International Mobile, Intelligent, and Ubiquitous Computing Conference
May 26 & 27- Cairo, Egypt

MIUCC Agenda

http://miucc.miuegypt.edu.eg/

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Virtual Main Hall Link	https://miuegypt-edu-eg.zoom.us/j/92533229823
Virtual Hall 1 Link	https://miuegypt-edu-eg.zoom.us/j/92886454128
Virtual Hall 2 Link	https://miuegypt-edu-eg.zoom.us/j/93005165910
Virtual Hall 3 Link	https://miuegypt-edu-eg.zoom.us/j/97341828859

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Many thanks to all the MIU staff and MIUCC organizing committee for all what you have done for MIUCC 2021. Without your support, MIUCC 2021 wouldn't be there today!!

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Thanks to MIUCC 2021 volunteers' reviewers, who generously contribute their time and effort to the reviewing process

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Thanks to MIUCC 2021 volunteers' reviewers, who generously contribute their time and effort to the reviewing process

Chairman of IEEE Egypt Section

Prof. Ahmed Hassan Yousef

Ahmed Hassan Yousef is the chairman of IEEE, Egypt section. He is also the Dean of Information Technology and Computer Science school, Nile University since 2018. He served previously as the Dean of Communication Engineering and Information Technology school. He was the director of the Electronic and Knowledge Service Center and the Egyptian Universities Network, Supreme Council of Universities, Egypt during 2014-2018. He is a full professor in Ain Shams University. He was the director of the Information and Communication Technology Project till 2014. He got his Ph.D., M.Sc and B.Sc in 2004, 2000 and 1995 respectively. His research interests include High Performance Computing, Software Engineering, Data and Web Mining and Artificial Intelligence.

Thanks to IEEE Egypt Section for the continuous support and Collaboration with MIUCC 2021

MIUCC 2021 Keynote Speakers

Prof. David Alan Grier

He is Fellow of the IEEE, the Institute of Electrical and Electronic Engineers. He received this award for his contributions to crowdsourcing. Since 2007, written a regular colun on computing and society for Computer magazine. He has served in a variety of leadership roles in the IEEE, including Manager of Computing Society magazines, Vice President of Publications for the Computer Society and President of the Computer Society of the IEEE.

David Alan Grier has spent much of the past decade helping the IEEE Computer Society develop new electronic products, editing its periodicals and writing for its members. He has served as editor in chief of IEEE Annals of the History of Computing, as chair of the Magazine Operations Committee, and as an editorial board member of Computer.

Outside the Society, he works as an associate professor of science and technology policy at George Washington University in Washington, DC with a particular interest in policy regarding digital technology and professional societies. There, Grier has worked as a university administrator for the past 20 years and has demonstrated a capacity for organizational management. He served as leader of the undergraduate computer systems degree, director of the University Honors Program, assistant dean of engineering, and associate dean of International Affairs.

Finally, Grier has worked extensively within the computer industry. He started as a programmer and systems designer for the old Burroughs Corporation. He has also worked extensively as a consultant in the field. A more detailed biography can be found at http://www.dagrier.net.

Prof. Dharm Singh Jat

He is a Professor of Computer Science at Namibia University of Science and Technology (NUST). From 1990 to 2014, he was with College of Technology and Engineering, Maharana Pratap University of Agricultural and Technology – [MPUAT], Udaipur, India. He is the author of more than 150 peer-reviewed articles and the author or editor of more than 20 books. His interests span the areas of multimedia communications, wireless technologies, mobile communication systems, edge roof computing and, Software Defined Networks, Network security, Internet of things. He has given several Guest Lecturer/Invited talk at various prestigious conferences. He has been the recipient of more than 19 prestigious awards, such as Eminent Scientist Award, Distinguished Academic Achievement, Eminent Engineering Personality, CSI Chapter Patron, CSI Significant Contribution, Best Faculty Researcher, Best Technical Staff, Outstanding University Service Award and Distinguished ACM Speaker award.

Prof Dharm Singh is a Fellow of The Institution of Engineers (I), Fellow of Computer Society of India, Chartered Engineer (I), Senior Member IEEE and Distinguished ACM Speaker.He has contributed much to the development of multimedia communication over wired and wireless networks and formed Special Interest Group on Wireless Networks (SIG-WNs) of Computer Society of India (CSI) and designated first Convener and Chairman, SIG-WNs by CSI. He was Member of International review committee for accreditation and chairing of a number of programs of International Conferences. He is working as groups member of varies IEEE standard including IEEE P1931™ IEEE and IEEE P1932.1™ Standards and also co-author of IEEE P1931™ Standards (In editing process).

He also developed experiment based on simulation software for network experiments, research and project work for undergraduate and postgraduate students. His research in developing video communication platform for solving QoS issues in video communications and also developed a framework for video transmission over wireless networks for undergraduate and postgraduate students. A more detailed biography can be found at https://speakers.acm.org/speakers/jat_6303

Prof. Dr. Elvira Popescu

She is a full professor at the Computers and Information Technology Department, University of Craiova, Romania. She received the Ph.D. degree in information and systems technologies from the University of Technology of Compiègne, France, and the University of Craiova, Romania, in 2009. Her research interests include technology-enhanced learning, adaptation and personalization in Web-based systems, learner modeling, computer-supported collaborative learning, learning analytics, and intelligent and distributed computing. Dr. Popescu has authored and co-authored over 100 publications, including two books, journal articles, book chapters, and conference papers, which have received over 1400 citations.

In addition, she has co-edited six journal special issues, as well as 15 international conference proceedings published by Springer and one published by IEEE. She has also given several invited and panel talks at various international conferences. She has participated in over 15 national and international research projects, three of which as a principal investigator (grant director).

