



IMSA 2024

**2nd International Conference of
INTELLIGENT METHODS, SYSTEMS,
AND APPLICATIONS**

13th - 14th JULY 2024

MSA UNIVERSITY, CAIRO, EGYPT

CONFERENCE AGENDA

Conference Agenda

Saturday, July 13th, 2024

09:30 am to 10:00 am	Registration				
10:00 am to 10:30 am	Opening Ceremony				
10:30 am to 11:30 am	Keynote Speaker: Dr. Ahmed N. Tantawy Title: Innovation for Better Governance				
11:30 am to 12:30 pm	Coffee Break				
Session ID/ Room #	Session 1 (C111)	Session 2 (C112)	Session 3 (C114)	Session 4 (C116)	Session 5 (C117)
Subject Area	Security	Computer Vision	Computer Vision	Natural Language Processing	Computer Vision
12:30 pm to 02:30 pm	Chair: Mohamed Zawawi Co-Chair: Muhammed Hossam	Chair: Hala Zayed Co-Chair: Zeinab Taha	Chair: Khaled Tawfik Co-Chair: Farid Ali	Chair: Ghada Khoriba Co-Chair: Mohamed Labib	Chair: Mohamed El-Taweel Co-Chair: Wael El-Sersy
Paper ID #	21, 132, 139, 164, 213, 219	37, 100, 154, 179, 182, 199	84, 167, 168, 173, 189, 196	17, 63, 76, 128, 129, 203	148, 185, 190, 193, 229, 230
02:30 pm to 03:00 pm	Coffee Break				
Session ID/ Room #	Session 6 (C111)	Session 7 (C112)	Session 8 (C114)	Session 9 (C116)	Session 10 (C117)
Subject Area	Network & Security	Artificial Intelligence	Natural Language Processing	Machine Learning	ML & Robotics
03:00 pm to 05:00 pm	Chair: Nermin Hamza Co-Chair: Ahmed Shamy	Chair: Wael Gomaa Co-Chair: Nehal Ali	Chair: Abdelaziz Ahmed Co-Chair: Islam El-Shaarawy	Chair: Khaled Hussien Co-Chair: Ahmed El-Shafiee	Chair: Hossam Mekawy Co-Chair: Magda El-Daghestani
Paper ID #	27, 43, 45, 46, 80, 109	14, 38, 47, 48, 82, 83, 120	8, 77, 176, 178, 180, 202	33, 51, 60, 62, 144, 152	103, 112, 140, 197, 153, 160

Conference Agenda

Sunday, July 14th, 2024

9:30 am to 10:00 am	Registration			
10:00 am to 11:00 am	Keynote Speaker: Dr. Seif El-Dawlatly Title: From Brain-Computer Interface to Brain-Computer Integration			
11:00 am to 11:30 am	Coffee Break			
Session ID/ Room #	Session 11 (C111)	Session 12 (C112)	Session 13 (C114)	Session 14 (C116)
Subject Area	ML & Human-Computer Interaction	Computer Vision	ML & Data Science	ML & Evolutionary Algorithm
11:30 am to 01:30 pm	Chair: Seif El-Dawlatly Co-Chair: Ali Hamdi	Chair: Amaal Aboutabl Co-Chair: Mai Hassan	Chair: Mohamed Tharwat Co-Chair: Hesham Mansour	Chair: Walaa Elashmawy Co-Chair: Ali Khater
Paper ID #	15, 28, 29, 55, 151, 226	13, 136, 138, 165, 205, 227	36, 99, 102, 157, 191, 204	10, 25, 50, 122, 143, 161, 224
01:30 pm to 02:00 pm	Coffee Break			
Session ID/ Room #	Session 15 (C111)	Session 16 (C112)	Session 17 (C114)	
Subject Area	Machine Learning	Natural Language Processing & Medical Image	Evolutionary Algorithms	
02:00 pm to 04:00 pm	Chair: Iman Helal Co-Chair: Marwa Solayman	Chair: Ashraf Abd El-Raouf Co-Chair: Maged Abd El-Ati	Chair: Diaa Salama Co-Chair: Mohamed Ghoneimy	
Paper ID #	1, 20 ,97, 166, 207, 210	9, 57, 94, 126, 171, 221	12, 39, 107, 183, 201, 212	
04:00 pm to 04:30 pm	Closing Ceremony			



