IMSA 2025 Conference Agenda

International Conference on Intelligent Methods, Systems, and Applications 25 July 12-13, 2025

Saturday, July 12, 2025

Time			Sessions/Events		
09:00 AM - 09:30 AM			Registration		
09:30 AM - 10:00 AM			Opening Session		
10:00 AM - 10:30 AM			Keynote Speaker (Dr. Mahmoud Elsisi)		
10:30 AM - 11:00 AM		Comp	any Seminar (Reso) Al advancements shaping industry pr	actice	
11:00 AM - 11:30 AM			Coffee Break		
11:30 AM - 01:30 PM	NLP Room C111 Chair: Walaa Ashmawy Co-Chair: Zeinab Taha Papers: 320, 324, 328, 329, 360, 363	Modeling and Simulation Room C114 Chair: Mohamed Mostafa Eltaweel Co-Chair: Ali Khater Papers: 17, 41, 106, 311, 379	Al Room C116 Chair: Fatma Emara Co-Chair: Hesham Mansour Papers: 114, 377, 386, 391, 392	NLP Room C112 Chair: Ashraf Abdeiraouf Co-Chair: Mohamed Amir Papers: 43, 51, 59, 68, 110, 308	CV Room C117 Chair: Samar Nour Co-Chair: Rabab Nabawy Papers: 387, 388, 400, 406, 415
01:30 PM - 02:00 PM			Break		
02:00 PM - 04:00 PM	Online Room C117 Chair: Noha Ramadan Co-Chair: Mohamed Labib	CV Room C114 Chair: Hossam Mekway Co-Chair: Samar Adel	ML Room C112 Chair: Amaal Aboutabl Co-Chair: Ahmed Elshamy	Al Room C111 Chair. Noha Gamal Saad Co-Chair. Maha Hatem	Networks Room C116 Chair: Nermin Hamza Co-Chair: Amr elmaghraby
	Papers: 7, 29, 40, 87, 96, 134, 136	Papers: 306, 316, 325, 330, 333, 335	Papers: 318, 364, 381, 382, 408, 418	Papers: 341, 352, 362, 367, 370	Papers: 38, 39, 58, 186, 348

Sunday, July 13, 2025

Time			Sessions/Events		
09:30 AM - 10:00 AM			Registration		
10:00 AM - 10:30 AM			Keynote speaker (Dr.Ahmed Ragab)		
10:30 AM - 11:00 AM		Co	ompany Seminar (Fortinet) Cybersecurity Interactive Worksho	р	
11:00 AM - 11:30 AM			Coffee Break		
11:30 AM - 01:30 PM	Al	Software Engineering	Bioinformatics & Health Informatics	CV	NLP
	Room C111 Cheir: Mohamed Tahrwat Co-Chair: Nermin Kamal Papers: 13, 50, 127, 157, 289	Room C116 Chair: Eman helal Co-Chair: Marwa Soliman Papers: 130, 137, 138, 155, 177, 417	Room C114 Chair: Abdelaziz Ahmed Co-Chair: Mohamed Nagy Papers: 98, 105, 115, 317, 332, 393	Room C112 Chair: Shaira Azzab Co-Chair: Moataz Samy Papers: 60, 80, 131, 149, 274, 294	Room C117 Chair: Sherif Eletriby Co-Chair: Wael Gomaa Papers: 169, 222, 349, 383, 407, 419
01:30 PM - 02:00 PM			Break		
02:00 PM - 04:00 PM	HCI Room C116 Chair: Self Eldawlatly Co-Chair: Mohamed Hossam Papers: 305, 354, 399, 404, 411, 412	AI Room C111 Chair: Amr Sabry Co-Chair: Ali Somai Papers: 139, 327, 375, 398, 403	CV Room C112 Chair: Samer Ibrahim Co-Chair: Zeinab Taha Papers: 53, 292, 368, 410, 420	ML Room C114 Chair. Yehia Elhalwagy Co-Chair. Yasmin Farouk Papers: 92, 150, 237, 291, 301, 302	Online Room C117 Chair: Ibrahim Eldesouki Co-Chair: Farid Ali Papers: 146, 162, 281, 295, 336, 345, 361
04:00 PM - 04:30 PM			Closing Ceremony		