Prof. Popescu also serves as the Vice Chair for the IEEE Women in Engineering Romania Section Affinity Group and is an Executive Board Member for the IEEE Technical Committee on Learning Technology and the International Association of Smart Learning Environments. She received several scholarships and awards, including five best paper distinctions (IEEE EUROCON 2007, IEEE ICALT 2013, ICWL 2015, ICWL 2018, IEETeL 2019). She is actively involved in the academic community by serving as associate editor for two journals (IEEE Transactions on Learning Technologies, Smart Learning Environments), member of five other journal editorial boards, organizing a series of international workshops in the area of social and personal computing for e-learning (SPeL 2008–2020), serving as a conference chair, program committee chair, and track chair for 18 conferences. A more detailed biography can be found at http://software.ucv.ro/~epopescu/index.html

Prof. Dr. Anne C. Elster

She is a Professor of HPC in Computer Science ant NTNU and was the Co-founder and Co-director of Norwegian University of Science and Technology's Computational Science and Visualization program and also established the IDI/NTNU HPC-Lab, a well- respected research lab in heterogeneous computing that regularly receives international visitors. She is also a Visiting Scientist at the University of Texas at Austin.Her current research interests are in high-performance parallel computing, focusing on developing good models and tools for heterogeneous computing and parallel software environments. Methods that include applying machine learning for code optimization and image processing, and developing parallel scientific codes that interact visually with the users by taking advantage of the powers in modern GPUs. Her novel fast linear bit-reversal algorithm is still noteworthy.
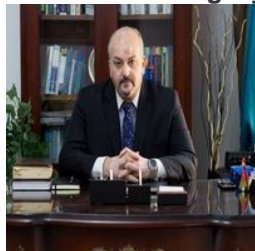
She has been an active participant and committee member of ACM/IEEE SC (Supercomputing) since 1990, served on the MPI 1 & 2 Forums (1993–96), as well as several other professional committees. She is a Senior member of IEEE, Life member of AGU (American Geophysical Union, as well as a member of ACM, SIAM and Tekna. Funding partners/collaborators include EU H2020, The Research Council of Norway, AMD, ARM, NVIDIA, Statoil and Schlumberger.

She works very closely with her graduate students and has so far supervised over 75 masters theses, several of which have received prizes, has supervised several PhD and Post Docs, and served on PhD committees internationally, including in Denmark, Italy, Saudi Arabia, Sweden, and the United States. She is currently supervising 1 Post Doc, 3 PhD students + 2 to be hired in 2018/19 (main advisor) and is co-supervisor for 2 more PhD students, as well as several master students. She has published widely in the field of high-performance computing (HPC). She has been the main advisor for more than 75 master students. A more detailed biography can be found at https://www.ntnu.edu/employees/elster

Thanks to the Distinguish Visitor Program (DVP), IEEE Computer Society for Freely Providing MIUCC 2021 Gold-Standard Keynote Speakers.

MIUCC 2021 Panelists

Dr. Mohamed Hegazy

Dr. Sherif Hazem

Dr. Ayman El Gizawy

Dr. Ibrahim A. Ibrahim

Eng.Mahmoud Tawfik

Eng. Mohamed Elharthy

Eng. Mohamed Abdou

Eng.Mohamed Sami

Eng. Ibrahim Ramadan

Eng. Salah El-Din Mohamed

Dr. Fady Azzouny

Eng. Seif Elmosalamy

Eng. Habiba Hegazy

Thanks to MIUCC 2021 volunteer panelists who generously contribute their time and talent to enrich the provided discussions.

International Mobile, Intelligent, and Ubiquitous Computing Conference
May 26 & 27- Cairo, Egypt

Day 1

26th May, 2021

Virtual Main Hall Link	https://miuegypt-edu-eg.zoom.us/j/92533229823
Virtual Hall 1 Link	https://miuegypt-edu-eg.zoom.us/j/92886454128
Virtual Hall 2 Link	https://miuegypt-edu-eg.zoom.us/j/93005165910
Virtual Hall 3 Link	https://miuegypt-edu-eg.zoom.us/j/97341828859

Time	Content
9:30 - 10:00	**Registration** (Virtual Main Hall)

10:00 - 10:50	**Welcome and Opening Registration** (Virtual Main Hall)

	Speakers				Moderator
10:00 - 10:50	Prof. Ayman Bahaa	Prof. Ahmed Hassan	Dr. Islam Tharwat	Dr. Ayman Nabil	Dr. Emad J. Ibrahim

10:50 - 11:00	**Break** (Virtual Main Hall)

11:00 - 11:50	**Keynote Speech - Prof. Dharm Singh Jat Registration** (Virtual Main Hall) **Topic: Modified AES Algorithm for Strong Encryption & Enhanced Security** Abstract: Networks today an inherent part of all defence or military organisations. Any loss of data from defence networks directly impacts the national security. Hence, this data has to be protected using strong encryption techniques. The Advanced Encryption Standard (AES), is a Federal Information Processing Standard (FIPS) for symmetric cryptography since 2001 and is the most popular encryption standard for securing data. However, the AES is known to be prone to brute force attacks and other forms of cryptanalysis. This address presents a conceptual model of modified AES algorithm, which will make it more complex, less prone to brute force attacks, tweak the algorithm so it is not known to attackers, and introduce a near true randomness to make it stronger and ideal for use in defence networks.
	Session Chair: Prof. Ayman Bahaa El-Din (Conference Chair)
	Session Co-Chair: Dr. Eslam Amer

11:50 - 12:00	**Break** (Virtual Main Hall)

12:00 - 12:50	**Keynote Speech - Prof. Anne C. Elster Registration** (Virtual Main Hall) **Topic: Parallel Computing and AI: Impact and Opportunities** Abstract: Parallel Computing has for many years now been needed in order to be able to get the desired performance for computational intensive tasks, ranging from image processing to astro-physics and weather simulations. Traditionally, the HPC field drove companies like Cray, IBM and others to develop processors for supercomputing. However, the market forces in other fields have—since the proliferation of COTS (commercial off-the shelf) processors, including GPUs for gaming and now more recently AI—driven the innovation in processor design. This means that algorithms, tools and applications now should adapt and take advantage of tensor processor, Machine Learning techniques, and other related technology, rather than expecting that old computational models will hold true. In this talk, we will discuss these issues, including how this is also an opportunity to help develop better graph algorithms for AI, and apply some of the techniques from AI to HPC challenges..
	Session Chair: Dr. Islam Tharwat (Conference Secretary General)
	Session Co-Chair: Dr. Taraggy Mohiy Ghanim

12:50 - 13:00	**Break** (Virtual Main Hall)

