifetime	Sameh A. Ibrahim; Mohamed A Ibrahim; Hassanien Amer; nora ahmed ali; Ahmed Khattab; Ramez Daoud
				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:			Chair:			Chair:		
	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	Tarek 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			