Session 1 - NLP

Session 1

ROOM: C111 TOPIC: NLP

START: Jul 12, 2025, 11:30 AM **END:** Jul 12, 2025, 01:30 PM

Chair: Walaa Ashmawy **Co-Chair:** Zeinab Taha

PAPER #	TITLE	AUTHORS	START TIME
320	Ensemble Transformers for Arabic Medical Text Classification	Elashry, Malak*; Abouramadan, Rokaia; Hamdi, Ali	11:30 AM
324	Unraveling Paraphrase Detection: A Deep Dive into Transformer Models using the MRPC dataset Before LLMs	Walid Abdelsalam, Farah*; Safwat Elewa, Mariam ; Hassan Gomaa, Wael	11:50 AM
328	From LSTM to Chronos: Evaluating Deep Learning Models for Predictive Maintenance	Benzine, Fatima Khadija*; BELDJOUDI, Samia; Benzine, Abdallah Zakaria; ZOUAGHI, Iskander; Haouari, Fouad; SERIDI, Hassina	12:10 PM
329	Attentional Language Modeling for Text to 3D Generation	Labib, Marena*; Hamdi, Ali	12:30 PM
360	Arabic Symptom Classification and Diagnosis Using Transformer Models and LLM-Based Augmentation	Allam, Abdulrahman*; Ahmed, Seifeldein; Hamdi, Ali; Mohammed, Ammar	12:50 PM
363	Few-Shot Prompting for Improved Span-Level Understanding of Quranic Question Answering	Basem, Mohamed*; Oshallah, Islam ; Hamdi, Ali ; Mohamed, Ammar	01:10 PM

Session 2 - Modeling and Simulation

Session 2

ROOM: C114 TOPIC: Modeling and Simulation

START: Jul 12, 2025, 11:30 AM **END:** Jul 12, 2025, 01:30 PM

Chair: Mohamed Mostafa Eltaweel

Co-Chair: Ali Khater

PAPER #	TITLE	AUTHORS	START TIME
17	Deformation Prediction of Ground Radar Based on GRUU-Net With Attention Mechanism Model	Helmy, Islam; Fayed, Mohamed*; Schenk, Andreas; Hexel, Rene; Tuxworth, Gervase	11:30 AM
41	Solution of Time-Dependent Schrödinger Equation using Physics-based Neural Network	Mahmud, Istiak*; Abdelhadi, Ahmed	11:50 AM
106	Artificial Intelligence based Multiport converter for Seamless Integration of Hybrid energy sources	A. Mahmoud, Alaa; Aymen, Mahmoud*; A. Hafez, Ahmed	12:10 PM
311	From Formal Models to Learned Dynamics: a Continuous Petri Net–Neural Network Framework for Liver Iron Metabolism	Selim, Arwa*; Ismail, Amr; Salama, Ahmed; Herajy, Mostafa	12:30 PM
379	Optimizing Dynamic Computing Environments Using Adaptive Intelligent Load Balancing	Diab, Ahmed*; Ashour, Mohamed	12:50 PM

Session 3 - AI

Session 3

ROOM: C116 TOPIC: AI

START: Jul 12, 2025, 11:30 AM **END:** Jul 12, 2025, 01:30 PM

Co-Chair: Fatma Emara

Co-Chair: Hesham Mansour

PAPER #	TITLE	AUTHORS	START TIME
114	Developing Hexapod Locomotion Through Reinforcement Learning	Taha, Mohammed*	11:30 AM
377	Deep Learning-Based Multi-Class Diagnosis of Lung Diseases from Chest X-Ray Images	Essmat, Reem*; solyman, marwa; essam, raghda	11:50 AM
386	Cashflow AI: An Intelligent Financial Management System for Small Businesses and Retailers	abdelazim, ziad*; Mohamed, AbdAlrhman; Sayed, Malak; fouad, Omar; radwan, ziad; elshafei, Eng.omar; Ali , Dr.raghda	12:10 PM
391	Adaptive Urban Pathfinding Using Deep Learning and Heuristic Optimization	Abo El-Ela, Mohamed*; Hamdi, Ali	12:30 PM
392	Dual-Path LSTM and Cross-Attention Network for Richer Image Captioning	Nagib, Abdelrahman*; Mahmoud Abd El-Wahab, Mohamed; Khater Mohamed, Ali; Omara, Fatma A.	12:50 PM