	Technical Sessions					
	Technical Session 1 (Virtual Hall 1)		**Technical Session 2 (Virtual Hall 2)**		**Technical Session 3 (Virtual Hall 3)**	
Session Chairs	**Prof. Ayman Bahaa**	**Dr. Eslam Amer**	**Dr. Islam Tharwat**	**Dr. Fatma Helmy**	**Dr. Ayman Nabil**	**Dr. Taraggy Ghanim**
13:00 – 13:15	Multiple Autonomous Underwater Vehicles Cooperative Localization Based on Asynchronous Relative Observation		A Smart Polluted Water Overload Drainage Detection and Alert System: Based on IoT		Predicting Student Performance in an Embodied Learning Environment	
13:15 – 13:30	Detection of Android Malware using Machine Learning		IoT Based Framework for Monitoring and Controlling Movable Harbor Cranes		Code Smells and Detection Techniques: A Survey	
13:30 – 13:45	Comparison of Different Computer Vision Approaches for E-waste Components Detection to Automate E-waste Disassembly		LQR and PID Controllers Performance on a Half Car Active Suspension System		Implementation of a Priority-Based Home Energy Management System	
13:45 – 14:00	Deepfakes Creation and Detection Using Deep Learning		Using Blockchain Technology for the Internet of Vehicles		Energy Aware Mobile Cloud Computing using Femtocells Technology	
14:00 – 14:15	Automatic Segmentation of Multiple Sclerosis Lesions in Brain MR Images Using Ensemble Machine Learning		Generic Library Mapping Approach for Trans-Compilation		AI-based Flexible Online Laboratory Learning System for Post-COVID-19 Era: Requirements and Design	
14:15 - 14:30	Break					
	Panel Discussion: Narrowing the Gap in the Digital Community (Virtual Main Hall)					
	Speakers					**Moderator**
14:30 - 15:20	**Dr. Mohamed Hegazy**	**Eng.Mahmoud Tawfik**	**Eng. Mohamed Elharthy**	**Eng.Mohamed Sami**	**Eng. Ibrahim Ramadan**	**Dr. Ahmed Darwish**
15:20 - 15:30	Break					
	Technical Sessions					
	Technical Session 4 (Virtual Hall 1)		**Technical Session 5 (Virtual Hall 2)**		**Technical Session 6 (Virtual Hall 3)**	
Session Chair	**Prof. Alaa Hamdy**	**Dr. Emad J. Ibrahim**	**Prof. Saber H. Zainud-DEEN**	**Dr. Islam Tharwat**	**Prof. Khaled Husseine**	**Dr. Ammar Mohammed**
15:30 – 15:45	Robust Pupil Segmentation using UNET and Morphological Image Processing				Machine Learning for Improved Resource Block Detection in 4G LTE Cognitive Radio Networks	
15:45 - 16:00	Reinforcement Learning Versus Generative Adversarial Networks for Video Summarization				Comparative study for Stylometric analysis techniques for authorship attribution	
16:00 - 16:15	Fault Detection and Classification of Machinery Bearing Under Variable Operating Conditions Based on Wavelet Transform and CNN		Comparison of Random Forest andExtreme Gradient Boosting Fingerprints to Enhance an indoor Wifi Localization System		OCFormer: A Transformer-Based Model For Arabic Handwritten Text Recognition	
16:15 – 16:30	Early Anomaly Prediction in Surveillance Camerasfor Security Applications		Acoustic Metamaterial for Simultaneous Noise Filtering and Energy Harvesting From Ambient Vibrations		A Machine Learning Based Approach for Student Performance Evaluation in Educational Data Mining	
16:30 - 16:45	Teaching Quadruped to Walk Using Fault Adaptive Deep Reinforcement Learning Algorithm		Traffic Analysis for Real Time Applications and its Effect on QoS in MANETs		Deep learning approach for Translating Arabic Holy Quran into Italian language	
16:45 – 17:00	Permission-Based Approach for Android Malware Analysis Through Ensemble-Based voting Model		A CLOUD-BASED TRUST COMPUTING MODEL For The SOCIAL INTERNET OF THINGS		Automated Breast Cancer Detection and Classification Techniques – A survey	

Day 2

27th May, 2021

Virtual Main Hall Link	https://miuegypt-edu-eg.zoom.us/j/92533229823
Virtual Hall 1 Link	https://miuegypt-edu-eg.zoom.us/j/92886454128
Virtual Hall 2 Link	https://miuegypt-edu-eg.zoom.us/j/93005165910
Virtual Hall 3 Link	https://miuegypt-edu-eg.zoom.us/j/97341828859

9:30 - 10:00	**Registration (Virtual Main Hall)**

10:00 - 10:50	**Panel Discussion: Digital transformation: the art of being a startup (Virtual Main Hall)**					
	Speakers					Moderator
	Dr. Ibrahim A. Ibrahim	Eng. Salah El-Din Mohamed	Dr. Fady Azzouny	Dr. Ayman Nabil	Dr. Ashraf AbdelRaouf	Dr. Essam Eliwa

10:50 - 11:00	**Break (Virtual Main Hall)**

11:00 - 11:50	**Panel Discussion: Digital currencies , Opportunities and Challenges (Virtual Main Hall)**					
	Speakers					Moderator
	Dr. Ayman El Gizawy	Dr. Islam Tharwat	Eng. Mohamed Abdou	Dr. Ammar Mohammed	Dr. Diaa Salama	Dr. Sherif Hazem

11:50 - 12:00	**Break (Virtual Main Hall)**

Session Chairs	**Technical Sessions**				
	Technical Session 7 (Virtual Hall 1)		**Technical Session 8 (Virtual Hall 2)**		**Technical Session 9 (Virtual Hall 3)**
	Prof. Abdel Nasser H. Zaied	Dr. Diaa Salama	Prof. Alaa Hamdy	Dr. Taraggy Ghanim	Dr. Ashraf AbdelRaouf	Dr. Eslam Amer
12:00 – 12:15	Detection of Wild Oats based on Support Vector Machine Algorithms		Software Defined Network Security based on machine learning		Cyber Physical Systems: Prospects and Challenges
12:15 – 12:30	Deep Learning Approach for Breast Cancer Diagnosis from Microscopy Biopsy Images		A Proposed Chatbot Framework for Covid-19		A Survey of Drowning Detection Techniques
12:30 – 12:45	Detecting Malicious Android Applications Based On API calls and Permissions Using Machine learning Algorithms		5G/4G Emerging Technologies Simulation and Hardware Implementation		Generating 3D model Human Shapes from body measurements
12:45 – 13:00	Detection COVID-19 using Machine Learningfrom Blood Tests		Performance Analysis For PMQTT Protocol		Edge/Fog-based Architecture Design for Intelligent Surveillance Systems in Smart Cities: A Software Perspective
13:00 – 13:15	EvalSeer: An Intelligent Gamified System for Programming Assignments Assessment		Low level position control for 4-DOF arm robot using fuzzy logic controller and 2-DOF PID controller		Design and Implementation of Visually Impaired Assistant system