Security			(13 th July 2024)
Session ID: 1	Room: C111	Zoom Link: https://us06web.zoom.us/j/2733114959?pwd=ep7LFgdGaw5NUA3k4UXIAMOWfank8x.1&omn=83861916779	
Chair: Mohamed Zawawi		Co-Chair: Muhammed Hossam	Assistant: Mostafa Saeed

Paper ID	Paper Title	Authors	Schedule	Presenting
21	Performance Evaluation Framework for Insider Threat Detection using Machine Learning	Habiba Emad*, Samar Said	12:30	On Campus
132	FGSM Adversarial Attack Detection on Deepfake Videos	Saifeldin Nasser Mohamed*, ahmed amr ahmed, WaelFarouk Elersy	12:50	On Campus
139	Machine Learning Approach for Complaint Prediction in the Telecom Industry	Mohamed Mahmoud Gewaly*, Ammar Mohamed, Mahmoud Samy	01:10	On Campus
164	Enhancing Web Security: A Comparative Analysis of Machine Learning Models for CSRF Detection	Bassem Osama*, Mohamed Ramadan, Moamen Zaher, Hesham A. Mansour, Wael Farouk Elersy	01:30	On Campus
213	A Machine Learning Approach to SQL Injection Detection in Web Applications	Youssef Nehad Seada*, Ahmed mohamed Ahmed, Hesham A. Mansour, Mena Hany, Wael Farouk Elersy	01:50	On Campus
219	Evaluating Predictive Models in Cybersecurity: A Comparative Analysis of Machine and Deep Learning Techniques for Threat Detection	Mohamed Goma Gendy*, momen hesham, Mohamed Essam Abd eltawab, Mena Hany, Mohamed Bahaa Eid, ahmed mahmed sayed, Wael Farouk Elersy	02:10	On Campus

“*” Corresponding author



Computer Vision			(13 th July 2024)
Session ID: 2	Room: C112	Zoom Link: https://us06web.zoom.us/j/9912374743?pwd=GHSxnTjyamzRjVOWFiY6d2wgQfjzvn.1&omn=86338017464	
Chair: Hala Zayed		Co-Chair: Zeinab Taha	Assistant: Rana Wally

Paper ID	Paper Title	Authors	Schedule	Presenting
37	A Mobile-Based Deep Learning System for Skin Disease Diagnosis	Gehad Ismail Sayed*, Esraa Darwish, Wafaa Abdelgawad, Marwan Makhoulouf, Hady Abdalla, Youssef Nassar, Mohammed El-tohamy	12:30	On Campus
100	Ontology-based Approach to Context Modeling for Late Blight Disease Management in Irish Potato	Joan N Gichuru*, Waweru Mwangi, Richard Rimiru	12:50	On Campus
154	Mental Health Assessment: Analyzing Body Language Patterns and Emotional Expression	Basma Tarik Mohammed*, Sama Ehab, Wael Hassan Gomaa	01:10	On Campus
179	Analyzing Handwriting to Infer Personality Traits: A Deep Learning Framework	Ahmed Mohamed Ahmed*, Ammar W Selim, Abdelaziz Ashraf, Ehab E Zakaria	01:30	On Campus
182	Unsupervised Spatiotemporal Autoencoder for Effective Crowd Anomaly Detection	Ahmed Hosam Mohie*, Omar Hesham, Ahmed Elshafee	01:50	On Campus
199	The Detection Of Abnormal Breathing Patterns For Early Disease Detection In Cattle Using Optical Flow, Transfer Learning, And Ensemble Techniques	Farida S Elsayaad*, Mahmoud Hossam Daker, Ayman Ezzat	02:10	On Campus

** Corresponding author



Computer Vision		(13 th July 2024)	
Session ID: 3	Room: C114	Zoom Link: https://us06web.zoom.us/j/4186634029?pwd=tCUXCab0Pas6IWsbceR7i1nDWCCd0h.1&omn=84203745559	
Chair: Khaled Tawfik		Co-Chair: Farid Ali	Assistant: Mena Hany