Session 4 - NLP

Session 4

ROOM: C112 TOPIC: NLP

START: Jul 12, 2025, 11:30 AM **END:** Jul 12, 2025, 01:30 PM

Chair: Ashraf Abdelraouf **Co-Chair:** Mohamed Amir

PAPER #	TITLE	AUTHORS	START TIME
43	Empathetic AI for Mental Health: A Comparative Study of Retrieval-Augmented Language Models in CBT Applications	Yahia, Ahmed*; Amin, Ahmed; Bakry, Mohamed; Radwan, Nada; Yossef, Nourhan; Ahmed, Ibrahim; Saad, Noha Gamaleldin	11:30 AM
51	Refining Two Convolutional Neural Networks Architectures for Image Classification Applications	Ouda, Lara*; Wagdy, Verina; Elkhouly, Ola; Edward, Phoebe	11:50 AM
59	AI-Based Examination Content Creation: Evaluating Large Language Models for Question Generation	Abdelhamied, Shahd*; Khaled, Kenzy; Mohamed, Cecilia ; Khaled, Mohamed; Mohamed, Zeyad ; Gamal, Noha	12:10 PM
68	A Transformer-Driven Bilingual Approach to Arabic Text Summarization	Younes, Mohamed; Hany, Mohammed*; Osama, Abdelhakim; Saad, Noha	12:30 PM
110	Smart Review Analyzer: A Multiplatform AI System for Aspect- Based Sentiment Analysis on E-commerce Products	Mohamed, Soha*	12:50 PM
308	Fusion Strategies for Embedding Models: Enhancing Text Representations Across MTEB Tasks Through Lightweight and Trainable Ensembles	$Akl, Amr^*; Hamdi, Ali$	01:10 PM

Session 5 - CV

Session 5

ROOM: C117 TOPIC: CV

START: Jul 12, 2025, 11:30 AM **END:** Jul 12, 2025, 01:30 PM

Chair: Samar Nour
Co-Chair: Rabab Nabawy

PAPER #	TITLE	AUTHORS	START TIME
387	Smart System for Monitoring Student Behavior	ELShamy , Ahmed *; salah, armia; taha, ahmed	11:30 AM
388	Enhanced Deepfake Detection Using Customized Residual Network Architectures and Cross-Dataset Evaluation	Hamza, Abdelrahman*; Mohamed, Abdullah; Mahmoud, Samar	11:50 AM
400	Advancing Zebrafish Behavioral Analysis: A Synergistic YOLOv8-DeepSORT Framework for Precision Tracking	Aboud, Haidy*; Tarek, Hanan; Atia, Ayman	12:10 PM
406	MSA University Campus Indoor Navigation and positioning System Using Augmented Reality	Elghayesh, Aly*; Mekawey, Hosam	12:30 PM
415	Deep Augmented Object Detection for Waste Material Recognition	Labib, Marena*; Hamdi, Ali	12:50 PM

Session 6 - Online

Session 6

ROOM: C117 TOPIC: Online

START: Jul 12, 2025, 02:00 PM **END:** Jul 12, 2025, 04:00 PM

Chair: Noha Ramadan

Co-Chair: Mohamed Labib

PAPER #	TITLE	AUTHORS	START TIME
7	A Hybrid Trust-Enhanced Multi-Criteria Recommender System for Dynamic Tourism Recommendations	Badouch, Mohamed*; Boutaounte, Mehdi	02:00 PM
29	MQDEB-HTGRU: A Machine Learning Methodology for Measuring the Quality of Untrusted Off-Chain Data Entering Blockchain	Sayed Younis Mohamed, Abdelrhman*; A.T.F. Taj- Eddin, Islam; M. Omar, Nagwa; M. Ibrahim, Hosny	02:20 PM
40	Scaling Byzantine Consensus: A Sharded and Pipelined Approach for Permissioned Blockchains	Labib, Mohamed*; Aslan, Heba; Arafa, Tamer	02:40 PM
87	Enhancing Automated Prostate Cancer Diagnosis in Histopathology Whole-Slide Images using Weighted-Average Ensembling	Mohammed, Mahmoud*; Farouk, Mamdouh; Hussain, Khaled; Abo El-Magd, Adel	03:00 PM
96	Universal Medical Imaging Model for Domain Generalization with Data Privacy	Radwan, Ahmed*; Osman, Islam; Shehata, Mohamed	03:20 PM
134	Smart Agriculture Clinic (SAC): A Transformative Technology- Based Solution to Agriculture Extension Problems in Egypt	Elattar, Mustafa*; Youssef, Ahmed; Naeem, Elsayed; Elhelw, Mohamed; Atwa, Atwa	03:40 PM
136	An AI-Based Framework for Detection of Toxicity Levels from Oil and Gas Flaring from Video Streams	Muhammad, Esraa; Hassan , Yomna ; Aboulhassan, Amal*	04:00 PM

