

Tuesday December 17th, 2019

08:30 - 09:00	Registration											
09:00 - 09:30	Opening Session (Ramsis I)											
09:30 - 10:45	Plenary Talk (Ramsis I)											
1	Measuring Content Engagement – The Future of Artificial Intelligence in Media Production						Prof. Wael Badawy,					
Panel:	Prof. Gamal ALY											
10:45 - 11:00	Coffee Break											
11:00 - 13:00	AI1: Artificial Intelligence I (Ramsis I)				PC: Parallel and Cloud Computing (Ramsis II)				CNS: Computer Networks & Security (Tut)			
	Chair: Dr. Hazem SAID				Chair: Dr. Bassem ABDALLAH				Chair: Dr. Mohamed SOBH			
	9	Image Recovery from Incomplete Walsh Measurements Based on Orthogonal Matching Pursuit	rasha shoitan	17	Detecting Deviations in Business Processes Using Process Mining	Mohamed Ahmed Amin ; Essam Shaaban ; Mahmoud Abdellatif	11	A Secure MQTT Protocol, Telemedicine IoT Case Study	Eman Mohamed Elemam ; Ayman Bahaa-Eldin ; Nabil Shaker ; Mohamed Sobh			
	20	Automatic Detection for Student Behaviors in a group presentation	Ahmed F Mohamed ; Georgios A Dafoulas ; Manal Ismail	59	A Framework for Video Transmission Scheduling Using Concurrent Multipath Transfer	Hatem Fetoh Fetoh ; Ahmad hamad ; Khalid Amin	14	A Computationally Efficient Pairing-Free Group Key Distribution Scheme For Vehicular Ad-Hoc Network	Eman F Abouelkeir			
	31	Emotion Recognition In Videos For Low-Memory Systems Using Deep-Learning	Ahmed Fathy ; Hazem Abbas ; Mahmoud Khalil	72	A Proposed Framework for Improving Analysis of Big Unstructured Data in Social Media	mohamed Elsayed Hassan	51	Quantum Attacks and Defenses for Proof-of-Stake	Amr M Khalifa ; Ayman Bahaa-Eldin ; Mohamed Sobh			
	49	Deep Architectures for Abstractive Text Summarization in Multiple Languages	Amr M Zaki ; Mahmoud Khalil ; Hazem Abbas	74	Enhancing Recursive brute Force Algorithm with Static Memory Allocation: Solving Motif Finding Problem as a Case Study	Heba khaled	52	Blockchain and its Alternative Distributed Ledgers – A Survey	Amr M Khalifa ; Ayman Bahaa-Eldin ; Mohamed Sobh			
	50	A Modified Inception-v4 For Imbalanced Skin Cancer Classification Dataset	Taha Emara ; Heba Afify ; Fatma Helmy ; Aboul Ella Hassanien	83	Improving Golay Code Using Hashing Technique	sara salama ; hatem abdelkader ; Rashed Salem	55	An Enhanced Threat Hunter based Machine Learning: An Intelligent Network Intrusion Detection System	sayed salah Ahmed ; Ayman Bahaa-Eldin			
	64	EXTRA: An extended radial mean response pattern for hand gesture recognition	Santosh Kumar vipparthi ; monu verma ; Gopa Bhaumik ; Mahesh Chandra Govil	111	Error Detection and Correction Code Using Density-based Clustering Algorithm	sara salama	110	Multipath traffic engineering for Software Defined Networking	karim alaa abdelkader ; Ayman Bahaa-Eldin ; Mohamed Sobh			
	106	Convolutional Neural Network with Dilated Anchors for Object Detection in Very High Resolution Satellite Images	Nourelain Laban ; Bassam Abdellatif ; Hala M. Ebied ; Howida Shedeed ; Mohamed F. Tolba	116	A Survey of Blockchain Applications in IoT Systems	Diaa Noby ; Ahmed Khattab	130	An Enhanced Secure System for Vehicle RFID based identification	Mohamed Ibrahim ; Ayman Bahaa-Eldin ; Mohamed Sobh			
	115	Deep-Learning Ensemble for Offline Arabic Handwritten Words Recognition	MOHAMED Awni HAMED ; Mahmoud Khalil ; Hazem Abbas	132	Implementing Arabic Handwritten Recognition Approach using Cloud Computing and Google APIs on a mobile application	Ashraf AbdelRaouf ; Nada Shorim ; Taraggy Ghanim	131	ACOSDN – Ant Colony Optimization Algorithm for Dynamic Routing In Software Defined Networking	osama abd-el-Raof			
13:00 - 14:00	Lunch (Restaurant)											