Paper ID	Paper Title	Authors	Schedule	Presenting
84	Improving Land Cover Change Detection using YOLO segmentation and Comparative Polygon Analysis	George Elkess*, Seif Elmoushy, Abdelrahman Ezzeldin Nagib, Ayman Ezzat	12:30	On Campus
167	Framework For Adaptive Traffic Light System	Mohamed Ayman*, Farah Darwish, Ammar Mohammed Ammar	12:50	On Campus
168	Retail Enhancement Using Computer Vision Models	Ghassan Mouez Zgorni, Adham kossay Mahmoud, Salma el masry, Renada taema, Sama Amr	01:10	On Campus
173	Comparative Study of Microscopic Fungii Classification Using Transfer Learning Models	Habiba Mohamed*, Abdelrahman Ezzeldin Nagib, Mena Hany	01:30	On Campus
189	Behavioral Analysis of Insects pollination effects: A Precision Agriculture Approach	Michael Atef*, Ahmed Mahmoud, Ammar Mohamed	01:50	On Campus
196	Ensemble Deep Learning Framework for Monitoring of Garment Sewing Employee Added Value	Mohamed Ashraf*, Mustafa W. Marzouk, Ammar Mohammed Ammar, Aly Fathy	02:10	On Campus

“*” Corresponding author



Natural Language Processing		(13 th July 2024)	
Session ID: 4	Room: C116	Zoom Link: https://us06web.zoom.us/j/2516450566?pwd=Ykxz7ynLoBdCdnwVWwRxdDOUGmhlG1.1&omn=85179512016	
Chair: Ghada Khoriba		Co-Chair: Mohamed Labib	Assistant: Abdelaziz Ashraf

Paper ID	Paper Title	Authors	Schedule	Presenting
17	ArFakeDetect: A Deep Learning Approach for Detecting Fabricated Arabic Tweets on COVID-19 Vaccines	Samar Mahmoud Abd El-Mageed*, Amal Elsayed Aboutabl, Ensaf Mohamed	12:30	Online
63	Investigating the Robustness of Arabic Offensive Language Transformer-based Classifiers to Adversarial Attacks	Maged F. Abdelaty*, Shaimaa Lazem	12:50	On Campus
76	Topic Modelling Swahili using LDA and Contextualized Embeddings	Dorothy W Nyaga*, Waweru Mwangi	01:10	Online
128	A Comprehensive Comparative Analysis of Deepfake Detection Techniques in Visual, Audio, and Audio-Visual Domains	Ahmed Ashraf*, Ghada Khoriba, Amr S. Ghoneim	01:30	On Campus
129	Detecting Diabetes Misinformation: Leveraging Medical Expertise and NLP Models for Effective Detection	Ebraam Hani Aziz*, Mohamed Tharwat, abdelrahman Said, ahmed ibrahim	01:50	On Campus
203	HistoryQuest: Arabic Question Answering in Egyptian History with LLM Fine-Tuning and Transformer Models	Asmaa M Elmaghraby*, Samaa M El-Emary, Esraa N Sayed, Mohamed Abdelmaged Essawey, Amira Ahmed Elsharaby, Ali Marzban, Wael Abouzed	02:10	On Campus

*Corresponding author



Computer Vision		(13 th July 2024)	
Session ID: 5	Room: C117	Zoom Link: https://us06web.zoom.us/j/9886803719?pwd=liTPOCKGNcjND55T6ZS1Mcmd100rNf.1&omn=81037276878	
Chair: Mohamed El-Taweel		Co-Chair: Wael El-Sersy	Assistant: Habiba Mousa

Paper ID	Paper Title	Authors	Schedule	Presenting
148	Enhancing Garment Sewing Employee Added Value Monitoring using a Video-Based Spatio-Temporal Approach through Computer Vision	Mustafa W Marzouk*, Mohamed Ashraf, Ammar Mohammed Ammar	12:30	On Campus
185	Comparative Analysis of Movement Segmentation Techniques in Untrimmed Videos Using Optical Flow and Frame Differencing using the Dollar1 Unistroke Recognizer	Mostafa Ameen*, Mazen Walid Fikry, Moamen Zaher, Ayman Ezzat	12:50	On Campus
190	Enhancing Industrial Environmental Safety Using Computer Vision	Sara Mohamed*, Ammar Mohammed Ammar, Bassant Yasser Shendy	01:10	On Campus
193	Mapping Rats Movements: Tracking and Visualizing Heatmaps and Trajectories Using Computer Vision	Mohamed Hany*, Khaled Mostafa, Ayman Ezzat, Abdelaziz Ashraf, Mai Zafaan	01:30	On Campus
229	GCF: Graph Convolutional Networks for Facial Expression Recognition	Mohamed Bahaa Eid*, Ali Hamdi, hozaifa fadl ali	01:50	On Campus
230	MMIS: Multimodal Dataset for Interior Scene Visual Generation and Recognition	Mohamed Bahaa Eid*, Hozaifa fadl ali, ahmed mahmoud, Ammar Mohamed, Ali Hamdi	02:10	On Campus