Session 7 - CV

Session 7

ROOM: C114 TOPIC: CV

START: Jul 12, 2025, 02:00 PM **END:** Jul 12, 2025, 04:00 PM

Chair: Hossam Mekway
Co-Chair: Samar Adel

PAPER #	TITLE	AUTHORS	START TIME
306	Deep Learning-Based Segmentation of Periapical and Periodontal Regions in Radiographic Images with U-Net	Rizk, Mohamed*; Abd Elhalim, Zeinab; El Fadaly, Lamya	02:00 PM
316	FireModelAI: A Smart Framework for Fire Detection, Localization, and Classification Indoors	Othman, Mohamed*; Ayoub, Ahmed	02:20 PM
325	Drone-Based Face Detection and Collision Avoidance Framework	Farwiz, Mostafa*; Sabry, Mohamed; Hamed, Mohamed; Elmahdy, Hesham	02:40 PM
330	Dynamic Scene Understanding from Dashcam Videos using YOLO Detection, Monocular Depth Estimation, and Attention- Based Autoencoders	Tadros, Daniel*; AbdelRaouf, Ahmed; Mahmoud, Samar	03:00 PM
333	Enhancing Tomato Leaf Disease Detection with Deep Learning and Augmentation Techniques	tarek, shahd*; Hamdi, Ali	03:20 PM
335	Comparative Evaluation of Modular Deep Learning Pipelines for Student Engagement Detection	Salem, Mahmoud*; Mohamed, Abdallah; Shehata, Mohamed	03:40 PM

Session 8 - ML

Session 8

ROOM: C112 TOPIC: ML

START: Jul 12, 2025, 02:00 PM **END:** Jul 12, 2025, 04:00 PM

Chair: Amaal Aboutabl
Co-Chair: Ahmed Elshamy

PAPER #	TITLE	AUTHORS	START TIME
318	Advancing Quranic Semantics BERT Based Verse Relationship Classification	Khalaf, Youssef*; Hatem, Abdelmonem; Taha, Mohamed; Soltan, Mohamed; Gomaa, Wael	02:00 PM
364	AI-Driven Personalized Meal Recommendation System for Diabetes Management	Elhendawy, Adham*; Hesham, Ahmed; Hatem, Maha	02:20 PM
381	Enhancing Inertial Measurement Unit Based Posture and Motion Estimation through Multi-Modal Training Using Video Posture Detection Models	Abdalla, Misk*; Ashour, Mohamed	02:40 PM
382	Deep Learning for Microscopic Image Segmentation in Multiple Myeloma: A Comparative Study	Alatawi, Ashraf*; Mohammed, Ammar	03:00 PM
408	Predicting Glaucoma Visual Field Progression from Fundus Images with a Weighted Ensemble Method	Fouda, Mohammed*; Mohammed, Ammar	03:20 PM
418	Financial Risks Prediction Using Multiple Machine Learning And Deep Learning Techniques	Awad, Mohamed*; Hamada, Badr; Solayman, Marwa; Hassan, Mai	03:40 PM

