



IMSA

2023

1ST INTELLIGENT METHODS, SYSTEMS, AND APPLICATIONS

15th-16 JULY 2023
MSA UNIVERSITY, CAIRO, EGYPT

CONFERENCE AGENDA

Conference Agenda

Saturday, July 15 th , 2023					
9:00 am to 9:30 am	Registration				
9:30 am to 10:00 am	Opening Ceremony Zoom Link: https://us06web.zoom.us/j/9886803719				
10:00 am to 10:45 am	Keynote Speaker: Ahmed M. Abdelmoniem Towards Practical and Efficient Federated Learning (Online Via Zoom Link: https://us06web.zoom.us/j/9886803719) Session Moderator: Islam Tharwat				
10:45 am to 11:30 am	Keynote Speaker: Aladdin Ayeshe User-Centric AI Analytics for Chronic Health Conditions Management (Online Via Zoom Link: https://us06web.zoom.us/j/9886803719) Session Moderator: Islam Tharwat				
11:30am to 12:00 pm	Coffee Break				
Session ID/Room #	Session 1 (C111)	Session 2 (C112)	Session 3 (C114)	Session 4 (C116)	Session 5 (C117)
12:00 pm to 2:00 pm	Natural Language Processing	Computer Vision	Networking & Cyber Security	Human Computer Interaction	Machine Learning
	Chair: Ghada Khoriba Co-Chair: Wael Gomaa	Chair: Ashraf Abdelraouf Co-Chair: Mohamed Bakr	Chair: Ahmed Elshafie Co-Chair: Farid Ali	Chair: Kazuo Misue Co-Chair: Ehab Emam	Chair: Abelaziz Ahmed Co-Chair: Ali Khater
Paper ID #	84, 85, 94, 100, 153, 171	8, 114, 119, 121, 160, 118	59, 60, 71, 103, 148, 152	23, 86, 116, 123, 133, 166	20, 33, 72, 99, 101, 157
2:00 pm to 3:00 pm	Lunch Break				
Session ID/Room #	Session 6 (C111)	Session 7 (C112)	Session 8 (C114)	Session 9 (C116)	Session 10 (C117)
3:00 pm to 5:00 pm	Bioinformatics & Health Informatics	Networking & Cyber Security	Natural Language Processing	Machine Learning	Bioinformatics & Health Informatics
	Chair: Hala Zayed Co-Chair: Zeinab Abdelhalim	Chair: Mostafa Sami Co-Chair: Abdelaziz Ahmed	Chair: Eslam Amer Co-Chair: Farid Ali	Chair: Daa Abdel Moneam Co-Chair: Maha Hatem	Chair: Mohamed Elzawawy Co-Chair: Nehal Ali
Paper ID #	22, 52, 79, 81, 87	15, 28, 29, 64, 70, 130	4, 17, 67, 107, 149, 179	62, 75, 80, 112, 176	132, 135, 139, 145, 158, 162

Sunday, July 16 th , 2023				
9:00 am to 9:30 am	Registration			
9:30 am to 10:15 am	Keynote Speaker: Karim Seddik The Dawn of Open Radio Access Networks (O-RAN) (On Campus)			
10:15am to 11:00am	Keynote Speaker: Jyotika Athavale Standard for functional safety data format for interoperability within the dependability lifecycle (Online Via Zoom Link: https://us06web.zoom.us/j/9886803719) Session Moderator: Islam Tharwat			
11:00am to 11:30am	Coffee Break			
Session ID/Room #	Session 11 (C111)	Session 12 (C112)	Session 13 (C114)	Session 14 (C116)
11:30 am to 1:30 pm	ML & Embedded Systems	Computer Vision	Bioinformatics & Health Informatics	Software Engineering & Data Science
	Chair: Ahmed Madian Co-Chair: Mohamed Hossam Abouelftouh	Chair: Karim Seddik Co-Chair: Ghada Abdelhadi	Chair: Nermine Hamza Co-Chair: Ali Hamdi	Chair: Samer Ibrahim Co-Chair: Mohamed Abdelhafeez
Paper ID #	44, 61, 111, 129, 136, 146	51, 117, 127, 138, 155, 161	53, 78, 163, 169, 174, 175	24, 39, 36, 77, 90, 164
1:30 pm to 2:30 pm	Lunch Break			
Session ID/Room #	Session 15 (C111)	Session 16 (C112)	Session 17 (C114)	Session 18 (C116)
2:30 pm to 4:30 pm	Human Computer Interaction	Machine Learning	Bioinformatics & Health Informatics	ML & Evolutionary Algorithms
	Chair: Seif Eldawlati Co-Chair: Hesham Mansour	Chair: Laila Abdelhamied Co-Chair: Islam Shaarawy	Chair: Ahmed Elshafie Co-Chair: Sherif Hashad	Chair: Iman Helal Co-Chair: Marwa Solyman
Paper ID #	120, 122, 131, 140, 168, 34	16, 26, 42, 57, 93, 165	5, 7, 46, 65, 151	6, 18, 32, 58, 143, 144
4:30 pm to 5:00 pm	Closing Ceremony Zoom Link: https://us06web.zoom.us/j/9886803719			