"*" Corresponding author



Network & Security

(13th July 2024)

Session ID: 6	Room: C111	Zoom Link: https://us06web.zoom.us/j/2733114959?pwd=ep7LFgdGaw5NUA3k4UXIAMOWfank8x.1&mn=83861916779
Chair: Nermin Hamza	Co-Chair: Ahmed Shamy	Assistant: Mostafa Saeed

Paper ID	Paper Title	Authors	Schedule	Presenting
27	Accurate Prediction of Network Slices using 1D-CNN with Low Carbon Footprint	Heba Sherif*, Eman Ahmed, Amira Kotb	03:00	Online
43	Ransomware Detection Using Machine Learning Algorithms	Wael Farouk Elersy*, Ahmed M ELShamy, Moataz A. Samy	03:20	On Campus
45	Network Intrusion Detection Using Deep Belief Network (DBN)	Wael Farouk Elersy*, Ahmed M ELShamy, Moataz A. Samy	03:40	On Campus
46	XSS Attack Detection Using Machine Learning	Wael Farouk Elersy*	04:00	On Campus
80	Adaptive Memory Differential Evolutionary Algorithm for Network Management Using Variants of Dominating Set Models	Abdel-Rahman Hedar*, Fatma Tarek, Mostafa Mohamed, Gamal El-Sayed	04:20	On Campus
109	Quantum Computing's Impact on Data Encryption: Methodologies, Implementation, and Future Directions	Omar Hesham Kamel*, Atef Raslan, Tarek Ali, Mervat Gheith	04:40	Online

“*” Corresponding author



Artificial Intelligence

(13th July 2024)

Session ID: 7	Room: C112	Zoom Link: https://us06web.zoom.us/j/9912374743?pwd=GHSxnTjyamzRjVOWFiY6d2wgQfjzvn.1&omn=86338017464
Chair: Wael Gomaa	Co-Chair: Nehal Ali	Assistant: Rana Wally

Paper ID	Paper Title	Authors	Schedule	Presenting
14	Exploration of Trust-Based Collaborative Intrusion Detection System Development:A Survey	Tejaswini S Pawar*, Jyoti Rao, Pramod Patil	03:00	Online
38	Optimizing ASD Diagnosis: Enhanced Autism Spectrum Disorder Prediction Using Machine Learning Classifiers	Arar suleiman Al Tawil*, Diao Salama	03:20	Online
47	Machine Learning-Based Solution for SMS Spam Detection Problem	Ahmed Younes Shdefat*, Diao Salama	03:40	Online
48	Comparative Analysis of Machine Learning Models in Online Payment Fraud Prediction	Ahmed Younes Shdefat*, Diao Salama	04:00	Online
82	Bilingual Fake News Detection: Leveraging Deep Learning for Arabic and English Media	Nour Mostafa*, Diao Salama	04:20	Online
83	ML_MastercardFraud Machine Learning's Mastery in Credit Card Fraud Detection	Nour Mostafa*, Diao Salama	04:40	Online
120	Leveraging YOLOv9 for Enhanced Skin Cancer Detection: A Deep Learning Approach	Wael Badawy*, Nourhan elnady; Aya Adel	05:00	On Campus

“*” Corresponding author



Natural Language Processing			(13 th July 2024)
Session ID: 8	Room: C114	Zoom Link: https://us06web.zoom.us/j/4186634029?pwd=tCUXCab0Pas6lWsbceR7i1nDWCCd0h.1&omn=84203745559	
Chair: Abdelaziz Ahmed	Co-Chair: Islam El-Sharaawy	Assistant: Mena Hany	