Session 9 - AI

Session 9

ROOM: C111 TOPIC: AI

START: Jul 12, 2025, 02:00 PM **END:** Jul 12, 2025, 04:00 PM

Chair: Noha Gamal Saad
Co-Chair: Maha Hatem

PAPER #	TITLE	AUTHORS	START TIME
341	Error-Guided Pose Augmentation: Enhancing Rehabilitation Exercise Assessment through Targeted Data Generation	Sherif, Omar*; Hamdi, Ali	02:00 PM
352	AI-Driven Clinical Decision Support for Personalized Musculoskeletal Care: A Retrieval-Augmented Generation Approach	Tarek, Farah*; Mansour, Hesham; Wael, Shahd	02:20 PM
362	AI Based Bootstrapping Method for Uncertainty Management in RUL Estimation of Aircraft Turbofan Engines	Zaki, Shahd*; Mosaad, Reem; Elattar, Hatem	02:40 PM
367	Comprehensive Benchmarking of YOLO Variants for Cashew Plant Disease Detection using Drone Imagery	nafady, Menna; elfeky, Salma *; hamdi, Ali	03:00 PM
370	AI-Driven Smart Compound System for Secure Access and Intelligent Parking Management	Elsaid, Shady*; kishk, kenzy; Labib, Mohamed	03:20 PM

Session 10 - Networks

Session 10

ROOM: C116 TOPIC: Networks

START: Jul 12, 2025, 02:00 PM **END:** Jul 12, 2025, 04:00 PM

Chair: Nermin Hamza

Co-Chair: Amr elmaghraby

PAPER #	TITLE	AUTHORS	START TIME
38	A Comprehensive Intelligent System for ClassifyingDysarthric- speech Using Ai Technics	Mamdouh, Nour; Mohamed, Shahd; Elsersy, Wael*	02:00 PM
39	Find my phish: phishing detection browser extention	Khaled, Sandy*; Elsersy, Wael	02:20 PM
58	Multimodal AI-Driven Assessment of Infrastructure Resilience to Extreme Weather via Internet Connectivity and Nighttime Light Data	Abdelmohsen, SaifEldeen*; Megahed, Muhammed; Atwan, Islam; GamalEldin, Noha	02:40 PM
186	Reducing Mean Time To Respond Using Large Language Model- Driven Incident Response with the Aid of Reactively Retrieved Threat Intelligence	Abdulghany, Youssef; Zewail, Ayad*; Samy, Moataz	03:00 PM
348	An Agentic Flow for Finite State Machine Extraction using Prompt Chaining	Wael, Fares; Maklad, Youssef*; Hamdi, Ali; Elsersy, Wael	03:20 PM

Session 11 - AI

Session 11

ROOM: C111 TOPIC: AI

START: Jul 13, 2025, 11:30 AM **END:** Jul 13, 2025, 01:30 PM

Chair: Mohamed Tahrwat

Co-Chair: Nermin Kamal

PAPER #	TITLE	AUTHORS	START TIME
13	Downlink Throughput Prediction in cellular Networks using Multimodal Deep Learning Model	Tharwat, Mohamed*; Fahmy, Yasmine; Khattab, Ahmed	11:30 AM
50	Towards Transparent and Robust Early Diagnosis of Alzheimer's Disease: A Deep Learning and Visual Analytics Framework	Mohamed, Soha*	11:50 AM
127	Real-Time Lip-Sync with AI-Driven Voice cloning Technology	Tantawy, Youssef*; Hebishy, Rodaina; Mohammed, Ammar	12:10 PM
157	Brain Stroke Prediction Using Machine Learning and Deep Learning Techniques	Shaltout, Asem*	12:30 PM
289	Used Car Price Prediction and Classification Using Machine Learning Approaches	Hesham, Mostafa*; Ahmed, Hisham; Labib Borham, Mohamed	12:50 PM

Session 12 - Software Engineering

Session 12

ROOM: C116 TOPIC: Software Engineering

START: Jul 13, 2025, 11:30 AM **END:** Jul 13, 2025, 01:30 PM

Chair: Eman helal
Co-Chair: Marwa Soliman

PAPER #	TITLE	AUTHORS	START TIME
130	Comparative Study on Test Case generation using Generative AI	Azzam, Adham*; Hany, Omar; Mansour, Hesham	11:30 AM
137	Comparing Transformer-Based Log Anomaly Detection With LLM Explainability In CI/CD Pipelines	Al-Aqrabi, Qasem*; Al-Aqrabi, Hatem; Solayman, Marwa	11:50 AM
138	Analyzing Test Case Prioritization approaches With Performance and Speed Trade-offs in CI Workflows	Hassan, Abdelrahman *; Solayman, Marwa	12:10 PM
155	Microservices Architecture in Fintech: A Case-Study on Scalable Loan-Processing with Classical Design Patterns	Elrashidy, Mahmoud*; Mansour, Hesham	12:30 PM
177	LLMOps-driven Robotic Process Automation (RPA) approach	Abdellatif, Osama*; Ayman, Ahmed	12:50 PM
417	Enhancing E-Learning Platforms with AI-Driven Techniques	Ayman, Abdelrhman*	01:10 PM

