ICENCO 2017

Program

2017 13thInternational Computer

Engineering Conference

Computer Engineering Department Faculty of Engineering

> Cairo University Cairo, EGYPT

"Boundless Smart Societies"

December 27-28, 2017



The Conference Venue

ICENCO 2017

First Day:

The conference will be held at the Four Seasons Hotel – Giza. It's located in 35 Giza Street (Ex. Mourad st.). If you're taking a taxi, mention "Four Seasons El Giza, Sharie Mourad" (Four Seasons, Giza, Mourad st.)

Second Day:

The conference will be held at Faculty of Engineering, Cairo University, and Computer Engineering Department. You may phone +202-35678981.

Both Venues are shown in the map below





Conference in a Glance

Wednesday, December 27th,

At Four Seasons Hotel-First Residence, Giza

08:30-09:00 am	Registration	
	Soft Opening	
09:00-09:10 am	Prof. Samir Shaheen, ICENCO Chair and Past-Dean Faculty of	
	Engineering, Cairo University	
09:15-11:00 am	Session 1	
09:15-11:00 am	Communications and Computer Networks	
11:00: 11:15 am Coffee Break		
11:15 am-01:00 pm	Session 2	
	Image Processing and Computer Vision	
01:00-02:00 pm	Lunch Break	
02:00-03:45 pm	Session 3	
02:00-05:45 pm	Machine Intelligence	
3:45:4:00 pm	Coffee Break	
04:00-05:45 pm	Session 4	
04:00-05:45 pm	Control Applications and Embedded Systems	
06:00–09:00 pm	Official Opening, Conf. Banquet and Honoring of class 2007	

13th International Computer Engineering Conference Cairo University, December 27-28, 2017 "Boundless Smart Societies"

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Thursday, December 28th,

Sessions: At Faculty of Engineering, Cairo University, Giza (Building 3000, Sixth Floor, Conference Room)

09:00-09:30 am	Registration
09:30-11:15 am	Session 5
09.30-11.15 am	Image Processing & Computer Vision and Big Data
11:15-11:30 am	Coffee break
11:30 am-1:15 pm	Session 6
11:50 am-1:15 pm	Machine Intelligence
1:15-02:15 pm	Lunch
02:15-04:00 pm	Session 7
02:15-04:00 pm	Communications and Computer Networks
4:00-4:15 pm	Coffee break
04.15 06.00 pm	Session 8 & Closing
04:15-06:00 pm	Miscellaneous

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Conference Program

Date	Wednesday 27, December 2017
Location	Four Seasons Hotel -First Residence, Giza

Soft Opening (09:00 am - 09:10 am) Prof. Samir Shaheen Past-Dean Faculty of Engineering, Cairo Conference Chair Session 1: Communications and Computer Net (09:15 am - 11:00 am) Moderators: Prof. Samir Shaheen Past-Dean Faculty of Engineering & Prof. Omar Karam Dean of Informatics& Computer S No Ref. No. Paper Title/authors 1 EG-62 Modified Capacity Enhanced PF (MCE-PF) Downlink Schedu for Heterogeneous LTE-Advanced Networks Amany Sobhy Eladham, Nada ElShennawy and Amany S 2 Ku-65	-	
Conference Chair Session 1: Communications and Computer Net (09:15 am - 11:00 am) Moderators: Prof. Samir Shaheen Past-Dean Faculty of Engineering & Prof. Omar Karam Dean of Informatics& Computer S No Ref. No. Paper Title/authors Modified Capacity Enhanced PF (MCE-PF) Downlink Schedu for Heterogeneous LTE-Advanced Networks Amany Sobhy Eladham, Nada ElShennawy and Amany S 2 Ku-65 Performance Enhancement of Free Space Optical (FSO) Sy Polarized DWDM-OFDM technique under Atmospheric DM Abd El-Naser A. Mohamed, Ahmed Nabih Zaki Rashed, Mohame and Amira M. Ismail	-	
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and Amira M. Ismail		
	<i>a</i> 5. <i>1</i> . <i>1abbbai</i>	
Evaluating QoS using Scheduling Algorithms in MPLS/VF	PN/WiMAX	
3 EG-24 Networks	, ., ., ., ., ., ., ., ., ., ., ., .,	
Hassan H. Elkarash, Nada M. Elshennawy and Elsayed A		
4 So-112 Cost-Efficient Architecture of IPsec Classification Engine		
Hayotjon Aliev, Won Sik Chae and HyungWon Kir		
5 So-98 Interoperability of Device Identification in Heterogeneous Id	oT Platforms	
Jahoon Koo and Young-Gab Kim		
6 Ku-47 Performance Analysis For Diverse Simulation Scenarios for D AODV MANET Routing Protocols	SDV, DSR and	
0 Ku-47 AODV MAINET Kouling Froidcois Qutaiba Razouqi, Ahmed Boushehri and Mohamed Ga	hallah	
Eurov Logic Based Clustering Approach with Mobile Sink		
7 Jo-115 <i>Putty Logic-Based Clustering Approach with Mobile Shik</i> Omar Banimelhem and Alaa Abu-Hantash	jor morto	
8 So-96 Development of IoT Security Component for Interoper	rability	
Se-Ra Oh and Young-Gab Kim	•	
9 So-49 Low overhead routing for IEEE 802.11-based Internet-of-Th		
Hyoung-Gyu Choi, Seung-Jae Han, and Sunju Par		
An Energy Efficient and Adaptive Clustering for Wireless Set 10 UK-77 (CH-leach) using Leach Protocol		
10 UK-77 (CH-leach) using Leach Protocol Walid Abushiba, Princy Johnson and Saad Alharth	nsor Network	
Coffee Break (11:00: 11:15 am)		



