

International Conference on Computer Engineering and Systems 2021

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Wednesday December 15th, 2021			
09:00 - 09:30	Opening		
09:30 - 11:30	Plenary Talk		
		Atmospheric Water Generator Design and Implementation	
	Panel:	Prof. Gamal ALY	
11:30 - 11:45	Break		
11:45 - 13:45	AI1: Artificial Intelligence I		
	Chair: Dr. Yomna Safaa-Eldin		
	15	AI for Acoustic Early Detection of the Red Palm Weevil	Abdelfattah, Asmaa M*; Hany, Ahmed; Adly, Ihab; Atwa, Atwa; Ragai, Hani
	40	Emotion Detection using Deep Learning	Korashy, Hoda; Medhat, Walaa; Shaaban, Yasmin
	43	TCCFD: An Efficient Tree-based Framework for Credit Card Fraud Detection	Own, Reem*; Mohamed, Amr; Salem, Sameh
	45	Survey of Machine Learning HIDS Techniques	Soliman, Khaled Mohamed*; Sobh, Mohamed; Bahaa-Eldin, Ayman M.
	51	Comparative study between transfer learning models to detect shrimp diseases	Ashraf, Abdelaziz*; Atia, Ayman
	55	Automated Dental Diagnosis using Deep Learning	Alsakary, Abdelaziz; Abdulaal, Kareem M.; Shaban, Reem; Elghetany, Asmaa; Mahmoud, Hany; Selim, Sahar
	63	In-Vehicle Intrusion Detection based on Deep Learning Attention technique	Bahaa-Eldin, Ayman M.*; Sobh, Mohamed; Nasr Eldin, Ahmed
13:45 - 14:00	Break		
14:00 - 16:00	CS: Control Systems		
	Chair: Dr. Islam ELMADDAH		
	12	Autonomous Non-Destructive Assembly/Disassembly of Electronic Components using A Robotic Arm	Farhan, Abdelrahman Salah; Bassiouny, Abdelrhman; Afifi, Youssef Taher*; Gamil, Abdelrhman; Alsheikh, Mohammed; Kamal, Amr; Shawki, Khaled; Bahour, Michael; Awad,
	17	Parallelization of One Dimensional First Fit Decreasing Algorithm	Wessa, Eriny*; Atia, Ayman
	22	4 DOFs High-Speed Pick and Place Delta Robot	Kozman, Peter A*; Hilmy, Mohamed; Makin, Omar; Maged, Shady Ahmed; Awad, Mohammed; Hammad, Youssef; Hagag, Essam-Eldin; Ilias, George; Ahmed, Omar
	23	Meta Reinforcement Learning for Robust and Adaptable Robotic Assembly Tasks	Hafez, Ahmed M*; Awad, Mohammed; Gomaa, Walid; Maged, Shady Ahmed
	46	Line of Sight Control Strategies for Inertial Stabilization Platforms: Comparative Study	Azzam, Islam S*; Wassal, Amr ; Maged, Shady Ahmed
	47	Effective Hybridization of Biogeography Based Optimization and Simulated Annealing	Zahrn, Eman; Arafa, Amany A*; Saleh, Hassan; El-Desouky, Moawed
	50	A Dynamic Cooperative Multi-Agent Online Coverage Path Planning Algorithm	Sadek, Mina Girgis*; Mohamed, Amr; El-Garhy, Ahmed
16:00 - 16:15	Break		
16:15 - 18:15	CA: Computer Architecture		
	Chair: Dr. Cherif SALAMA		
	5	Energy Optimization by Using Last Level Cache Partitioning for Multicore Platforms	Nour, Samar M*; heikal, Shahira; Nour, Samar; Salem, Sameh
	25	Securing Hardware from Malicious Attacks	Abdelgawad, Mohamed*; Azer, Marianne
	36	Low-overhead Solutions For Preventing Information Leakage Due To Hardware Trojan Horses	ali, nora ahmed*; Shokry, Beatrice; Rumman, Mahmoud ; ElSayed, Hany; Amer, Hassanien; Elsoudani, Magdy
	37	A Configurable Waveform Generator for Radar Applications	hussein, kamal*; Zekry, Abdelhalim ; Abouelatta, Mohamed A. ; Mabrouk, Mohamed
	42	A 0.75-5GHz Wide-Range 8-Phases Delay-Locked Loop With Low Noise Charge Pump	Taalab, Peter Gaied*
	49	Dependability of Electronic Systems in the International Space Station	Shaker, Manar Negm Eldin*; Tawakol, Nada; Amer, Hassanien; Daoud, Ramez; Adly, Ihab