Session 13 - Bioinformatics & Health Informatics

Session 13

ROOM: C114 TOPIC: Bioinformatics & Health Informatics

START: Jul 13, 2025, 11:30 AM **END:** Jul 13, 2025, 01:30 PM

Chair: Abdelaziz Ahmed
Co-Chair: Mohamed Nagy

PAPER #	TITLE	AUTHORS	START TIME
98	Unreliable Annotation Detection with Similarity Graph in Cervical Cytology	iida, Yasuhiro*; Mrazovac, Bojan; Ishigure, Yasuo; Sato, Ikuma; Niimi, Ayahiko	11:30 AM
105	Multi-Omics-Based Subtyping of Ovarian Cancer Using Deep Learning and SVM Classification	Hozain, Ereeny*	11:50 AM
115	ECG Stress Detection Leveraging Deep Learning Techniques	Abdelbaki, mariem*; Hossam, Hanin; Salman, Omnia; Tamer, Rofida; Alaa, Mennatallah; Mourad, Joumana; Sherif, Sameh	12:10 PM
317	Machine Learning-Based Assessment of Psoriasis Using Real- World Clinical Data from Egyptian Population	Walid Abdelsalam, Farah*; Walid Mostafa, Rawan ; Tarek, Hanan; Shaker, Olfat; Saad, Mohamed	12:30 PM
332	Chaos-Informed 1D CNNs for Gait Dynamics Classification	Eltanani, Shadi*; V. olde Scheper, Tjeerd	12:50 PM
393	Enhancing Sequence-Only PPI Site Predictors: Integrating Attention Modules and Imbalance-Aware Training in a CNN Platform	Saif-Eldeen, Mohamed*; Elsamadony, Mahmoud	01:10 PM

Session 14 - CV

Session 14

ROOM: C112 TOPIC: CV

START: Jul 13, 2025, 11:30 AM **END:** Jul 13, 2025, 01:30 PM

Chair: Shaira Azzab

Co-Chair: Moataz Samy

PAPER #	TITLE	AUTHORS
60	From Artifact to Text: A Novel Deep Learning Approach for Ancient Egyptian Language Processing	El-Taher, Ahmed*; Azazy, Shahira; Mohamed, Ammar
80	Real-Time Violence Detection Across Domains: Evaluating Model Robustness in Varied Surveillance Contexts	Kotb, Mennat Allah*; Aly, Ganna; Elabd Maryam; Khorshid, Mariam; El- Nokrashy, Ahmed; Saad, Noha
131	A Hybrid Multi-scale and Attention mechanism Approach for Pothole Image Classification: A Comparative Study	Abo-Asal, Rawan*; Montasser, Salma; Abdelwahab, Ali; Mohammed, Ammar; Mahfouz, Magi
149	A Novel MRI Image Enhancement Pipeline for Alzheimer's Staging via Grad-Cam-Integrated CNN and KNN Based Patch-Level Attention	Abdulmoneim, Youssef; Saad, Mohamed*; Nassef, Tamer
274	$Lesion_Detection_in_CT_Scans__A_Comparative_Study_of_Traditional__One_Two_Stages__and_Transformer_Based_Models$	El Barbary, Muhamed*; Mohammed, Ammar
294	Optimized Deep Attention Model for Drone-Based Fault Detection in Solar Panels	tarek, shahd*; Hamdi, Ali Hamdi