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	Session 2: Image Processing and Computer Vision (11:15 am- 01:00 pm)		
Mod	Moderators: Prof. Ahmed Darwish Former Miniser of Administrative Develop.		
		& Dr. Mayada Hadhoud Assistant Professor Computer	
		Engineering Department, Cairo University	
No	Ref. No.	Paper Title/authors	
1	EG-70	Speeding up Dominant Object Video Segmentation	
1	EG-70	Ali Alabed, Omar A. Nasr and Elsayed Hemayed	
		Improving the speed of chaotic-maps-based image encryption using	
2	EG-43	parallelization	
		Amany Elrefaey, Amany Sarhan and Nada M. El-Shennawy	
		Automatic Multi-Style License Plate Detection Using a Biologically Inspired	
3	EG-09	Classifier	
		Amr A. El-Latief, Elsayed E. Hemayed, Dina Helal and Mohamed Rehan	
		An investigation of key features of atherosclerotic plaques on B-images in	
4	Cz-79	comparison with histological patterns to ischemic stroke prediction	
		Jiri Blahuta, Jakub Skacel and Petr Cermak	
		A Comparative Study of Classification Methods And The Combination of Their	
5	EG-21	Models for Automatic Multimodal Brain Tumor Segmentation	
•	20 21	Moumen T. El-Melegy, Khaled M. Abo El-Magd, Samia A. Ali, Khaled F.	
		Hussain and Yousef B. Mahdy	
	T 40	Lebanese Automated Number Plate Reading Based on Neural Network	
6	Le-40	Recognition	
		Moustafa M. Kurdi, Imad A. Elzein, Jalal Issa and Ibrahim Sayed Ahmad	
		Detection of Saliency Map as Image Feature Outliers Using Random	
7	Li-37	Projections Based Method	
		Robertas Damaševičius, Rytis Maskeliūnas, Marcin Woźniak, Dawid Połap, Tatjana Sidekerskienė and Marcin Gabryel	
		Lunch Break	
$(1:00 \ pm - 2:00 \ pm)$			