Natural Language Processing Sessions

(15th July 2023)

Session ID: 1	Room: C111	Zoom Link: https://zoom.us/j/3634895983
Chair: Ghada Khoriba	Co-Chair: Wael Gomaa	Assistant: Mostafa Saeed

Paper ID	Paper Title	Authors	Schedule	Presenting
84	An Efficient Deep Learning Approach for Extractive Arabic Text Summarization Based on Multiple Encoders and a Single Decoder	Elsaied, Asmaa*; Mohamed, Ammar; Ibrahim, Lamiaa; Sakre, Mohamed.	12:00	On Campus
85	Abstractive Arabic Text Summarization Based on MT5 and AraBart Transforms	Elsaid, Asmaa*; Mohamed, Ammar; Ibrahim, Lamiaa; sakre, mohamed	12:20	On Campus
94	Enhancing Textual Relatedness Assessment with Combined Transformers-Embedding Similarity Techniques and Machine Learning Regressors	Hany, Mena*; Saeed, Mostafa Mohamed; Waly, Rana Reda; Nagib, Abdelrahman Ezzeldin; Gomaa, Wael Hassan	12:40	On Campus
100	Empowering Topic Classification Accuracy by Integrating Transformer-Based with Machine Learning and Deep Learning Techniques	Waly, Rana Reda*; Saeed, Mostafa Mohamed; Hany, Mena; Nagib, Abdelrahman Ezzeldin; Gomaa, Wael Hassan	01:00	On Campus
153	Empowering MBTI Personality Classification through Transformer-Based Summarization Model	Elmoushy, Seif*; Saeed, Mostafa Mohamed; Gomaa, Wael Hassan	1:20	On Campus
171	Generate Descriptions of Medical Dialogues Through Two-Layers Transformer-Based Summarization	Elkess, George*; Fawzy, Ahmed; Waly, Rana Reda; Gomaa, Wael Hassan	1:40	On Campus



Computer Vision

(15th July 2023)

Session ID: 2	Room: C112	Zoom Link: https://zoom.us/j/7931400451
Chair: Ashraf Abdelraouf	Co-Chair: Mohamed Bakr	Assistant: Rana Wally

Paper ID	Paper Title	Authors	Schedule	Presenting
8	Emotion to Detect: Facial Expression Recognition by CNN	Salma AlWardany ,Salma Abdelwahed; Kareem Moussa; Mohamed Darweesh	12:00	On Campus
114	Understanding of gait classification using template-matching techniques	Youssef A Rizk; Dema M Saleh; Ayman Ezzat	12:20	On Campus
119	VARSew: A Literature Review and Benchmark Dataset for Visual Recognition in Garment Sewing	Aly Fathy; Ahmed Asad; Ali Hamdi; Ammar Mohamed	12:40	On Campus
121	Abnormal Behavior Analysis for Surveillance in Poultry Farms using Deep Learning	Abdullah M Elbarrany; Abdallah Mohamed Mohialdin; Ayman Ezzat	01:00	On Campus
160	Multiple moving objects using deep learning for trajectory extraction and clustering	Yomna Elmasry; Magda Elzeky; Ayman Ezzat	1:20	On Campus
118	VARSew Benchmarking: A Visual Action Recognition on Garment Sewing using Various Deep learning models	Fathy, Aly*; Asad, Ahmed; Mohamed, Ammar	1:40	On Campus