Paper ID	Paper Title	Authors	Schedule	Presenting
8	Innovative Approaches to Arabic Author Identification: A Comprehensive Evaluation of Classical and Deep Learning Approaches	Deema AlSekait*, Diaa Salama	03:00	Online
77	ArabicQuest: Enhancing Arabic Visual Question Answering with LLM Fine-Tuning	Asmaa M Elmaghraby*, Samaa M El-Emary, Esraa N Sayed, ..., Ghada Khoriba	03:20	On Campus
176	Elevating Assessment: Advancing Short Answer Evaluation through Embedding and Text Alignment	Muhammed W Wagdy*, Farah Khaled Hegab, Mostafa Mohamed Saeed, Hesham A. Mansour, Wael Hassan Gomaa	03:40	On Campus
178	Advancements in Arabic tweets Sarcasm Detection & Sentiment Analysis with Fine-Tuned Models	Abdelaziz Ashraf*, Mostafa Mohamed Saeed, Rana Reda Waly, Wael Hassan Gomaa	04:00	On Campus
180	Unlocking Arabic Script: OCR Technology for Efficient Text Extraction	Mohamed Magdi Hamza*, Abdelaziz Ashraf, Wael Hassan Gomaa	04:20	On Campus
202	Optimizing Text Classification: A Comparative Analysis of Pre-trained Models and Custom Neural Network Architectures on the AuTextification Dataset	Dalia Hamdy Fouad*, Wael Hassan Gomaa, Rana Reda Waly	04:40	On Campus

* Corresponding author



Machine Learning		(13 th July 2024)	
Session ID: 9	Room: C116	Zoom Link: https://us06web.zoom.us/j/2516450566?pwd=YkxzZ7ynLoBdCdnwVWrXrdDOUGmhlg1.1&omn=85179512016	
Chair: Khaled Hussien		Co-Chair: Ahmed El-Shafiee	Assistant: Abdelaziz Ashraf

Paper ID	Paper Title	Authors	Schedule	Presenting
33	Deep learning approach for hepatic lesion detection	Manal makram*, Ammar Mohamed	03:00	On Campus
51	Integrating fusion autoencoder with multi-agent reinforcement learning for optimal energy dispatch under uncertainties	ChangKyoo Yoo*, Abdulrahman H. Ba-Alawi, Sangyoun Kim, Hanaa Aamer, SungKu Heo	03:20	On Campus
60	Intelligent Real-Time Hypoglycemia Prediction for Type 1 Diabetes	Nevien Ashraf Mahdy*	03:40	On Campus
62	Impact of Feature Selection and Interactions on Accuracy of Classical Machine Learning Algorithms: A Driver Behavior Case Study	Rabab Gamal Saber*, Mirvat M Al-Qutt, Heba khaled, Mahmoud F. Khalil, Said Ghoniemy	04:00	On Campus
144	Referring Video Object Clustering (RVOC)	Steven H Saad*, Mina S Ghobrial, Moamen Zaher	04:20	On Campus
152	ADHD Behavior Monitoring Using Deep-Learning Models	Habiba Wael Elkashef*, Mena Hany, Mariam Bakr, Ayman Ezzat	04:40	On Campus

“*” Corresponding author



Machine Learning & Robotics			(13 th July 2024)
Session ID: 10	Room: C117	Zoom Link: https://us06web.zoom.us/j/9886803719?pwd=liTPOCKGNcjND55T6ZS1Mcxd100rNf.1&omn=81037276878	
Chair: Hossam Mekawy		Co-Chair: Magda El-Daghestani	Assistant: Habiba Mousa

Paper ID	Paper Title	Authors	Schedule	Presenting
103	Blockchain-Based Framework for Secure Robotics Communication	Ahmed Gamal Ibrahim*, Mohammed Awad, Omar M Shehata	03:00	Online
112	Fake Reviews Detection Using Deep Learning: A Survey	Yasmeen Abdelmohsen*	03:20	On Campus
140	Kinematic Modeling and Simulation of Multi-Turning Gaits of Hexapod Walking Robot	Abdelrahman S Zaghloul*, Ahmed Fawzy Baza, Ehab Said, Ibrahim El-Sherif	03:40	On Campus
197	Enhancing Brain Tumor Classification: Ensemble Approaches with Prediction and Feature Fusions	Tukka Mohamed Eldesouky*, Samar Ghoneim, Sara Hany, Ammar Mohammed Ammar	04:00	On Campus
160	Autistic Spectrum Disorder Screening Classification with Machine Learning Approaches	Hiba Alsmadi*, SERIFAT FOLORUNSO, Ala Alkafri, Gok Kandasamy	04:20	On Campus
153	Enhancing Physical Therapy through Transformer-Based Models: A Study on Exercise Classification	Alaa Taie*, Abdalla Hamdy, Moamen Zaher, Omnia Saeed, Asmaa Al-Emrany, Ayman Ezzat	04:40	On Campus