	Session 3: Machine Intelligence (2:00 pm - 3:45 pm) Moderators: Prof. Reda Abdel Wahab Vice –Dean Faculty of Computer and Information Technology Prof. Nevin Darwish x-Chair Computer Engineering Department		
Mod			
NT.		Computer Engineering Department, Cairo University	
No	Ref.	Paper Title/authors	
	No.		
1	SA-90	Twitter Features Distributions across Similar Labelers Amal Abdullah AlMansour	
2	EG-23	Prediction of DNA Methylation for Every CpG Loci in chromosome 18 in Embryonic stem cells using Support Vector machine Asmaa Abo Bakr Kamel, Mai S. Mabrouk and Mohamed Waleed Fakhr	
3	EG-06	Observations on Exploration and Exploitation Effects on Solving Rubik's Cube Using Evolutionary Strategies Ayman M. Abo El-Maaty and Magda B. Fayek	
4	Ye-88	A Fuzzy Classifier based Detection for Epileptic Seizure Signals B. AL-Bokhity, Dalia Nashat and T. M. Nazmy	
5	EG-14	A Stacked Generalization Method for Disease Progression Prediction Gamal Elkomy, Elsayed Sallam and Sherin Elgokhy	
6	EG-57	Learning the Sit-to-Stand Human Behavior: An Inverse Optimal Control Approach Haitham El-Hussieny, Ahmed Asker and Omar Salah	
7	Le-38	Proposed System of ANN for Positioning and Navigation of UAV-UGV Moustafa M. Kurdi, Alex K. Dadykin, Imad Elzein and Ibrahim Sayed Ahmad	
8	Li-127	Gender-Related Differences in Brand-Related Social Media Content: An Empirical Investigation Ligita Zailskaitė-Jakštė and Robertas Damaševičius	
9	UN-31	A Novel Language-Adaptable Accent Reduction Software Template Aaron Ward and Selim S. Awad	
		Coffee break (3:45 – 4:00 pm)	

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Session 4: Control Applications and Embedded Systems (04:00 pm - 5:45 pm)			
Mod	Moderators: Prof. Ahmed Hassan, Computer Eng. Ain Shams University		
	&	Dr. Amr Wassal Associate Professor	
No	Ref.No.	Paper Title/authors	
1	IQ-135	Modeling and Control of Stand-Alone PV System Based on Fractional-Order PID Controller Tuned by Particle Swarm Optimization Techniques Ahmed .M. Betti, M. A. Mustafa Hassan and M. A. Ebrahim	
2	EG-13	Modeling and Simulation of The Common Rail Fuel System of The Diesel Engine Mohamed H. Siliman, Ahmed S.Ali, Saleh abo-Elfadl	
3	EG-50	GWOMF: Grey Wolf Optimization for Motif Finding Fatma Hashem,Mai S. Mabrouk and Walid Al-Atabany	
4	EG-18	Detection of Breast cancer using different power spectrum methods Safaa M. Naeem, Mai S. Mabrouk and Mohamed A. Eldosoky	
5	So-94	IKE Hardware Engine Based on CAM for Concurrent Processing of Massive User Sessions Shimaa Abdel Naby, Saad Arslan and HyungWon Kim	
6	EG-129	Hardware in the Loop of Position Tracking Control of HyDraulic Servo Mechanism Mohamed El-Sayed M. Essa, Magdy A. S. Aboelela, M. A. Moustafa Hassan and S. M. Abdrabbo	
7	EG-54	Experimental Nonlinear Identification of a Lab-Scale Helicopter System using MLP Neural Network Mohammed Moness and Tarek Diaa-Eldeen	
8	EG-10	Fluid Catalytic Cracking Unit Control Using Model Predictive Control And Adaptive Neuro Fuzzy Inference System: A Comparative Study Mohamed Zahran, M. E. Ammar, M. M. Ismail and M. A. Moustafa Hassan	
9	EG-58	Towards High Accuracy Measurements for Gas Flow Rate Using Ultrasonic Devices in Oil Fields Waleed Sayed Khadrawy, M. M. Elsherbini, Reham S. Saad and Hala Abdel Kader	
Official Opening (Banquet and Honoring of Class of 2007) (06:00 pm – 9:00 pm)			

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Conference Program (cont.)

Date	Thursday 28, December 2017
Location	Computer Engineering Dept. Cairo University, Giza