Networking and Cyber Security

(15th July 2023)

Session ID: 3	Room: C114	Zoom Link: https://zoom.us/j/9458290198
Chair: Ahmed Elshafie	Co-Chair: Farid Ali	Assistant: Mena Hany

Paper ID	Paper Title	Authors	Schedule	Presenting
59	How Quantum Computing Impact Cyber Security	Abushgra, Abdulbast A*	12:00	Online
60	Biometric authentication using face thermal images based on neural fuzzy extractor	Sulavko, Alexey; Samotuga, Alexander; Panfilova, Irina E*; Zhumazanova, Samal	12:20	Online
71	Traffic Classification with Machine Learning for Enhancing Cloud Security	Hossen, Md. Sagar*; Ahmad, Tohari; Putra, Muhammad Aidiel Rachman	12:40	Online
103	Multiple Attack Classification in IoT Networks	Dawah, Anfal; Al-Rousan, Mohammad; Shatnawi, Ahmed; Al-Duwairi, Basheer*	01:00	On Campus
148	Identification of Malware Mimicry Attacks Using Process Escalating Visualization	Amer, Eslam*	1:20	On Campus
152	Rooted Android Devices Risk Assessment using Analytic Hierarchy Process	Elsersy, Wael Farouk*; Elersy, Wael Farouk; El-Fishawy, Nawal; Zakaria, Ehab E	1:40	On Campus



Human Computer Interaction

(15th July 2023)

Session ID: 4	Room: C116	Zoom Link: https://zoom.us/j/9302304793
Chair: Kazuo Misue	Co-Chair: Ehab Emam	Assistant: Abdelaziz Ashraf

Paper ID	Paper Title	Authors	Schedule	Presenting
23	Development of a Visual Analysis Tool for Seabird Behavior	Onuki, Tomoya; Misue, Kazuo*	12:00	On Campus
86	AI Personal Trainer for Lateral Raises and Shoulder Presses Exercises	Hesham, Shehab*; Taha, Zeinab	12:20	On Campus
116	News presenter skills evaluation using multi-modality and machine learning	Emam, Ahmed M*; El garh, Mohamed; Fahmy, Amany; Abdel Moniem, Amira; Atia, Ayman	12:40	On Campus
123	A Generic Framework for Human Activity Recognition Application for Therapeutic Purposes	Hamido, Mahmoud M.*; Mosalam, khaled E; Amin, Doaa; Diab, Olfat; Ezzat, Ayman	01:00	On Campus
133	Intellibot: A Personalized Behavioral Analysis Chatbot Framework Powered by GPT-3	El shentenawy, Mayar k*; ahmed, merna; el alfy, mariam; bakr, ahmed; Amer, Eslam; Heidar, Mahmoud M	1:20	On Campus
166	On Understanding Sports HAR Hierarchical, Mobile, Multi-Sensor based Classification of Table-Tennis Strokes	Ezzeldin, Mustafa*; S. Ghoneim, Amr; Abdelhamid, Laila M; Ezzat, Ayman	1:40	On Campus



Machine Learning (15th July 2023)

Session ID: 5	Room: C117	Zoom Link: https://us06web.zoom.us/j/9886803719
Chair: Abdelaziz Ahmed	Co-Chair: Ali Khater	Assistant: Habiba Mousa

Paper ID	Paper Title	Authors	Schedule	Presenting
20	Anti-noise Star Image Extraction Algorithm for Star Trackers Based on YOLOv5	Wu, Feng; Xu, Qingquan*; Ruxi, Xiang; Wu, Quanying; Wu, Xingzhi; Zhu, Xifang; Wang, Chen; Sun, Rui	12:00	On Campus
33	Maximum Power Point Tracking Using Model Predictive Control For Photovoltaic Systems	Abu-krisha, Youmna Ashraf*; Elbadawy, Ayman; Omran, Walid	12:20	On Campus
72	A Deep Learning Approach for Diagnosis and Detection of Acute lymphocytic leukemia	Elsheshtawi, Rania Mohmmmed Samir; Hassan, Basma Ezzat; Mohamed, Ammar*	12:40	On Campus
99	Material Classification in Laser Cutting using Deep Learning	Salem, Mohamed Abdallah*	01:00	On Campus
101	FISC-Net: Classification of Auscultation Sounds on Edge Device	Mutlu, Eray*; Hüseyin, Valid; Serbes, Gorkem	1:20	Online
157	Framework for Crack Detection using Deep Learning	Atta, Omar Mohamed*; Ezzat, Ayman	1:40	On Campus