13:15 - 13:30	**Break** (Virtual Main Hall)	
13:30 - 14:20	**Keynote Speech - Prof. David Alan Grier** (Virtual Main Hall) **Topic: The Generations of Computing and the Coming Data Age** Abstract: If you look carefully at the development of computing, you can see clear generational cycles. These cycles are marked by a sharp change of technology and a group of young leaders taking advantage of those changes. There is clearly a period of 20 years in which these leaders rise to prominence in the field before passing command to the next generation. We can point to the mainframe generation of the Fifties, the Software/PC Generation of the 70s, the Internet/Mobile Generation of the 90s. We are clearly nearing the end of the 90s cycle and need to start asking what follows and who will be the next generation. This talk considers the extent to which data will be the next driving technology and the extent to which we are already shifting towards the data generation of leaders..	
	Session Chair: Prof. Khaled Hussine (Conference Co-Chair)	
	Session Co-Chair: Dr. Diaa Salama AbdElminaam	
14:20 - 14:30	Break	
14:30 - 15:20	**Keynote Speech - Prof. Elvira Popescu** (Virtual Main Hall) **Topic: Topic: Learning Analytics – A Multiple Perspectives Analysis of Student Data** Abstract: Learning analytics (LA) is a growing research area, which aims at selecting, analyzing and reporting student data (in their interaction with the online learning environment), finding patterns in student behavior, displaying relevant information in suggestive formats; the end goal is the prediction of student performance, the optimization of the educational platform and the implementation of personalized interventions. The topic is highly interdisciplinary, including machine learning techniques, educational data mining, statistical analysis, social network analysis, natural language processing, but also knowledge from learning sciences, pedagogy and sociology. Despite its increasing popularity, LA has been applied less in the context of social media-based environments. In this talk we focus especially on research in social learning analytics area. Four research directions are tackled: analytics dashboards, predictive analytics, social network analytics and discourse analytics. We thus address the "trinity" of methodological approaches to get a more comprehensive learning analytics perspective.	
	Session Chair: Prof. Abdel Nasser H. Zaied (Conference Co-Chair)	
	Session Co-Chair: Dr. Ashraf AbdelRaouf	

15:20 - 15:30	Break					
Technical Sessions						
Session Chairs	**Technical Session 10 (Virtual Hall 1)**		**Technical Session 11 (Virtual Hall 2)**		**Technical Session 12 (Virtual Hall 3)**	
	Dr. Ayman Atia	**Dr. Islam Tharwat**	**Dr. Ammar Mohammed**	**Dr. Fatma Helmy**	**Dr. Walaa Hassan**	**Dr. Essam Eliwa**
15:30 – 15:45	VSGD: a Bi-modal Dataset for Gait Analysis		UAV Tracking System Using Integrated Sensor Fusion with RTK-GPS		Path Planning in dynamic indoor environment for mobile robots using Q-Learning Technique	
15:45 - 16:00	AN EFFICIENT MODIFIED GENETIC ALGORITHM FOR INTEGRATED PROCESS PLANNING-JOB SHOP SCHEDULING		Outage Probability of the Optimal and Four Optimal Relay Selection in Bidirectional Dual-Hop Half-Duplex Cooperative Wireless Relay Networks		A hybrid seagull optimization algorithm for chemical descriptors classification	
16:00 - 16:15	Deep Learning Architiectures For Aided Melanoma Skin Disease Recognition: A Review		Design of an Adaptive Cruise Control system Using CARLA Simulator		Automatic Sport Video Mining using a Novel Fusion of Handcrafted Descriptors	
16:15 – 16:30	Deep Reinforcement Learning Approach for Augmented Reality Games		Design and Performance Analysis of a Novel Low-power and Energy-Efficient 23Ts CLA Adder		AOM-MPA: Arabic Opinion Mining using Marine Predators Algorithm based Feature Selection	
16:30 - 16:45	MindTime: Deep Learning Approach for Borderline Personality Disorder detection		Secular: A Decentralized Blockchain-based Data Privacy-preserving Model Training Platform		HR-Chat bot: Designing and Building Effective Interview Chat-bots for Fake CV Detection	
16:45 - 17:45	Break					
17:45 - 18:45	**MIU CS Graduates Message (Virtual Main Hall)**					
	Eng. Seif Elmosalamy		**Eng. Habiba Hegazy**			**Dr. Islam Tharwat**
18:45 – 19:00	**MIUCC 2021 Closing (Virtual Main Hall)**					

Technical Sessions

Virtual Main Hall Link	https://miuegypt-edu-eg.zoom.us/j/92533229823
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Virtual Hall 2 Link	https://miuegypt-edu-eg.zoom.us/j/93005165910
Virtual Hall 3 Link	https://miuegypt-edu-eg.zoom.us/j/97341828859

SESSION 1: Intelligent Computing
SESSION CHAIRs: Prof. Ayman Bahaa El-Din (MIU, Egypt) - Dr. Eslam Amer (MIU, Egypt)
SESSION TIME: 26th May, 2021, 13:00 P.M – 14:15 P.M (UTC+02:00)
(Virtual Hall 1)

Session Chairs	Time Slotted	Paper ID	Paper Name	Registered Author with Affiliation and Country
Prof. Ayman Bahaa (MIU, Egypt)	13:00 – 13:15	31	Multiple Autonomous Underwater Vehicles Cooperative Localization Based on Asynchronous Relative Observation	Xiaoshuang Ma, Southeast University , China
	13:15 - 13:30	13	Detection of Android Malware using Machine Learning	Ahmed Hashem Bayoumy Ismail El Fiky, Faculty of Engineering, Al-Azhar University , Egypt
Dr. Eslam Amer (MIU, Egypt)	13:30 - 13:45	15	Comparison of Different Computer Vision Approaches for E-waste Components Detection to Automate E-waste Disassembly	Abdelrhman Medhat Bassiouny, Faculty of Engineering, Ain Shams University , Egypt
	13:45 – 14:00	17	Deepfakes Creation and Detection Using Deep Learning	Hady Ayman Ismael Abdelaziz Khalil, Faculty of Engineering, Ain Shams University , Egypt
	14:00 - 14:15	18	Automatic Segmentation of Multiple Sclerosis Lesions in Brain MR Images Using Ensemble Machine Learning	Randa AbdelHamed AminABdelHamed ElSebely, Faculty of Engineering, Ain Shams University , Egypt

SESSION 2: Mobile Computing
SESSION CHAIRs: Dr. Islam Tharwat (MIU, Egypt) - Dr. Fatma Helmy (MIU, Egypt)
SESSION TIME: 26th May, 2021, 13:00 P.M – 14:15 P.M (UTC+02:00)
(Virtual Hall 2)

Session Chairs	Time Slotted	Paper ID	Paper Name	Registered Author with Affiliation and Country
Dr. Islam Tharwat (MIU, Egypt)	13:00 – 13:15	2	A Smart Polluted Water Overload Drainage Detection and Alert System: Based on IoT	Imrus Salehin, Daffodil International University, Bangladesh
	13:15 - 13:30	35	IoT Based Framework for Monitoring and Controlling Movable Harbor Cranes	Ahmed Hatem Abd Elkader Awad, Faculty of Engineering, Mansoura University, Egypt
Dr. Fatma Helmy (MIU, Egypt)	13:30 - 13:45	12	LQR and PID Controllers Performance on a Half Car Active Suspension System	Ayman Hussien Mohamed, Faculty of Engineering, Ain Shams University , Egypt
	13:45 – 14:00	45	Using Blockchain Technology for the Internet of Vehicles	Ahmed Mohamed Eltahlawy, Nile University, Egypt
	14:00 - 14:15	46	Generic Library Mapping Approach for Trans-Compilation	Ahmad Ahmad Muhammad, Nile University, Egypt