Registration		
	(09:00 – 09:30 am)	
Session 5: Image Processing/Computer Vision & Big Data		
	(9:30 – 11:15 am)	
erators:	Dr. Bassem Ibrahim Electronic Research Institute	
đ	& Dr. Mayada Hadhoud Assistant Professor	
Co	mputer Engineering Department, Cairo University	
Ref. No.	Paper Title/authors	
	A Novel Implementation for FastSLAM 2.0 Algorithm Based on Cloud	
EG-87	Robotics	
	Shimaa S. Ali, Abdallah Hammad and Adly S. Tag Eldien	
FG-102	A Reactive Fault Tolerance Approach For Cloud Computing	
LO-102	Eman AbdElfattah, Mohamed Elkawkagy and Ashraf El-Sisi	
	An Economic Model for Cloud Service Composition Based on User's	
EG-74	Preferences	
	Hala Hassan, Ali El-Desoky and Abd El-Hameed Ibrahim	
EG-126	Concurrency Control Algorithm for Shared Disk Cloud DBMS	
	Islam Eisa and Rashid Salem Automatic Diagnosis of Autoimmune Diseases by Classifying HEp-2 Cells	
EG-134	Maryam A. G. Kasem, Marwa M. A. Hadhoud, Mohammed A. A. ELdesoky	
	Improving Instance Selection Methods for Big Data Classification	
EG-76	Mohamed Malhat, Mohamed El Menshawy, Hamdy Mousa, and Ashraf El Sisi	
EG-111	Non-Uniform Quantized Huffman Compression Technique for EEG Data	
	Ramez Moh. Elaskary, Mohamed Saeed and Tawfik Ismail	
	Record Linkage Approaches in Big Data: A State Of Art Study	
EG-92	Randa M. Abd El-Ghafar, Mervat H.Gheith, Ali H. El-Bastawissy and Eman S.	
	Nasr	
EG-26	Providing QoS in Contention Management for Software Transactional Memory	
E0-20	Sherif F. Fahmy, Zakaria Senousy and Ahmed F. Amin	
EG-131	Novel selection policies for Container-based Cloud Deployment Models	
20 101	Walid A. Hanafy, Amr E. Mohamed and Sameh A. Salem	
	Coffee Break	
	(11:15 – 11:30)	
	Ssion 5: 1 Ssion 5: 1 Co Ref. No. EG-87 EG-102 EG-74 EG-126 EG-134 EG-76 EG-111	



Session 6: Machine Intelligence			
Mode	Moderators: Prof. Nevin Darwish x-Chair Computer Engineering Department & Prof. Amir. S. Atiya x-Director Scientific Computation Centre		
No	Ref. No.	uter Engineering Department, Cairo University	
INO	Kel. No.	Paper Title/authors	
1	EG-81	A Data Mining Experimentation Framework to Improve Six Sigma Projects Ahmed F. Fahmy, Ahmed H. Yousef and Hoda K. Mohamed	
		On the Use of Predictive Analytics Techniques for Network Elements Failure	
2	EG-82	Prediction in Telecom Operators	
2	10 02	Ahmed F. Fahmy, Ahmed H. Yousef and Hoda K. Mohamed	
		Enhancing Stock Prediction Clustering Using K-Means with Genetic	
3	EG-17	Algorithm	
		Eslam Nader Desokey, Amr Badr and Abdel Fatah Hegazy	
4	EG-46	Customer Churn Prediction Model using Data Mining techniques	
-	EG 40	Ibrahim M. M. Mitkees, Sherif M Badr and Ahmed Ibrahim Bahgat ElSeddawy	
-	EG-133	Location Category Classification using Tree Based Models with Novelty	
5		Discrimination Khaled Yasser and Elsayed Hemayed	
		A Novel Model based on Non Invasive Methods for Prediction of Liver	
6	EG-132	Fibrosis	
Ū	20102	Mahmoud Nasr, Khalid El-Bahnasy, M. Hamdy and Sanaa M. Kamal	
		An Algorithmic Approach for Overcoming Brain Tumor Using Swarm	
7	EG-35	Robots	
		Mohamed Abd Elhamid Abbas	
8	EG-124	Classification of right and left hand movement using nonlinear analysis	
U	20 121	Muhammed Alsuify, Walid Al-Atabany and Mohamed.A.A.Eldosoky	
9	EG-97	Improve the Compression of Bacterial DNA Sequence Nour S. Bakr and Amr A. Sharawi	
		A New Hybrid Approach for Document Clustering	
10	EG-20	Osama Ismael	
	•	Lunch Break	
		(01:15-02:15)	

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(02:15pm – 4:00 pm)

Moderators: Prof. Samir Shaheen Past-Dean Faculty of Engineering, Cairo Uni. Prof. Ehab Ali x- Chair Computer Department, Helwan Uni.