Thursday December 16th, 2021

AD: Autonomous Driving			
Chair: Dr. Hassan SHEHATAH			
09:00 - 11:00	29	A Cyber-Security Prototype Module for Smart Bikes	Sabry, Nouran*; Abobkr, Mostafa; ElHayani, Mostafa; SOUBRA, Hassan
	30	B2X Communication System for Smart Autonomous Bikes	Abdelrahman, Abdelrahman*; Youssef, Rafik; ElHayani, Mostafa; SOUBRA, Hassan
	38	Path Planning Algorithm for Dynamic Obstacles Based on Support Vector Machines Towards Autonomous Navigation	Nossier, Ehab Ahmed*; Abdelwahab, Mohamed; Ibrahim, Fady; Abdelaziz, Mohamed
	39	Multi-Obstacle Avoidance Algorithm for Autonomous Vehicles	Nossier, Ehab Ahmed*; Ibrahim, Fady; AbdelWahab, Mohamed; Abdelaziz, Mohamed
	41	Adaptive Pure-Pursuit Controller Based on Particle Swarm Optimization (PSO-Pure-Pursuit)	ElMoniem, Ahmed Abd*; Afifi, Youssef Taher; Maged, Shady Ahmed; Abdelaziz, Mohamed; Hammad, Sherif
	44	Improving Depth Estimation using Location Information	Zaitoon, AHMED Mohamed*; Abd El Munim, Hossam El Din Hassan; Abbas, Hazem
	58	Recent advances in vision-based vehicle re-identification datasets and methods	ElRashidy, AbdAllah*; Ghoneima, Maged; Abd El Munim, Hossam El Din Hassan; Hammad, Sherif
Break			
AI2: Artificial Intelligence II			
Chair: Dr. Bassem ABDALLAH			
11:15 - 13:15	2	Multilabel Movie Genre Classification from Movie Subtitle: Parameter Optimized Hybrid Classifier	Hasan, Md. Mehedi*; Dip, Sadia Tamim; Kamruzzaman, T. M.; Salehin, Imrus; Akter, Mst Sonia
	3	Movie Subtitle Document Classification Using Unsupervised Machine Learning Approach	Hasan, Md. Mehedi*; Dip, Sadia Tamim; Kamruzzaman, T. M.; Salehin, Imrus; Akter, Ms Sonia
	9	Automatically Designing CNN Architectures for Acoustic Scene Classification	Hasan, Noha W*; Saudi, Ali; Khalil, Mahmoud; Abbas, Hazem
	10	E-DARTS: Enhanced Differentiable Architecture Search for Acoustic Scene Classification	Hasan, Noha W*; Saudi, Ali; Khalil, Mahmoud; Abbas, Hazem
	57	Electromyography Signal Classification using Convolution Neural Network Architecture for Bionic Arm High Level Control	Farag, Hamdy O*; Awad, Mohammed; Baioumy, Ahmed; Shawky, Abdelrahman; Taha, Abdelrahman; Amr, Aya; Amin, Youstina; Mohammed, Omaira; Salah, Bothayna; Attia, Yomna;
	62	MetaFlow: A Meta Learning With Normalizing Flows Approach For Few Shots Learning	Ehab, Ahmed*; Salama, Cherif; Khalil, Mahmoud
	59	A Deep Neural Network for Classification of Thoracic Diseases on Chest Radiography and Covid-19 Detection	Al Rubeaai, Sarab; Abd, Mehmood; Abdel-Raheem, Esam*
Break			
CN: Computer Networks & Security			
Chair: Dr. Hesham FARAG			
13:30 - 14:30	26	A Distributed Intrusion Detection System for Ad Hoc Networks	Azer, Marianne*; Hairab, Belal Ibrahim
	31	IEEE 802.11 ah for Optimizing the Collision Probability in the traffic data of IoT smart city	S. Ibrahim, Amin*; Youssef, Khaled Y.
	56	Native Mobile Applications UI code conversion	El-kaliouby, Shaymaa Sayed*; Selim, Sahar; Hassan, Ahmed
Break			
BM: Biomedical Engineering			
Chair: Prof. Hossam ABDELMUNIM			
14:45 - 15:45	53	An influence of Radon Transform Technique on Handwriting Task for the Detection of Parkinson's disease	ABDELBASET, SARA*; El-Wakad, Tarek Ibrahim; A. Eldesoky, Mohamed; Mostafa, Ahmed
	54	Automated Upper Limb Motor Functions Assessment System Using One-Class Support Vector Machine	Mohamed, Abdelrahman A*; Awad, Mohammed; Gaber, Mohamed; Maged, Shady Ahmed
	60	An Ensemble Classification Approach for Recognizing Steady-state Visually Evoked Potentials Frequencies	Hussain, Yasmine; Eldawlatly, Seif*
Break			
PRE: Power and Renewable Energy			
Chair: Prof. Mohamed Taher			
16:00 - 17:00	21	Enhancement of Wind Energy Conversion System Voltage Stability by Using STATCOM with Different Controllers	Khaled, Bassem*; A. Attia, Mahmoud; Atef Omran, Walid
	32	Self-Start-Up Fully Integrated Dual Output DC/DC Converter With a New Frequency Selection Loop	Abdelrahim, Mahmoud Salah*; Ibrahim, Sameh; Omran, Hesham
	33	Hybrid Optimization of PV system for enhanced performance using Teaching Learning Based Optimization (TLBO) and Equilibrium Optimizer (EO)	A. Sayed, Eman; Sameh, Mariam A.*; Badr, Ahmed; A. Attia, Mahmoud
	34	Online DVFS Scheduling Algorithm for Sporadic Tasks with Energy-Conscious in Hard Real-Time Systems	EL-Sayed, Manal*; mustafa, Alsayed; heikal, Shahira; F. Aly, Rasha