SESSION 3: Ubiquitous Computing
SESSION CHAIRs: Dr. Ayman Nabil (MIU, Egypt) - Dr. Taraggy Mohiy Ghanim (MIU, Egypt)
SESSION TIME: 26th May, 2021, 13:00 P.M – 14:15 P.M (UTC+02:00)
(Virtual Hall 3)

Session Chairs	Time Slotted	Paper ID	Paper Name	Registered Author with Affiliation and Country
Dr. Ayman Nabil (MIU, Egypt) **Dr. Taraggy Mohiy Ghanim (MIU, Egypt)**	13:00 – 13:15	7	Predicting Student Performance in an Embodied Learning Environment	Neila Chettaoui, National School of Engineers, Tunis
	13:15 - 13:30	47	Code Smells and Detection Techniques: A Survey	Rana Samy Menshawy Othman Aly, Faculty of Engineering, Ain Shams University , Egypt
	13:30 - 13:45	54	Implementation of a Priority-Based Home Energy Management System	Ahmed. S Abdelwahed, Faculty of Engineering, Benha university, Egypt
	13:45 – 14:00	61	Energy Aware Mobile Cloud Computing using Femtocells Technology	Samir G. Sayed, Faculty of Engineering, Helwan university, Egypt
	14:00 - 14:15	51	AI-based Flexible Online Laboratory Learning System for Post-COVID-19 Era: Requirements and Design	Abdullah Ibrahim Salama, Faculty of Engineering, Helwan university, Egypt

SESSION 4: Intelligent Computing
SESSION CHAIRs: Prof. Alaa Hamdy (MIU, Egypt) - Dr. Emad J. Ibrahim (MIU, Egypt)
SESSION TIME: 26th May, 2021, 15:30 P.M – 17:00 P.M (UTC+02:00)
(Virtual Hall 1)

Session Chairs	Time Slotted	Paper ID	Paper Name	Registered Author with Affiliation and Country
Prof. Alaa Hamdy (MIU, Egypt)	15:30 – 15:45	22	Robust Pupil Segmentation using UNET and Morphological Image Processing	Swathi Gowroju, Sreyas Institute of Engineering & Technology, India
	15:45 - 16:00	23	Reinforcement Learning Versus Generative Adversarial Networks for Video Summarization	Mohamed Ashraf Aboelenien Ahmed, German University in Cairo, Egypt
Dr. Emad J. Ibrahim	16:00 - 16:15	28	Fault Detection and Classification of Machinery Bearing Under Variable Operating Conditions Based on Wavelet Transform and CNN	Assem Mahrous Mossad Eltoutangy, Faculty of Engineering, Ain Shams University , Egypt
	16:15 – 16:30	39	Early Anomaly Prediction in Surveillance Camerasfor Security Applications	Mario Emad, Faculty of Computers and Artificial Intelligence, Helwan University, Egypt
	16:30 - 16:45	5	Teaching Quadruped to Walk Using Fault Adaptive Deep Reinforcement Learning Algorithm	Tareq Ahmed Fahmy Mohamed Diab, Faculty of Engineering, Ain Shams University , Egypt
	16:45 - 17:00	68	Permission-Based Approach for Android Malware Analysis Through Ensemble-Based voting Model	Eslam Amer, Misr International University, Egypt

SESSION 5: Mobile Computing
SESSION CHAIR: Prof. Saber H. Zainud-DEEN (BUC, Egypt) – Dr. Islam Tharwat (MIU, Egypt)
SESSION TIME: 26th May, 2021, 15:30 P.M – 16:45 P.M (UTC+02:00)
(Virtual Hall 2)

Session Chair	Time Slotted	Paper ID	Paper Name	Registered Author with Affiliation and Country
Prof. Saber H. Zainud-DEEN (BUC, Egypt)	15:30 – 15:45			
	15:45 - 16:00			
	16:00 - 16:15	62	Comparison of Random Forest andExtreme Gradient Boosting Fingerprints to Enhance an indoor Wifi Localization System	Mariame Niang, University Cheikh Anta Diop of Dakar, Senegal
Dr. Islam Tharwat (MIU, Egypt)	16:15 – 16:30	9	Acoustic Metamaterial for Simultaneous Noise Filtering and Energy Harvesting From Ambient Vibrations	Ahmed Mohamed Farouk Fouad, Faculty of Engineering, Ain Shams University , Egypt
	16:30 - 16:45	26	Traffic Analysis for Real Time Applications and its Effect on QoS in MANETs	Mohamed El-Hadidi, Nile University, Egypt
	16:45 - 17:00	32	A CLOUD-BASED TRUST COMPUTING MODEL For The SOCIAL INTERNET OF THINGS	Amr Mohamed Thabet Ali-Eldin, Mansoura University, Egypt

SESSION 6: Intelligent Computing
SESSION CHAIRs: Prof. Khaled Husseine (MIU, Egypt) - Dr. Ammar Mohammed (MIU, Egypt)
SESSION TIME: 26th May, 2021, 15:30 P.M – 17:00 P.M (UTC+02:00)
(Virtual Hall 3)

Session Chair	Time Slotted	Paper ID	Paper Name	Registered Author with Affiliation and Country
Prof. Khaled Husseine (MIU, Egypt)	15:30 – 15:45	41	Machine Learning for Improved Resource Block Detection in 4G LTE Cognitive Radio Networks	Arsalan Ahmed, Habib University, Pakistan
	15:45 - 16:00	52	Comparative study for Stylometric analysis techniques for authorship attribution	Maryam A. Raafat, Faculty of Computers and Artificial Intelligence, Helwan University, Egypt
	16:00 - 16:15	53	OCFormer: A Transformer-Based Model For Arabic Handwritten Text Recognition	Aly Kassem, Faculty of Computers and Artificial Intelligence, Helwan University, Egypt
Dr. Ammar Mohammed (MIU, Egypt)	16:15 – 16:30	67	A Machine Learning Based Approach for Student Performance Evaluation in Educational Data Mining	Muhammad Sammy Ahmad, Cairo University, Egypt
	16:30 - 16:45	70	Deep learning approach for Translating Arabic Holy Quran into Italian language	Haiam Hamed Abuserea Abdelsalam, Faculty of Graduate Studies for Statistical Research, Cairo University, Egypt
	16:45 - 17:00	71	Automated Breast Cancer Detection and Classification Techniques – A survey	Abeer Saber, kafr el sheikh university, Egypt