“*” Corresponding author



Machine Learning & Human-Computer Interaction			(14 th July 2024)
Session ID: 11	Room: C111	Zoom Link: https://us06web.zoom.us/j/2733114959?pwd=ep7LFgdGaw5NUA3k4UXJAMOWfank8x.1&omn=83861916779	
Chair: Seif El-Dawlatly		Co-Chair: Ali Hamdi	Assistant: Mostafa Saeed

Paper ID	Paper Title	Authors	Schedule	Presenting
15	Early Skin Cancer Detection Based on MobileNet & VGG-16	Mohamed Darweesh*, Abdelrahman Ezzat, Mazen Mobtasem, Salma Moustafa, Mohamed Elmeligy	11:30	On Campus
28	Heart Rate Estimation from Facial Videos Using 2D Convolution Neural Network	Ahmed Alenany*, Omar Mohamed, Ahmed Mohamed	11:50	Online
29	Enhancing Usability of Learning Management Systems through Personalization	Dina A. Zekry*, Khaled Nagaty, Gerard T. McKee	12:10	On Campus
55	Online Payments Fraud Detection using Machine Learning Techniques	Hend Abdelbakey Atia*	12:30	Online
151	Beyond Touch: A Comparative Study of Multi-Modal Interaction for Enhancing Smart Tables	Mohamed Ashraf*, Mustafa WMarzouk, Nadeen Amgad, Ayman Ezzat	12:50	On Campus
226	Enhancing Road Safety: Leveraging CNN-LSTM and Bi-LSTM Models for Advanced Driver Behavior Detection	Ahmed Diaaeldin*, Moamen Zaher	01:10	On Campus

“*” Corresponding author



Computer Vision

(14th July 2024)

Session ID: 12	Room: C112	Zoom Link: https://us06web.zoom.us/j/9912374743?pwd=GHsxnTjyamzRlVOWFiY6d2wgQfjzvn.1&omn=86338017464
Chair: Amaal Aboutabl	Co-Chair: Mai Hassan	Assistant: Rana Wally

Paper ID	Paper Title	Authors	Schedule	Presenting
13	Enhanced Human-Robot System for Underwater Divers' Hand Gesture Recognition	Wessam H. El-Behaidy*, Mohamed Mokhtar, Hossam Sayed, Mohamed Kamel, Mohamed Labib, Omar Abdel-Halim	11:30	On Campus
136	Arabic Handwritten Text for Person Biometric Identification: A Deep Learning Approach	Youssef MK Mohamed*, Mazen Balat, Ahmed Mohamed Heakl, Ahmed B Zaky	11:50	On Campus
138	Advancing Ear Biometrics: Enhancing Accuracy and Robustness through Deep Learning	Youssef MK Mohamed*, Zeyad Youssef, Ahmed Mohamed Heakl, Ahmed B Zaky	12:10	On Campus
165	AI-Powered Instant Textual Feedback on Physiotherapist Student Practical Performance	Hiba Alsmadi*, Oluwasegun Odesola, Ala Alkafri, Gok Kandasamy	12:30	On Campus
205	Egyptian Car Plate Detection and Recognition Using Computer Vision	Shahd Tarek*, Marena Anis, Ammar Mohammed Ammar	12:50	On Campus
227	RHRSegNet: Relighting High-Resolution Night-Time Semantic Segmentation	Sarah K Abdallah*, Rodaina M Hebishy, Ali Hamdi	01:10	Online

** Corresponding author



Machine Learning & Data Science

(14th July 2024)

Session ID: 13	Room: C114	Zoom Link: https://us06web.zoom.us/j/4186634029?pwd=tCUXCab0Pas6IWsbceR7i1nDWCCdOh.1&omn=84203745559
Chair: Mohamed Tharwat	Co-Chair: Hesham Mansour	Assistant: Mena Hany