Bioinformatics & Health Informatics

(15th July 2023)

Session ID: 6	Room: C111	Zoom Link: https://zoom.us/j/3634895983
Chair: Hala Zayed	Co-Chair: Zeinab Abdelhaliem	Assistant: Mostafa Saeed

Paper ID	Paper Title	Authors	Schedule	Presenting
22	Decision Level Fusion of Transfer Learning based Models for Diagnosing Lung and Colon Cancer	Alofari, Shireen Falah Abdulhussein; Ilhan, Hamza O*	03:00	Online
52	Smart Prediction of Circulatory Failure: Machine Learning for Early Detection of Patient Deterioration	Mahmoud, Shrouk Hesham*; Selim, Sahar; Hassan, Aya; Fekry, Hussin; Mohamed , Seifeldin; Mahmoud, Abdelrahman	03:40	On Campus
79	COVID-19 diagnosis from CT-images using transfer learning	Hamza, Nouran Waleed*; Selim, Sahar; Said, Lobna; Radwan, Ahmed	04:00	On Campus
81	Deep Learning Approach for Liver Tumor Diagnosis	makram, manal*; elhemeily, mohamed ; Mohamed, Ammar	04:20	On Campus
87	Machine learning model for predicting pancreatic fistula after pancreatoduodenectomy	Saleh, Hager*; El-Rashidy, Nora; Mohamed, Eman; M Sultan, Ahmad; El Nakeeb, Ayman; El-Sappagh, Shaker	04:40	On Campus



Networking & Cyber Security

(15th July 2023)

Session ID: 7	Room: C112	Zoom Link: https://zoom.us/j/7931400451
Chair: Mostafa Sami	Co-Chair: Abdelaziz Ahmed	Assistant: Rana Wally

Paper ID	Paper Title	Authors	Schedule	Presenting
15	A Comparative Study of Predictive Data Mining Techniques for Customer Churn in the Banking Industry	ORINA, DENIS O.*; Rimiru, Richard; Mwangi, Waweru	03:00	Online
28	A framework for exploring incentive methods towards reducing phishing susceptibility in Healthcare: Based on a review and In-the-wild-field study approach	Yeng, Prosper*; Yang, Bian; Fauzi, Muhammad Ali MAF; Nimbe, Peter	03:20	On Campus
29	Correlating Healthcare Staff's Stress Level and Cybersecurity Practices in Norway	Fauzi, Muhammad Ali MAF*; Yeng, Prosper; Yang, Bian	03:40	On Campus
64	Best Height of UAV-Aided NOMA Using ML and Optimization Techniques	Hashesh, Amira O.*; Tag Eldien, Adly; Fouda, Mostafa M.; zaki, Rokaia	04:00	On Campus
70	A Secured Technique for Executing Queries over Multidimensional Encrypted Data	Abd El-Aziz, Abd El-Aziz A*; hamdi, hadi	04:20	On Campus
130	Android Malware Detection via Deep learning Approach	Esmat, Marwa Mamdouh*; Elsayed, Khaled; Elsheikh, Ahmed	04:40	On Campus



Natural Language Processing

(15th July 2023)

Session ID: 8	Room: C114	Zoom Link: https://zoom.us/j/9458290198
Chair: Eslam Amer	Co-Chair: Farid Ali	Assistant: Mena Hany