SESSION 7: Intelligent Computing
SESSION CHAIRs: Prof. Abdel Nasser H. Zaied (MIU, Egypt) - Dr. Diaa Salama AbdElminaam
SESSION TIME: 27th May, 2021, 12:00 P.M – 13:15 P.M (UTC+02:00)
(Virtual Hall 1)

Session Chair	Time Slotted	Paper ID	Paper Title	Registered Author with Affiliation and Country
Prof. Abdel Nasser H. Zaied (MIU, Egypt) **Dr. Diaa Salama AbdElminaam (MIU, Egypt)**	12:00 – 12:15	77	Detection of Wild Oats based on Support Vector Machine Algorithms	Nour Bahaa Khairy, Misr International University, Egypt
	12:15 – 12:30	57	Deep Learning Approach for Breast Cancer Diagnosis from Microscopy Biopsy Images	Jana Khaled Hamdy, Misr International University, Egypt
	12:30 – 12:45	73	Detecting Malicious Android Applications Based On API calls and Permissions Using Machine learning Algorithms	Omar Shereef, Misr International University, Egypt
	12:45 – 13:00	89	Detection COVID-19 using Machine Learningfrom Blood Tests	Noran Hany, Misr International University, Egypt
	13:00 – 13:15	81	EvalSeer: An Intelligent Gamified System for Programming Assignments Assessment	Ahmed Mahdy, Misr International University, Egypt

SESSION 8: Mobile Computing
SESSION CHAIR: Prof. Alaa Hamdy (MIU, Egypt)
SESSION Co- CHAIRs: Prof. Alaa Hamdy (MIU, Egypt) - Dr. Taraggy Mohiy Ghanim
SESSION TIME: 27th May, 2021, 12:00 P.M – 13:15 P.M (UTC+02:00)
(Virtual Hall 2)

Session Chair	Time Slotted	Paper ID	Paper Title	Registered Author with Affiliation and Country
Prof. Alaa Hamdy (MIU, Egypt)	12:00 – 12:15	38	Performance Analysis For PMQTT Protocol	Eman Mohamed Elemam, Faculty of Engineering, Ain Shams University , Egypt
	12:15 – 12:30	56	Software Defined Network Security based on machine learning	Shimaa Ezzat Abdel mohsen Kotb Ali, Benha University, Egypt
Dr. Taraggy Mohiy Ghanim (MIU, Egypt)	12:30 – 12:45	36	Low level position control for 4-DOF arm robot using fuzzy logic controller and 2-DOF PID controller	Mohamed Fawzy Abdelaal Abdelgwad Elkhatib, Egyptian Russian University, Egypt
	12:45 – 13:00	74	A Proposed Chatbot Framework for Covid-19	Michel Ashraf, Misr International University, Egypt
	13:00 – 13:15	75	5G/4G Emerging Technologies Simulation and Hardware Implementation	Mahmoud Hussien Hassan Rakem, Misr International University, Egypt

SESSION 9: Ubiquitous Computing
SESSION CHAIRs: Dr. Ashraf AbdelRaouf (MIU, Egypt) - Dr. Eslam Amer (MIU, Egypt)
SESSION TIME: 27th May, 2021, 12:00 P.M – 13:15 P.M (UTC+02:00)
(Virtual Hall 3)

Session Chair	Time Slotted	Paper ID	Paper Title	Registered Author with Affiliation and Country
Dr. Ashraf AbdelRaouf (MIU, Egypt)	12:00 – 12:15	11	Cyber Physical Systems: Prospects and Challenges	Walid Gomaa, Egypt-Japan university of science & technology, Egypt
	12:15 – 12:30	58	A Survey of Drowning Detection Techniques	Abdelaziz Mohamed Shehata, Misr International University, Egypt
Dr. Eslam Amer (MIU, Egypt)	12:30 – 12:45	78	Generating 3D model Human Shapes from body measurements	Tarek Medhat Mohamed, Misr International University, Egypt
	12:45 – 13:00	79	Edge/Fog-based Architecture Design for Intelligent Surveillance Systems in Smart Cities: A Software Perspective	Sandra Fares, Misr International University, Egypt
	13:00 – 13:15	83	Design and Implementation of Visually Impaired Assistant system	Rawan sherief, Misr International University, Egypt

SESSION 10: Intelligent Computing
SESSION CHAIRs: Dr. Ayman Atia (MSA, Egypt) - Dr. Islam Tharwat (MIU, Egypt)
SESSION TIME: 27th May, 2021, 15:30 P.M – 16:45 P.M (UTC+02:00)
(Virtual Hall 1)

Session Chair	Time Slotted	Paper ID	Paper Title	Registered Author with Affiliation and Country
Dr. Ayman Atia (MSA, Egypt)	15:30 – 15:45	21	VSGD: a Bi-modal Dataset for Gait Analysis	Hisham Mohamed Madcor, Egypt Japan University of Science and Technology, Egypt
	15:45 - 16:00	27	AN EFFICIENT MODIFIED GENETIC ALGORITHM FOR INTEGRATED PROCESS PLANNING-JOB SHOP SCHEDULING	Hend Mohamed Abd-elaziz Reda, Badr University in Cairo, Egypt
Dr. Islam Tharwat (MIU, Egypt)	16:00 - 16:15	33	Deep Learning Architiectures For Aided Melanoma Skin Disease Recognition: A Review	Mohamed Ismail Roushdy, Faculty of Computers and Information Sciences, Ain Shams University, Egypt
	16:15 – 16:30	50	Deep Reinforcement Learning Approach for Augmented Reality Games	Ramez Magdy Mounir, Misr International University, Egypt
	16:30 - 16:45	85	MindTime: Deep Learning Approach for Borderline Personality Disorder detection	Mohamed Hassan Khazbak, Misr International University, Egypt