Paper ID	Paper Title	Authors	Schedule	Presenting
36	Improving Crop Recommendations with Augmented Reality and Sensor Data Analysis	Sahar Ibrahim Ghanem*, Moustafa Zaalouk, Asmaa Elbanna	11:30	On Campus
99	Exploring the Frontiers of Knowledge Graph Embeddings: Methods, Challenges, and Applications	Fatma Isa*	11:50	On Campus
102	From Data to Decisions: Enhancing Crowdfunding Strategies AI-driven and Business Intelligence Techniques	Haidy Haitham Hejazy*, Nadeen Amgad, Hanan Tarek, Marwa Solayman	12:10	On Campus
157	Brain MRI classification and segmentation of Glioma, Pituitary and Meningioma Tumors using Deep Learning approaches.	Nathalie A Haddad*, Hassan Mostafa Khalil, Habiba Mohamed, Zeinab Taha	12:30	On Campus
191	Virtual Utopia: AI-Enhanced 3D Room Design Simulation for Optimal Furniture Layout	Maryam Mamdouh Aly*, Sohaila Ismail El Sayed, Zeinab Taha	12:50	On Campus
204	Enhancing Brain Tumor Classification: A Comparative Study of Single-Model and Multi-Model Fusion Approaches	Mariam ahmed elkhoulouli*, Moamen Zaher, Ammar Mohamed	01:10	On Campus

“*” Corresponding author



Machine Learning & Evolutionary Algorithm

(14th July 2024)

Session ID: 14	Room: C116	Zoom Link: https://us06web.zoom.us/j/2516450566?pwd=YkXz7ynLoBdCdnwVWrXrdDOUGmhlgl1.1&omn=85179512016
Chair: Walaa Elashmawy	Co-Chair: Ali Khater	Assistant: Abdelaziz Ashraf

Paper ID	Paper Title	Authors	Schedule	Presenting
10	An AI-Based Automatic Speech Recognition for Chongqing Dialect older adults with Cognitive Impairment	Meiwei zhang*, Wenyan Li, Lihua Chen, Qiushi Cui, Juan Yu, Weihua Yu, Xianglin Wang	11:30	Online
25	A Concise Review on Deep Learning Methods in Agricultural Applications	Mohd Asyraf Zulkifley*, Nur Alia Sofia Maluazi, zulaikha kadim	11:50	Online
50	Optimizing Gas Station Control Officer Routes Using the Firefly Algorithm	Amalia Utamima*, Sulis Putra	12:10	Online
122	Harnessing YOLOv9 for Enhanced Detection of Lung Cancer: A Deep Learning Approach	Wael Badawy*, Nourhan elnady, Aya Adel	12:30	On Campus
143	Focus in on Carbon Dioxide Footprint of AI/ML Model Training	Samr Ali*, Emmanuel Thepie Fapi, Brigitte Jaumard, Antoine Planche	12:50	Online
161	Correlated, Yet Independent: A Correlation Based Feature Selection Algorithm	Dirar Sweidan*	01:10	Online
224	Eyeing the Interface: Advancing UI/UX Analytics Through Eye Gaze Technology	Ahmed Wasfy*, Nourhan Anber, Ayman Ezzat	01:30	Online

“*” Corresponding author



Machine Learning

(14th July 2023)

Session ID: 15	Room: C111	Zoom Link: https://us06web.zoom.us/j/2733114959?pwd=ep7LFgdGaw5NUA3k4UXJAMOWfank8x.1&omn=83861916779	
Chair: Iman Helal		Co-Chair: Marwa Solyman	Assistant: Moustafa Saeed

Paper ID	Paper Title	Authors	Schedule	Presenting
1	Classifying Parkinson's Disease using Speech features	Malak Amgad Dahy*, Hala Soliman, Mena Osman, Mohammed ELshourbagi, mohamed ELsaid, Nora M El-Rashidy, Bassant mesilam	02:00	On Campus
20	Enhancing Healthcare Service with Firebase Integration and Intelligent Chatbot Deployment	Sahar Ibrahim Ghanem*, Esraa Hamshary, Lamis Matar, Adham Morsy	02:20	On Campus
97	Unveiling Stress: A Comparative Analysis of Multimodal Sensor Fusion Techniques for Predictive Modeling	Noha Ahmed Saad*, Raghda Essam Ali, Mustafa Ezzeldin, Moamen Zaher	02:40	On Campus
166	From Data to Diagnosis: Investigating Approaches in Mental Illness Detection	Reem Kadry*, Iman M. A. Helal, Sherif A. Mazen	03:00	On Campus
207	Refined Alzheimer's Disease Classification: Leveraging MRI-Based Deep Learning Techniques	Raghda Essam Ali*, Farid Ali Mousa, Ehab H. Ezzat, Reda El-Khoribi	03:20	On Campus
210	AI-Driven Approach for Diagnosis and Treatment Selection for Hepatocellular Carcinoma	Hanan Tarek*, Nada Khaled Elsied, Ammar Mohamed	03:40	On Campus