Paper ID	Paper Title	Authors	Schedule	Presenting
4	Distance-Based Meta-Features for Arabic Text Classification	Louail, Maroua*; Kara-Mohamed, Chafia	03:00	Online
17	ANER: Arabic and Arabizi Named Entity Recognition using Transformer-Based Approach	Atef, Abdelrahman*	03:20	On Campus
67	Specialized Syntactic Quran Search Engines: Evaluation and Limitations	Bakr, Abdollah A*; Yousef, Ahmed H.; Arafa, Tamer K	03:40	On Campus
107	Hate Speech Detection Using the GPT-2 and Natural Language Processing	Jain, Arpit *; Sachi, Savya; Singh, Ajay Kumar; Devi, Suman ; Sharma , Yogesh kumar ; Athithan, Senthil	04:00	Online
149	Named Entity Recognition for Arabic Medical Texts Using Deep Learning Models	Nayel, Hamada*; Marzouk, Nourhan; El-Sawy, Ahmed	04:20	On Campus
179	Identifying and Classifying Fake COVID-19 Tweets using Transformer Models	Mahmoud Yousef, Yasmine Eid*; Mousa, Farid Ali; Mahmoud, Ayat	04:40	On Campus



Machine Learning (15th July 2023)

Session ID: 9	Room: C116	Zoom Link: https://zoom.us/j/9302304793
Chair: Diaa Abdelmoniem	Co-Chair: Maha Hatem	Assistant: Abdelaziz Ashraf

Paper ID	Paper Title	Authors	Schedule	Presenting
62	Detection of Malaria Infection Using Convolutional Neural Networks	Sherif, Farah*; Mohamed, Ammar	03:00	On Campus
75	Comparative Analysis of Pre-Trained CNN Architectures for Multi-Class Weather Classification: A Study on Deep Learning Techniques.	Nagib, Abdelrahman Ezzeldin*; Mohamed, Habiba; Ashraf, Abdelaziz	03:20	On Campus
80	Advanced Techniques for Business Process Automation: Insights and Challenges	Mahmoud, Mahmoud Boghdady*; Helal, Iman M. A.	03:40	On Campus
112	Performance Evaluation of Pre-trained Deep Learning Models for Bird Species Identification	emil, kerolos hany*; Rizk, Youssef A; Ezzat, Ayman	04:00	On Campus
176	Real and Fake Face Detection: A Comprehensive Evaluation of Machine Learning and Deep Learning Techniques for Improved Performance	Saad, Noha Ahmed*; Mousa, Farid Ali; Ali, Raghda Essam	04:20	On Campus



Bioinformatics & Health Informatics

(15th July 2023)

Session ID: 10	Room: C117	Zoom Link: https://us06web.zoom.us/j/9886803719
Chair: Mohamed Elzawawy	Co-Chair: Nehal Ali	Assistant: Habiba Mousa

Paper ID	Paper Title	Authors	Schedule	Presenting
132	Ensemble Machine learning for Breast Cancer Detection	Elsabawy, Nourhan M*; Elrashidy, Nora ; ibrahim, alaa; Elmenier , Mohamed Baher	03:00	On Campus
135	Recursive Feature Elimination with Cross Validation for Alzheimer's Disease Classification using Cognitive Exam Scores	Freytes, Christian Y*; Perry Mayrand, Robin; et al.	03:20	Online
139	Classification of tumors based on distinguishing possibilistic biclusters	Mahfouz, Mohamed A*	03:40	On Campus
145	A Comparative Analysis of Deep Learning Models for Brain Tumor Segmentation	Abdelwareth, Maha; Abdou, Mariem*; Hatem, Alaa; Adel, Michael; Darwish, Login; Mamdouh, Remon; Selim, Sahar	04:00	On Campus
158	Machine Learning-based Risk Prediction of Diabetes in Obese and Fatty Liver Patients: An Experimental Study	Ali, Raghda Essam*	04:20	On Campus
162	Deep Learning-Based Alzheimer's Disease Classification: An Experimental Study	Ayman, Mohamed *; Darwish, Farah; Ammar, Ammar Mohammed; Mohamed, Tukka Mohamed E	04:40	On Campus



Machine Learning & Embedded Systems

(16th July 2023)

Session ID: 11	Room: C111	Zoom Link: https://zoom.us/j/3634895983
Chair: Ahmed Madian	Co-Chair: Mohamed Hossam	Assistant: Mostafa Saeed