Session 15 - NLP

Session 15

ROOM: C117 TOPIC: NLP

START: Jul 13, 2025, 11:30 AM **END:** Jul 13, 2025, 01:30 PM

Chair: Sherif Eletriby **Co-Chair:** Wael Gomaa

PAPER #	TITLE	AUTHORS	START TIME
169	Enhancing Legal Document Understanding and Analysis Using Retriever-Augmented Generation (RAG)	Abdelsabour, Mahmoud*; Gomaa, Wael	11:30 AM
222	Uncertainty-Based Aggregation for Enhanced Mistake Identification in Educational Dialogues	Hikal, Baraa*; Nasreldin, Ahmed; Gomaa, Wael; Hamdi, Ali	11:50 AM
349	Arabic Dialect Classification using RNNs, Transformers, and Large Language Models: A Comparative Analysis	Essameldin, Omar*; Osama, Ali; Gomaa, Wael; Elsersy, Wael	12:10 PM
383	Exploring the Power of Multimodal Fusion Strategies for Fake News Detection: A Comparative Analysis of Basic and Advanced Approaches	Saad, Noha*; Gomaa, Wael; wassif, khalid ; Bayomi, Hanaa	12:30 PM
407	Comprehensive Benchmark: Comparing Classical, Recurrent, and Transformer-Based Models for Sentiment Analysis Across Text Length Strata	Alatawi, Ashraf*; Gomaa, Wael	12:50 PM
419	Balancing Efficiency and Accuracy: A Comparative Analysis of LSTM and RoBERTa for Explainable Hate Speech Detection on HateXplain	Medhat, John*; Khaled, Amr; Mohamed, Ahmed; Hassan, Wael	01:10 PM

Session 16 - HCI

Session 16

ROOM: C116 TOPIC: HCI

START: Jul 13, 2025, 02:00 PM **END:** Jul 13, 2025, 04:00 PM

Chair: Seif Eldawlatly
Co-Chair: Mohamed Hossam

PAPER #	TITLE	AUTHORS	START TIME
305	Deep Learning-Based Classification of Anterior Pelvic Tilt Rehabilitation Exercises Using RGB Video and Pose Estimation	Abdelrahim, Abdulrahman*; Ahmed, Youssef; Al- Emrany, Asmaa ; Mohamed, Mohamed; Borham, Mohamed	02:00 PM
354	Classification of Kyphosis Rehabilitation Exercises Using MediaPipe and Hybrid CNN-RNN Architecture	Ghareib, Abdelrahman*; Ghareib, Hamza; Al-Emrany, Asmaa; Hassan, Mai	02:20 PM
399	Vision-Based System for Tennis Stroke and Error Classification	Morsy, Shahd*; Atia, Ayman	02:40 PM
404	Museum Virtual Guide with Deep Learning-Based Hybrid Recommendations for Personalized User Experiences	Alaasar, Sohila*; Mekawey, Hosam	03:00 PM
411	Multimodal Fusion of Wearable and Vision Data: Exploring Early and Model Fusion for Human Activity Understanding	Hussein, Ahmed; Naeim, Saif*; Nageub, George; Zaher, Moamen; Atia, Ayman	03:20 PM
412	Harnessing Deep Learning and CGANs for Accurate Detection of Abnormal Driver Behaviors Using Skeleton Keypoints	Ebrahim, Mazen*; Ramadan, Enjy; Khattab, Hossam; Darwish, Farah; Atia, Ayman	03:40 PM

Session 17 - AI

Session 17

ROOM: C₁₁₁ TOPIC: AI

START: Jul 13, 2025, 02:00 PM **END:** Jul 13, 2025, 04:00 PM

Chair: Amr Sabry
Co-Chair: Ali Somai

PAPER #	TITLE	AUTHORS	START TIME
139	An Enhanced Filter-based approach for Feature Selection	Ammar, Mohammed*; Fekry, Shreen	02:00 PM
327	Predicting Egyptian Stock Trends: A Comparative Framework Using ML, Time Series, and Deep Learning	Elrashidy, Omnia*; Fouad, Khaled; Hussein, Ensaf	02:20 PM
375	Comparative Analysis of Ant Colony Optimization and Google OR-Tools for Solving the Open Capacitated Vehicle Routing Problem in Logistics	Abdelmohsen, Assem Omar*; Omar, Youssef; Solayman, Marwa; Mansour, Hesham	02:40 PM
398	LLaVA-Assisted Prompt Engineering for Liver X-Ray Report Analysis	makram, manal*; Mohammed, ammar	03:00 PM
403	Clustering Trajectories For Rats Movements Using Unsupervised Learning	Farouk, Farouk*	03:20 PM