14:00 - 16:00	CA: Computer Architecture (Ramsis I)				SE: Software Engineering (Ramsis II)				MS: Modelling and Simulation (Tut)			
	Chair: Dr. Hassan SHEHATAH				Chair: Prof. Hani Kamal MAHDI				Chair: Prof. Mostafa GOMAA			
	10	Design and Implementation of Robust Firefighting/Intruder Detection System Using Fuzzy Logic Decision Control	Ahmed ElShafee ; Marianne Azer	15	Scoring a Data Warehouse model for Homeland Security applications	semeh ben salem ; sami nauouli ; zied chtourou	3	Compact aggregate short-lived signatures for consortium consensus protocols	sherif M Samir ; Hoda Korashy ; Hazem Said			
	26	Parallel Computer For Face Recognition Using Artificial Intelligence	Nagi Mekhriel	19	Multi-techniques method for Solving Volterra Integral Equations of the Second Kind	Emil Shoukrala ; Basma Magdy	35	A New Homomorphic Message Authentication Code Scheme for Network Coding	Ahmed K Hamed ; Asharf Diaa ; Hisham Dahshan			
	33	FPGA Implementation of an Image Compression and Reconstruction System for the Onboard Radar Using the Compressive Sensing	Mohamed Mahran Ahmed ; Hassan Shehata ; Sara Mohammed Hassan	28	Efficiency Improvement Approach of Deep Web Data Extraction	Mona Nasr ; Hanan Fahmy ; mohamed thabet	47	Fault Detection and Isolation Indices for Large-Scale Systems	Lamiaa M. Elshenawy			
	56	DNA Computing for RGB image Encryption with Genetic Algorithm	Hany H Hussien	45	Mobile-based Environment to Facilitate Rehabilitation of Adults Post-Injuries	Maha Mohy ; Ahmed Afifi ; Khalid Amin	57	States and Power Consumption Estimation for NILM	neveen mohamed hussien			
	86	Design and Implementation of a Multistage Image Compression and Reconstruction System Based on the Orthogonal Matching Pursuit Using FPGA	Mohamed Mahran Ahmed ; Hassan Shehata ; Sara Mohammed Hassan	87	SNS and Digital Communication Across Nations	Heba Sayed	68	EnQuad: a publicly-available simulator for quantum key distribution protocols	Mohamed Abdelgawad			
	88	Comparison of Video Face Detection methods Using HSV, HSL and HSI Color Spaces	Mohamed Heshmat ; Seham Elaw ; Wala Abd-Elhafiez	91	Improve Performance of Indoor Positioning System using BLE	Islam Mohamed Essa	99	Robotic Façade Cleaning System for High-Rise Building	hisham elsherif ; HUSSEIN FAWZY			
	124	Heterogeneous Redundancy for PCB Track Failures: An Automotive Example	Gehad Ismail Alkady ; Hassanien Amer ; Ihab Adly	105	A Review of Machine Learning Approaches for Epileptic Seizure Prediction	Sahar Selim ; Ethar Amr ; Hisham Othman ; Wael Abouelsaadat ; Mohammed A.-M. Salem	108	Implementation of A Homomorphic MAC Scheme in a Transparent Hardware Appliance for Network Coding	Ahmed K Hamed ; Asharf Diaa ; Hisham Dahshan			
	127	Hardware-Assisted Virtualization for Heterogeneous Automotive Applications	Mohamed Mounir	112	SNS Users Behavioral Typology in Egypt	Heba Sayed ; Georgios A Dafoulas	126	SCMA: A Sparse Cooperative Multi-Agent Framework for Adaptive Traffic Signal Control	Mahmoud Ramadan Nawar ; Ahmed Fares ; Abdelwahab Alsammak			
137	Automatic Recognition of Fish Diseases in Fish Farms	Ahmed Waleed, Hadeer Medhat, Mariam Esmail, Kareem Osama, Radwa Samy, Taraggy M.Ghanim	122	pyDAW: A Pragmatic CLI for Digital Audio Processing	Peter Hassaballah ; Mohammed Abdel-Megeed Salem ; Hisham Othman	136	Traffic Classification using Neural Networks	Abdullah Essam, Ayman M. Bahaa-Eldin, and Mohammed Sobh				
16:00 - 16:15	Coffee Break											
16:15 - 18:30	AI2: Artificial Intelligence II (Ramsis I)				BM: Biomedical Engineering (Ramsis II)				CCS: Communication Circuits and Systems (Tut)			
	Chair: Dr. Hossam ABDELMUNIM				Chair: Dr. Seif ELDAWLATLY				Chair: Dr. Eman GAWISH			