Paper ID	Paper Title	Authors	Schedule	Presenting
44	Deep Learning based Heart Diseases Detection using ResNet50 Architecture	Gulhane, Monali MV; Kumar, Sandeep*	11:30	Online
61	An Avionics System for Light-Weight Multi-Rotor Unmanned Aerial Vehicles	Özer, Muhammed Miraç*; BAKIRCI, Murat	11:50	Online
111	Short Term Weather Forecasting Comparison Based on Machine Learning Algorithms	Era, Chowdhury Abida Anjum*; Rahman, Mahmudur; Alvi, Syada Tasmia	12:10	Online
129	Exploring Effective Outlier Detection in IoT: A Systematic Survey of Techniques and Applications	Mosallam, Bassant E*; Hassan, Samar	12:30	On Campus
136	Credit Scoring Using Machine Learning Algorithms and Blockchain Technology	ossama, mariam*; ElShaarawy, Islam	12:50	On Campus
146	Depression Detection from Social Media Platforms: A Systematic Literature Review	Helmy, Abdelmoniem Ismail*; nassar, radwa nazmy; Ramdan, Nagy	01:10	On Campus



Computer Vision

(16th July 2023)

Session ID: 12	Room: C112	Zoom Link: https://zoom.us/j/7931400451
Chair: Karim Seddik	Co-Chair: Ghada Abdelhadi	Assistant: Rana Wally

Paper ID	Paper Title	Authors	Schedule	Presenting
51	3D Mesh Reconstruction from 2D Images: A NeRF based Approach	Abdelfattah, Mohamed*; Reda, Rania; Salem, Mohammed Abdel-Megeed; Abdennadher, Slim	11:30	On Campus
117	From Gestures to Audio: A Dataset Building Approach for Egyptian Sign Language Translation to Arabic Speech	Ismail, Youssef*; Tarek, Ali; Zakaria, Omar; Taha, Salma; Masoud, Suhaila; Sobh, Kareem; Tamer Salah, Ahmed; Khoriba, Ghada	11:50	On Campus
127	BuckTracker: System For Multi Banknotes Tracking	Elbarrany, Abdullah M*; Mosalam, khaled E; Ezzat, Ayman	12:10	On Campus
138	OilSpillNet: Deep Learning Model for Synthetic Aperture Radar Imagery Oil Spill Detection	ghonaime, touka*; Farouk, Ahmed	12:30	On Campus
155	Aqua-Farm fish behavior analysis using machine learning	Shiha, Noor Ashraf*; Ezzat, Ayman; Refaey, Mohamed; Abdelkhalek, Nevien	12:50	On Campus
161	Facial Expressions Analysis to Evaluate the Level of Student's Understanding.	Alkhouly , Asmaa Abdulaziz *; Magdy, Ahmed; Mohammed, Ahmed; Nasr, Abd el-rahman ; Shaaban, Ali; Mahmoud, Mostafa ; Tarek, Shehab ; Ibrahim, Zeyad	01:10	On Campus



Bioinformatics & Health Informatics

(16th July 2023)

Session ID: 13	Room: C114	Zoom Link: https://zoom.us/j/9458290198
Chair: Nermine Hamza	Co-Chair: Ali Hamdi	Assistant: Mena Hany

Paper ID	Paper Title	Authors	Schedule	Presenting
53	Early Breast Cancer Screening from Thermography via Deep Pre-Trained Edge Detection with Extreme Gradient Boosting	Gamal, Shaimaa; Atef, Hanan ; Youssef, Doaa; Ismail, Tawfik*; El-Azab, Jala	11:30	On Campus
78	Comparative Study of Alzheimer's disease Classification using Transfer Learning Models.	Mohamed, Habiba*; Ashraf, Abdelaziz; Nagib, Abdelrahman Ezzeldin	11:50	On Campus
163	Comparative Analysis: Deep vs. Machine Learning for Early DFU Detection in Medical Imaging	El-Kady, Ahmed Mostafa*; Mostafa, Mohamed; Ali, Heba Hamdy; Mousa, Farid Ali	12:10	On Campus
169	Deep Learning-Based Classification of Ocular Diseases Using Convolutional Neural Networks	Mostafa, Khaled; Hany, Mohamed; Ashraf, Abdelaziz*; Mahmoud, Mohammed	12:30	On Campus
174	A Robust Ensemble Deep Learning Approach for Breast Cancer Diagnosis	Amgad, Nadeen*; Ahmed, Mariam; Hejazy, Haidy Haitham; Zaher, Moamen; Ammar, Ammar Mohammed	12:50	On Campus
175	Early Rheumatoid Arthritis Detection by miRNA Data Analysis using a Hybrid CNN-LSTM Deep Learning Model	Ali, Nehal*	01:10	On Campus