Session 18 - CV

Session 18

ROOM: C112 TOPIC: CV

START: Jul 13, 2025, 02:00 PM **END:** Jul 13, 2025, 04:00 PM

Chair: Samer IbrahimCo-Chair: Zeinab Taha

PAPER #	TITLE	AUTHORS	START TIME
53	Enhancing Planogram Compliance in Retail Stores through an Image Processing System	UCAL SARI, Irem*; Oncu, Ayse; Karabulut, Duygu BEril	02:00 PM
292	3D Brain Tumor Segmentation using U-Net: Integrating Deep Learning and Mixed Reality for Medical Imaging and Education	Khaled, Amr*; Mounir, Ahmed; Taha, Zeinab	02:20 PM
368	Integrating Channel Fusion and Channel Attention in Night Time Object Detection: An XAI Analysis.	Mitwalli, Ahmed*; Ashour, Mohamed; Amin, Nour	02:40 PM
410	Skeleton-Based Infant Activity Recognition: A Study of Sequence, Graph, and Time-Frequency Representations	Abdelsatar, Sohaila*; Beshir, May; Abd EL-Rahim, Shimaa; Zaher, Moamen; Solayman, Marwa	03:00 PM
420	LSTM-Based Deep Learning and Dual-Sensor Fusion for Monitoring Crystal Methamphetamine Withdrawal Symptoms	Kamel, Omar*; Ahmed, Ali; Atia, Ayman	03:20 PM

Session 19 - ML

Session 19

ROOM: C114 TOPIC: ML

START: Jul 13, 2025, 02:00 PM **END:** Jul 13, 2025, 04:00 PM

Chair: Yehia Elhalwagy

Co-Chair: Yasmin Farouk

PAPER #	TITLE	AUTHORS	START TIME
92	Machine Learning for Used Car Price Prediction in the Egyptian Market	Elkholy, Mohamed*	02:00 PM
150	Comparative Analysis of Traditional Machine Learning and Deep Learning Techniques for Brain Tumor Identification in MRI Data	Sabry, Anas; Abo Alazm, Karim ; Saad, Mohamed*; Nassef, Tamer	02:20 PM
237	Offline Predictive Maintenance for Automotive Engines Using Machine Learning	Gadallah, Abdelellah*; Alaa, Yousef	02:40 PM
291	Automated Diagnosis of Dental Conditions in Panoramic X- Rays with Ensemble Deep Learning Models	Essam, Aly*; Gamal, Mohaned; Atia, Ayman; Hany, Steven	03:00 PM
301	AI Virtual Gym Trainer:Using deep Learning for Real-Time Exercise Guidance and Form Correction	Medhat, John*; Taha, Zeinab	03:20 PM
302	Health-Aware Path Planning Using Environmental Data and Sequential Prediction Models for Asthma Management	ayman, nada*; Hamdi, Ali ; Alaa, Shaimaa	03:40 PM

Session 20 - Online

Session 20

ROOM: C117 TOPIC: Online

START: Jul 13, 2025, 02:00 PM **END:** Jul 13, 2025, 04:00 PM

Chair: Ibrahim Eldesouki
Co-Chair: Farid Ali

PAPER #	TITLE	AUTHORS	START TIME
146	Enhancing Energy Sustainability and Operational Efficiency of Ammonia Production using Machine Learning	Salah Abuelhamd, Mohamed*; Mohammed Ammar, Ammar; Mahmoud El-Gharbawy , Muhammad	02:00 PM
162	An Explainable AI (XAI) Approach to Assessing the Significance of Color Information in Object Detection	Dawoud, Mohamed*; Ashour, Mohamed; Idris, Nour	02:20 PM
281	Predicting Employee Attrition Using Machine Learning Approaches	Meshref, Hossam*	02:40 PM
295	IP2EF: An Open-source Solution for Analyzing and Enhancing the Game Player Engagement	Kassem, Farida; Hassan, Yomna; Aboulhassan, Amal*	03:00 PM
336	Deep Boltzmann Wavelet Neural Network to detect changing in dynamic system	mohamed, hadeer*; Ali, Hussein; kholief, Mohamed; Aburawash, Usama; Kashief, Nermeen	03:20 PM
345	Generating Novel Protein Sequences with Self-Supervised Learning	Girgis, Hani*	03:40 PM
361	Deep Transfer Learning with Ensemble Models for Skin Disease Classification: A Case Study on Melanoma and Eczema	Aldawood, Raya*; Mohammed, Ammar	04:00 PM