“*” Corresponding author



Natural Language Processing & Medical Image

(14th July 2023)

Session ID: 16	Room: C112	Zoom Link: https://us06web.zoom.us/j/9912374743?pwd=GHsxnTjyamzRJVOWFiY6d2wgQfjzvn.1&omn=86338017464	
Chair: Ashraf Abd El-Raouf		Co-Chair: Maged Abd El-Ati	Assistant: Rana Wally

Paper ID	Paper Title	Authors	Schedule	Presenting
9	Harnessing Deep Learning for Effective Extractive Text Summarization: A Comparative Study	Deema AlSekait*, Diah Salama	02:00	Online
57	Automated Deep Learning Pipeline for Accurate Segmentation of Aortic Lumen and Branches in Abdominal Aortic Aneurysm: A Two-Step Approach	Fatma Nasr Hassan*, Ahmed Elnokrashy	02:40	On Campus
94	Multiple Sclerosis (MS) Classification and detection	Youssef Sharabas*, Yasmine Abou Ouf, Zeinab Taha	03:00	On Campus
126	Uni-Buddy: A Multifunctional AI-Powered Assistant for Enhancing University Life: A Use Case at Nile University	Ahmed Hamdy*, Mohamed Yasser, Khaled Mohey, Ahmed Heikal, Ahmed Ehab, Adham Emad	03:20	On Campus
171	Computer-Based Machine learning Model for Supporting and Healing ACL Injury for Athletes	Ali Yasser Hamdy*	03:40	On Campus
221	Enhancing Road Safety: A Comprehensive Driver Behavior Scoring Framework with K-means Action Segmentation and Deep Learning Behavior Detection	Farida Yasser Youssef*, Souzan H Roshdy, Hatem El Zomor, Ziad Gamal, Basmalla Ibrahim, Raghda Essam Ali, Ayman Ezzat	04:00	On Campus

“*” Corresponding author



Evolutionary Algorithms

(14th July 2023)

Session ID: 17	Room: C114	Zoom Link: https://us06web.zoom.us/j/4186634029?pwd=tCUXCab0Pas6IWsbceR7i1nDWCCdOh.1&omn=84203745559	
Chair: Diaa Salama		Co-Chair: Mohamed Ghoniemy	Assistant: Mena Hany

Paper ID	Paper Title	Authors	Schedule	Presenting
12	Sustainable Energy-Aware Task Scheduling for Wearable Medical Device Using Flower Pollination Algorithm	Mohamed Darweesh*, Samah Mohamed Mahmoud, Mahmoud Elbayoumi, Ahmed Soltan	02:00	On Campus
39	Modeling Hot Rolling Process Forces Using Bio-inspired Metaheuristic Search Algorithm	Walaa Ashmawi*, Alaa Fathy Sheta, Malik Braik, Ertan Oznergiz, Emad Othman	02:20	On Campus
107	Enhancing Data Quality in Smart Video Surveillance Systems: A Whale Optimizer-Based Imputation Algorithm	Mahmoud M. Eid*, Kamal ElDahshan, Abdelatif H. Abouali	02:40	On Campus
183	EncodKNN: Augmenting KNN with Autoencoder for computational cost reduction	Shereen Fathy El-Feky*, Ali Khater, Ammar Mohammed Ammar	03:00	On Campus
201	A Comprehensive Inventory Management System for UPVC Companies: Optimizing Cutting, Simplifying Ordering	Rowan Abdelhafez*, Islam elShaarawy, Mostafa Touny	03:20	On Campus
212	Unraveling the Efficacy of Queuing Search Against Quadratic Assignment Problem: Comparative Metaheuristic Examination	Ahmed A El-Darawi*, Mohamed Ghoneimy	03:40	On Campus

“*” Corresponding author

**IMSA
2024**

THANK YOU