Software Engineering & Data Science

(16th July 2023)

Session ID: 14	Room: C116	Zoom Link: https://zoom.us/j/9302304793
Chair: Samer Ibrahim	Co-Chair: Mohamed Abdelhafez	Assistant: Abdelaziz Ashraf

Paper ID	Paper Title	Authors	Schedule	Presenting
24	Compiler-based Web Services code conversion model for different languages of mobile applications	tarek, amira Mrs*; Ahmad Muhammad, Ahmad Mr; Medhat, Walaa; Selim, Sahar; Zayed, Hala H; hasan, ahmed	11:30	On Campus
39	Comparing the Effectiveness of Machine Learning and Deep Learning Techniques for Feature Envy Detection in Software Systems	Menshawy, Rana Samy*; Hassan, Ahmed; Salem, Ashraf	11:50	On Campus
36	Comparative Study of JavaScript and Web Assembly Derivatives In Browser Engines	Stotoglou, Anastasios*; Kaskalis, Theodore	12:10	Online
77	LMSs: A Roadmap from Selection to Evaluation	Abdelkader, Mohammed; Mazen, Sherif; Helal, Iman M. A.*	12:30	On Campus
90	A Novel Two-Phase Approach for Enhancing Process Model Discovery in Processing Mining	Abo Khedra, Mohamed Mostafa*; Mohamed, Ammar; Abdel-Hamid, Yasser	12:50	On Campus
164	Process Discovery Automation: Benefits and Limitations	Kadry, Reem*; Helal, Iman M. A.	01:10	On Campus



Human Computer Interaction

(16th July 2023)

Session ID: 15	Room: C111	Zoom Link: https://zoom.us/j/3634895983
Chair: Seif Eldawlati	Co-Chair: Hesham Mansour	Assistant: Moustafa Saeed

Paper ID	Paper Title	Authors	Schedule	Presenting
120	DriveGuard: An Automated Interactive Alerting System to track and Analyze Drivers' Behaviors on Road	Mohialdin, Abdallah Mohamed*; Saleh, Dema M; Taher, Elshaymaa A; Sabry, Kareem; Elsaid, Hany M. ; Ezzat, Ayman	02:30	On Campus
122	Monitoring Attention Through the Use of Computerized Trailmaking Tests With Varying Input Devices	Hamido, Mahmoud M.*; Abdelrahman, Alyaa; Bloz, Omar; Elsaid, Hany M. ; Ezzat, Ayman	02:50	On Campus
131	The Effect of Using Tangible User Interfaces Compared to Traditional Learning for Teaching Programming in Higher Education: An Experimental Study	Alatawi, Ashraf H*; Abdelgawad, Enjy R; Akl, Amr k; Ezzat, Ayman	03:10	On Campus
140	Football activities classification	Emam, Ahmed M*; Habib, Omar Tarek; Ezzat, Ayman	03:30	On Campus
168	A Framework for Assessing Physical Rehabilitation Exercises	Zaher, Moamen*; Ezzat, Ayman; Abdelhamid, Laila M; Ghoneem, Amr; Samir, Ahmed	03:50	On Campus
34	Design of Fast Star Image Extraction Module for Autonomous Star Sensors Based on FPGA	Wu, Quanying; Xu, Qingquan; Wu, Xingzhi*; Ruxi, Xiang; Zhu, Xifang; Wu, Feng; Wang, Chen ; Liu, Haiyang; et al.	04:10	On Campus



Machine Learning (16th July 2023)

Session ID: 16	Room: C112	Zoom Link: https://zoom.us/j/7931400451
Chair: Laila Abdelhamied	Co-Chair: Islam Shaarawy	Assistant: Rana Wally