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SESSION 11: Mobile Computing
SESSION CHAIR: Dr. Ammar Mohammed (MIU, Egypt) - Dr. Fatma Helmy (MIU, Egypt)
SESSION TIME: 27th May, 2021, 15:30 P.M – 16:45 P.M (UTC+02:00)
(Virtual Hall 2)
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Session Chair	Time Slotted	Paper ID	Paper Title	Registered Author with Affiliation and Country
Dr. Ammar Mohammed (MIU, Egypt) **Dr. Fatma Helmy (MIU, Egypt)**	15:30 – 15:45	82	Outage Probability of the Optimal and Four Optimal Relay Selection in Bidirectional Dual-Hop Half-Duplex Cooperative Wireless Relay Networks	Alhossin Khalifa Moftah Aljadai, University of Derby, UK
	15:45 - 16:00	24	UAV Tracking System Using Integrated Sensor Fusion with RTK-GPS	Tawfik Ismail, Nile University, Egypt
	16:00 - 16:15	3	Design of an Adaptive Cruise Control system Using CARLA Simulator	Salah Mohamed Adly, Ain Shams University, Egypt
	16:15 – 16:30	25	Secular: A Decentralized Blockchain-based Data Privacy-preserving Model Training Platform	Mohamed El Ghamry, Faculty of Engineering, Ain Shams University , Egypt
	16:30 - 16:45	37	Design and Performance Analysis of a Novel Low-power and Energy-Efficient 23Ts CLA Adder	Mohsen El-Bendary , Faculty of Engineering, Helwan University, Egypt

SESSION 12: Intelligent Computing
SESSION CHAIRs: Dr. Walaa Hassan (MIU, Egypt) - Dr. Essam Eliwa (MIU, Egypt)
SESSION TIME: 27th May, 2021, 15:30 P.M – 16:45 P.M (UTC+02:00)
(Virtual Hall 3)

Session Chairs	Time Slotted	Paper ID	Paper Title	Registered Author with Affiliation and Country
Dr. Walaa Hassan (MIU, Egypt)	15:30 – 15:45	6	Path Planning in dynamic indoor environment for mobile robots using Q-Learning Technique	Ahmed Mohamed Walied AbdelSalam, Ain Shams University, Egypt
	15:45 - 16:00	8	A hybrid seagull optimization algorithm for chemical descriptors classification	Mosa E. Hosney, Faculty of Computers and Information, Minia Universit
Dr. Essam Eliwa (MIU, Egypt)	16:00 - 16:15	42	Automatic Sport Video Mining using a Novel Fusion of Handcrafted Descriptors	Neggaz nabil (Universit\'{e} des Sciences et de la Technologie d'Oran Mohamed Boudiaf), Algeria
	16:15 – 16:30	65	AOM-MPA: Arabic Opinion Mining using Marine Predators Algorithm based Feature Selection	Diaa Salama, Nabil Neggaz (Universit\'{e} des Sciences et de la Technologie d'Oran Mohamed Boudiaf)
	16:30 - 16:45	86	HR-Chat bot: Designing and Building Effective Interview Chat-bots for Fake CV Detection	Mohamed Adel, Misr International University, Egypt

Prof. Ayman Bahaa El-Din (MIU, Egypt)	Prof. Abdel Nasser H. Zaied	Prof. Khaled Husseine
Professor, Computer and Systems Eng. Dept. Ain Shams University. Prof. Bahaa-Eldin received his B.Sc., M.Sc. and Ph.D. in Computer Engineering from Ain Shams University in 1995, 1999, and 2004 respectively. He was a visiting professor in several local and international universities. He was appointed as the managing director of the Egyptian Universities Network (EUN), The Egyptian National Research and Education Network (NREN) from 2010 until 2014. Prof. Bahaa-Eldin is currently the Dean of the Faculty of Computer Science, Misr International University, Egypt. His fields of research are Cryptography, Computer Networks, and Computer and Network Security. He published more than 60 papers in refereed international journals and conferences, managed and participated in several national and international research projects, and participated in the reviewing process of many international journals and conferences.	Professor of Information Systems, Vice Dean for Student's affairs, Faculty of Computer Science, Misr International University (MIU), Egypt. He previously worked as a Dean, College of Computers and Informatics, Zagazig University (ZU), Egypt; Former Adviser to Minister of Higher Education for Private and National Universities, Egypt; An assistant professor of Technology Management, Arabian Gulf University, Bahrain; and Visiting professor at Oakland University, USA. He supervised 79 PhD. and MSc. thesis and examined 98 PhD. and MSc. thesis. He published more than 100 papers in refereed international journals and conferences.His fields of research are: Systems Analysis and Design; Information Security; Knowledge Management; Quality Management Systems; Management of Technology, Electronic applications, and Bio Informatics.	Khaled Moustafa was graduated from the Military Technical College (MTC), Egypt in 1989. He worked as a Teacher Assistant and Research Assistant in the MTC in the period from 1990 to 1994. He received his M.Sc. degree in electrical engineering in 1995 from the MTC. He achieved his PhD in 2000 from the University of Kent at Canterbury, UK. In the MTC, he was a Dean of the MTC. Now he is a Professor and Vice Dean for Post-Graduate and Research in Computer Science College at Misr International University. He was a Professor since 2015. His fields of interest are Digital System Designing, Digital Signal Processing, Multiple Target Tracking, and Real Time Realization with Embedded Systems (DSP processors - FPGA). He is a in the Egyptian engineering syndicate. He helped in the development of many undergraduate and postgraduate courses in the MTC.

Prof. Prof. Alaa Hamdy	Prof. Saber H. Zainud-DEEN	Dr. Islam Tharwat
Alaa Hamdy received the B.Sc. and M.Sc. degrees in computer engineering from Helwan University, in 1996, and the Ph.D. degree from the Faculty of Electrical Engineering, Poznan University of Technology, Poland, in 2004. He was commissioned by the Ministry of Higher Education to write a book for the Technical Colleges. He was a Member of the Group of the Information Technology Center (ITC), University of Helwan. He is a Representative of the Department with the Faculty of Engineering, Electronic Coordination Office. He is currently working as an Associate Professor with the Faculty of Engineering, Helwan University. He is the author/a coauthor of more than 40 scientific publications. His research interests include image processing, pattern analysis, and machine vision. He has been serving as an Academic Member for the Review Board Team of two high-impact factor international journals.	He received the B.Sc, M.Sc. and Ph.D. degrees from Menoufia University in 1978, 1982, and 1988, respectively, all in Electrical Engineering. He was a Head of Electrical and Communication Engineering Department at Menoufia university. He was a Vice Dean for Community Service and Environmental Affairs. He was a Head of Electrical Engineering Department at the Faculty of Engineering and Technology, Badr University in Cairo, BUC. From 2020 to present, he is a professor at the Faculty of Engineering and Technology, Badr University in Cairo. He is a member of the IEEE Antennas, Propagation Society, and International Union of Radio Science (URSI). He is Ex-member of the committee for Associate professor and Professor promotion at the supreme council for universities. Prof. Saber published over 230 refereed journal and conference papers on His h-index is 20, with a record of more than 1840 citations (source Google Scholar).	Islam Tharwat received B.Sc., M.Sc., and Ph.D. degrees in computer engineering from Ain Shams University in 2004, 2011, and 219, respectively. His Ph.D thesis awarded as the best thesis in the faculty at 2019. He is currently working as assistant professor at faculty of computer science, Misr International University (MIU), Cairo, Egypt. He has authored several research articles in various refereed conferences and journals, including Wireless Networks (Springer), Computer Networks (Elsevier), and IEEE Intelligent Transportation Systems Magazine. His current research interests include IoT, Edge/Fog computing, and Vehicular Communication. He is serving as a Chair of the Awarness and Customer Advocacy Subcommittee in IEEE Computer Society – Distinguished Visitor Program. He delivered and participated in several nationwide, complex, and multi-millions of dollars ICT projects.