	36	Incipient Fault Detection of Electric Power Transformers Using Fuzzy Logic Based on Roger's and IEC Methods	Fatma Mohamed ; Khaled Hosny ; Tamer TB Barakat	7	Statistical and Time Series Analysis of Accelerometer Signals for Human Activity Recognition	Walid Gomaa	18	Improvement the Performance of Spectrum Sensing in Cognitive Radio using MIMO-Alamouti Scheme	Dina Mohamed Ellaithy ; Mohamed Ismail Ismail Ibrahim			
	41	A GRASP-Simulated Annealing approach applied to solve Multi-Processor Task Scheduling problems	abla Saad elsaid ; Ahmed Kafaly ; osama abd-el-Raof ; Nancy A. El-Hefnawy	62	Automatic Enhancement of Two-Dimensional Gel electrophoresis images using Denoising Autoencoder	Aya Ahmed ; Wessam El-Beahdy ; Aliaa Youssif	25	Power Efficient Routing Protocol (AODV) for IoT Based Livestock Applications	Shahenda S Abou Emira ; Khaled Y. Yousef ; Mohamed A. Abouelatta			
	98	Two backpropagation algorithms to estimate the average armature temperature and resistance and speed of brushed DC machine	Hacene Mellah ; Kamel Eddine Hemsas ; Rachid TALEB	78	Distributed Electronic Health Records Semantic Interoperability Based on a Fuzzy Ontology Architecture	Ebtasam Adel ; Sherif Barakata ; MOHAMMED M ELMOGOY	27	An Energy-Aware Clustering/Routing Algorithm Using A* Mechanism for Wireless Sensor	Nelly Fetoh Elshafeay			
	113	A Taxonomy of Discretization Techniques based on Class Labels and Attributes' Relationship	Hanan Elhilbawi ; Seif Eldawlatly ; Hani Mahdi	79	A Multi-Label Computer-aided Diagnoses System for Detecting and Diagnosing Diabetic Retinopathy	Eman AbdelMaksoud ; Sherif Barakata ; MOHAMMED M ELMOGOY	58	On the Performance of Power Allocation Schemes in Ultra Dense Networks	Samy S. Soliman ; sara khaled Alaraby ; Yasmine Fahmy			
	128	Clustering Research Papers using Optimized Self Organized Maps by Genetic Algorithm	Reham Fathy Mohamed ; Cherif Salama ; Hani Mahdi	81	Alzheimer's Disease Integrated Ontology (ADIO)	Nora Shoaip ; Sherif Barakata ; MOHAMMED M ELMOGOY	60	Microstrip Patch Antenna Linear Arrays for Brain Tumor Detection	Ahmed Elkorany ; Rehab M. Helmy ; Adel A Saleeb ; Nihal F. Areeed			
	129	Low-Cost Traffic Control using Reinforcement Learning	Ahmed F AbouElhamayed ; Cherif Salama ; Hani Mahdi	90	Swarm Intelligence Optimization for Feature Selection of Biomolecules	Walaa Alkady ; Walaa Gad ; Khaled Bahnasy	89	Silicon photonic coupled-ring resonator in nested configuration comprising different length scales	Rabab A. Shalaby ; George Adib ; Yasser Sabry ; Michael Gad ; Diaa Khalil			
	133	A new FISH Signals Fusion Detection approach for diagnosing Chronic Myeloid Leukemia	Ashraf AbdelRaouf	104	Impact of segmentation on iris liveness detection	Manar R Ramzy	92	Optimized Resource and Power Allocation for Sum Rate Maximization in D2D-Assisted Caching Networks	Ahmed Salah Ali ; Khaled Mohamed Naguib			
	134	A new challenge on video recommendation by content	Aly Mohamed, Amr Sherif, Foad Osama, Youssef Roshdy, Mennat Allah Hassan, Walaa H.El	125	A Computer Aided Detection System for Breast Cancer in the Mammograms Based on Particle Swarm Optimization Algorithm	Nesma Elsokkary ; Amany A Arafat ; Ahmed Assad ; Hesham Hefny	100	Salp Swarm Optimization Approach for Maximization The Lifetime of Wireless Sensor Network	Mohammed M. Ahmed			
135	Natural Language Understanding for Simultaneous Conference Interpretation	Mostafa Farghaly, Wessam Ahmed, Nada Shorim, Ashraf AbdelRaouf, Sama				123	Analog Control Algorithm-Based A Photovoltaic Energy Harvesting System for Low-Power Medical Applications	Saeed Mohsen ; Khaled Y. Yousef ; Mohamed A. Abouelatta ; Abdelhalim Zekry				