Paper ID	Paper Title	Authors	Schedule	Presenting
16	TCN-MLP: A Hybrid Model for Short-Term Electrical Load Forecasting	Sayed Farid Hassan, Karim*; Ayman, Ahmed; Salem, Sameh; Mohamed, Amr	02:30	On Campus
26	Personalized Car Recommendations Using Knowledge-Based Methods	Alabduljabbar, Reham*; Alghamdi, Maha; Alshamlan, Hala M	02:50	Online
42	Evaluation of metric and representation learning approaches: Effects of Representations driven by relative distance on the performance	Garza, Anthony; Garcia, Rolando; Halfon, Marc; Girgis, Hani Z*	03:10	On Campus
57	Incorporating connectivity in k-nearest neighbors regression	Mahfouz, Mohamed A*; mahfouz, mohamed	03:30	On Campus
93	A Beginner's Guide to Federated Learning	Gogulamudi, Pradeep Reddy; Y. V., Pavan Kumar*	03:50	Online
165	Prediction of Dental Fluorosis Infection based on Particle Optimized Scored KNN Approach	Kadry, Reem*; Ismael, Osama; El-Kholy, Moataz	04:10	On Campus



Bioinformatics & Health Informatics

(16th July 2023)

Session ID: 17	Room: C114	Zoom Link: https://zoom.us/j/9458290198
Chair: Ahmed Elshafie	Co-Chair: Sherief Hashad	Assistant: Mena Hany

Paper ID	Paper Title	Authors	Schedule	Presenting
5	Early Detection of Colon Cancer Using Deep Learning Techniques	Gamil, Mennatullah M*; AbdelRaouf, Ashraf; Omar, Yasser	02:30	On Campus
7	Atherosclerotic Plaque Segmentation in Carotid Ultrasound Image using Hybrid-Attention-UNet Deep Learning Model	Sharma, Vinayak; Jain, Sonam; Jain, Pankaj K*; Shukla, K K	02:50	Online
46	Exploring the Power of Quantum Convolutional Neural Networks for Brain MRI Image Classification	Tantawi, Baraa M.*; Kamel Ahmed, Hamza K.; Magdy, Malak; Ahmed, Mohammed A.; Ismail Sayed, Gehad	03:10	On Campus
65	Convolutional Neural Networks Based Classification of Segmented Breast Ultrasound Images – A Comparative Preliminary Study	GadAllah, Mohammed T*; GadAllah, Mohammed; Mohamed, Abd El-Naser; Hefnawy, Alaa; Elbanna, Hassan; El-Banby, Ghada; Badawy, Samir	03:30	On Campus
151	A Comparative Study of Weight Initialization Techniques for Convolutional Neural Networks in COVID-19 Classification from X-ray Images.	Nagib, Abdelrahman Ezzeldin*; Saeed, Mostafa Mohamed; El-Feky, Shereen Fathy; Khater, Ali	03:50	On Campus



Machine Learning & Evolutionary Algorithms

(16th July 2023)

Session ID: 18	Room: C116	Zoom Link: https://zoom.us/j/9302304793
Chair: Iman Helal	Co-Chair: Marwa Soliman	Assistant: Abdelaziz Ashraf

Paper ID	Paper Title	Authors	Schedule	Presenting
6	A Comparative Study of Diabetes Classification Based on Machine Learning	Ismail, Esraa; Ramadan, Rawan; Mohamed, Samah; Yousri, Retaj; Darweesh, Mohamed*	02:30	On Campus
18	Trajectory Generation of Hexapod Robots Based on Genetic Algorithm	Beaber, Sameh; Kamel, Mohamed A*; Zaghloul, Abdelrahman; Hussein, Wessam	02:50	On Campus
32	IFPS-RPA: Interface-based Frequent Pattern Segmentation for Robotic Process Automation	Taha, Aya; Mazen, Sherif; Helal, Iman M. A.*	03:10	On Campus
58	Recurrent Neural Networks (RNNs) to improve EEG-based person identification	Mohamed, Youssef MK*; Anter, Ahmed ; Zaky, Ahmed B	03:30	On Campus
143	Dynamic neighborhood-based Grey wolf optimizer with Dimension Learning-based Hunting and Lévy Flight	Anand, Aditya; Batra, Harshit *; Syal, Sukrit	03:50	Online
144	Leveraging Attention to Achieve Generalization for Image Forgery Detection	Atta, Mohamed Tarek*	04:10	On Campus

**IMSA
2023**

THANK YOU