Proj. Enab Au x- Chair Computer Department, Helwan Uni.		
No	Ref No	Paper Title/authors
1	EG-25	Optimization of FBG Performance Parameters under Gamma Radiation and Temperature Effects Abd El-Naser A.Mohamed, Ahmed Nabih Zaki Rashed, Ahmed I.Elsaket, M. M. Zaky and Mohamed A. Gaheen
2	EG-114	Multicast Security Model for Internet of Things Based on Context Awareness Hussein Harb, Ashraf William, Omayma A. El-Mohsen and Hala A. Mansour
3	EG-66	Cooperative Spectrum Sensing and Clustering Schemes in CRN:A Survey Ibrahim Salah, Waleed Saad, Mona Shokair and Mohamed Elkordy2
4	EG-55	Energy Aware Ad-hoc On Demand Multipath Distance Vector (EA-AOMDV) Mahmoud M. Shawara,, Amany M. Sarhan and Nawal A. Elfishawy
5	EG-99	A study in WPA2 enterprise recent Attacks Mohamed A. Abo-Soliman and Marianne A. Azer
6	EG-34	Robust Pre-Authentication Protocol for Wireless Network Mohammed Aly Abdrabou
7	EG-52	A Novel Approach for Resource Utilization and Management in SDN Mohamed I. Hamed, Basem M. ElHalawany, Mostafa M. Fouda and Adly S. Tag Eldien
8	EG-75	An Adaptive Algorithm for Channel Assignment and Load Balancing in Elastic IEEE 802.11 WLANs Noureen Heiba, Masoud Alghoniemy, Mohamed Elwekeil, Amr Mokhtar and Mohamed R. M. Rizk
9	EG-123	SLUM: Smart Location Update Mechanism for Random Mobility Model Lamiaa Menshawy, Heba Nashaat and Rawya Y. Rizk
10	EG-67	A Novel Multiuser MIMO Scheduling Technique for Limited Feedback Systems Yasser Naguib Ahmed
11	EG-71	A Novel Determinant Based Transmit Antenna Selection Technique in Single User MIMO Systems Yasser Naguib Ahmed
12	EG-73	A Spectrum Decision Framework Based on Self Organized Map for Cognitive Radio Ad Hoc Networks Zahraa Abdelhamid, Salah El Agouz, Abdel halim Zekry and Fathi E. Abd El-Samie
		Coffee Break (4:00 – 4:15 pm)



Session 8: Miscellaneous

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(415 pm – 6:00 pm)

Moderators: Prof. Ihab Talkhan Chair Computer Engineering Department & Dr. Khaled Ibrahim Tech. Computer Systems Developer Computer Engineering Department, Cairo University.

No	Ref.N	Paper Title/authors
1	0. EG-95	High-Level Synthesis Hardware Implementation and Verification of HEVC DCT on SoC-FPGA
		Belal Mohamed, Amr Elsayed, Omar Amin, Eslam Khafagy, Maher Abdelrasoul, Ahmed Shalaby and Mohammed S. Sayed
2	EG-33	FPGA Implementation of a PRNG Based on Cross-Coupled Skew Tent Maps Rania A. Elmanfaloty, Ehab Abou-Bakr, Ahmed. M. El-Shaer and El-Sayed A. El- Badawy
3	EG-86	Using Ontology-Based Concept Maps for Requirements Engineering: A Case Study Mahmoud AbdEllatif, Marwa Salah Farhan and Karama Ali Mohamed
4	EG-106	Happy Feet Maya plugin to generate customized gait cycles for 3D characters Mary Guindy and Rimon Elias
5	EG-117	Internet of Things Security Framework Amira Hagag Imam and Marianne. A. Azer
6	EG-119	Correlation Between Protocol Selection and Packet Drop Attack Severity in Ad Hoc Networks Mahmoud Reda and Marianne. A. Azer
7	EG-68	Efficient Microcontroller System to Test an SRAM Chip Using Signature Analysis Mahmoud S. Ragab , Mohamed H. El-Mahlawy, and Emad A. El-Samahy
8	EG-107	Design and Simulation of Authenticated Encryption AENOTP Stream Cipher Algorithm Mohamed Nabil Hussein, Mohamed Helmy Megahed and Mohamed Hassan Abdel Azeem
9	EG-22	Analysis of Faults Repairing System Using Rough Sets: A Case Study in Large- Scale Telecommunication Company (Telecom Egypt) Osama Emam, Marwa Salah and Amr Abohany
Closing Session		