Dr. Ammar Mohammed	Dr. Diaa Salama AbdElminaam	Dr. Ayman Nabil
Dr. Ammar received his Bachelor's and Master's degrees in Computer Science from Cairo University, Egypt, and his Ph.D. in Computer Science from the University of Koblenz-landau, Germany. He worked as a researcher and research fellow at the Artificial Intelligence (AI) research group, University of Koblenz-landau, and received the award of the best foreigner Ph.D. student. In 2013, he was a Visiting Assistant Professor at AI Research Group, University of Koblenz-Landau. In 2017 he became an Associate professor of Computer Science at the Faculty of Graduate Studies for statistical research, Cairo University, and was acting as the Head of the Department of Computer Science. In February 2020, Dr. Ammar Joined the Department of Computer Science, Misr International University as an Associate professor. Dr. Ammar supervised a group of multidisciplinary Ph.D. and Master's students. His research interests include machine and deep learning techniques, methods, algorithms, and their applications in several domains. Dr. Ammar is a PC member and joining the reviewing board of several international journals and conferences.	Diaa Salama AbdElminaam is currently an Associate Professor in the data science department, Faculty of Computers, Misr International University, Egypt, on leave benha university Egypt, since Feb 2020. He has worked on several research topics. Diaa has contributed + 80 technical papers in the areas of optimization, meta heuristics, Features Selection, Opinion mining, Machine, and Deep learning, wireless networks, wireless network security, Information security and Internet applications, Cloud Computing, Mobile Cloud Computing, Internet of Things, and Machine learning in international journals,and international conferences. He majors in Optimization , Cryptography, Network Security, IoT, Big Data, Cloud Computing, deep learning.	Dr. Ayman Nabil, is an Egyptian Researcher who lives in Cairo, Egypt. He got his Phd in Computer Science from Helwan university in 2011. He is working as an Assistant Professor, Acting Head of Computer Science Department in Misr international University. His research interests are in many Fields, like image Processing – Pattern Recognition – Machine Learning – Remote Sensing -Bioinformatics, he is leading digital transformation and smart universities initiative in Egyptian private universities.

Dr. Eslam Amer	Dr. Ashraf AbdelRaouf	Dr. Fatma Helmy Ismail
Dr Amer is currently working as associate professor of computer science. He earned his Ph.D. in 2012. His main research interests are focused on natural language processing and machine learning, along with their applications. He had two Post Doc positions in top universities in Europe. Currently, he is working on proposing new paradigms for malware analysis using NLP and deep learning.	Ashraf AbdelRaouf achieved his PhD in 2012 from the School of Computer Science in the University of Nottingham UK. Graduated from the Faculty of Engineering 1988. Studied a Computer Science Diploma in 1990 at the American University in Cairo (AUC). Worked in the software and IT industries. Started teaching in AUC and Misr International University (MIU) from 1991. Now he is an assistant Professor in Computer Science. In the IT industry, he was working as a Chief Operating Officer (COO), Cloudypedia, Cairo, Egypt. Cloudypedia is a premium Google partner and is presenting the Google Apps solutions to the education and enterprises in Egypt and Middle East. His research interest is in pattern recognition specifically in character recognition, natural language processing, image processing, medical imaging, bioinformatics, Arabic linguistics and morphology. Other research interests include programming, algorithms and computer graphics.	Achieved her PhD in 2008 from Ain Shams University, faculty of engineering. Graduated from Ain Shams University, faculty of engineering. Worked in database and software industries for eight years. Now she is an associate professor in Computer Science at Misr International University.

Dr. Ayman Atia	Dr. Walaa Hassan	Dr. Emad J. Ibrahim
Dr. Atia is an Associate Professor of Computer Science at MSA, Helwan University, Egypt. He received his Ph.D. from the University of Tsukuba, Japan 2011, and the B. Sc. and M. Sc. degrees from the Department of Computer Science, Helwan University, Egypt in 2000 and 2004, respectively. Dr. Atia is a Co-Founder of HCI-LAB, and head of the interaction group. His work includes finding new interaction techniques for large display and finding abnormal behavior for driving vehicles, theft detection, sports activities and software engineering frameworks. Despite the education and research challenges that face countries like Egypt, Dr. Atia is continuously supervising master and bachelor theses and was a recipient of governmental-fund and/or awards on several occasions. He is currently a member of IEEE, ACM SIGCHI.	Walaa H. El-Ashmawi is an Associate Professor at the Faculty of Computer Science, Misr International University, on leave from Suez Canal University, Egypt. She received her B.Sc in 2001 and M.Sc. in 2008 from Egypt. She got her PhD. Degree in 2013 from Computer Science Department, College of Information Science and Engineering, Hunan University, China. She authors and coauthors to many journal publications and conferences in the area of Artificial Intelligence, Computational Intelligence, Swarm intelligent algorithms. She led different IT positions (Executive manager of Portal Project, University Education Development Center and Head of Summer Training Unit – Suez Canal University).	EMAD .J.IBRAHIM is Associate Professor of Mathematical Statistics Department of Mathematics Faculty of Science Ain Shams University. He received the PhD degree in Mathematical Statistics from Ain Shams University. His research interests are in operation research, inventory, reliability theory and statistical inference. He is the head of Mathematics Department at Misr International University (MIU). He has published research articles in many international journals of mathematical and engineering sciences.
Dr. Essam Eliwa	Dr. Taraggy Mohiy Ghanim	
Dr. Essam Eliwa holds a PhD in Computer Science (University of Nottingham, 2013) and MSc in Information Technology (University of Nottingham, 2003). He has over 20 years of diverse experience in Academia and Industry, spanning three major areas: Research, Lecturing, and Software Engineering. His main research interest remains in the field of Web Science focusing on information retrieval and Web integration.	Received the BSc degree, MSc degree and PhD degree in computer and systems engineering from Ain Shams University, Cairo, Egypt, in 2006, 2012 and 2021 respectively. Dr. Taraggy started the academic career from 2006 as a teaching assistant and now she is an assistant professor in Faculty of Computer Science, Misr International University. Her current research interests are pattern recognition, computer vision, and deep neural networks.	