



Conference Program

ICMI-2024

**3rd International Conference on Computing and
Machine Intelligence**

Central Michigan University, USA

April 13-14, 2024

Program Summary

In-Person Sessions

All timing follows Eastern Daylight Time, (UTC-4)

Day-1

Venue: Courtyard Hotel

Saturday, April 13, 2024

	Venue Room: Alpha	Venue Room: Gamma
07:00 - 17:00	Registration at Alpha room	
07:00 - 08:00	Breakfast at Alpha room	
08:00 - 08:05	Conference Opening at Alpha room	
08:05 - 08:50	Keynote: Prof. Khalid Elgazzar	
08:50 - 09:40	Women in Computing and Education	
09:40 - 10:00	Coffee Break at Alpha room	
10:00 - 10:30	Keynote: Dr. Rasha Gargrees	In-Person Technical Session – 2
10:30 - 12:00	In-Person Technical Session – 1	
12:00 - 13:00	Lunch at Alpha room	Lunch at Gamma room
13:00 - 13:30	Keynote: Dr. Zag ElSayed	In-Person Technical Session – 4
13:30 - 14:50	In-Person Technical Session – 3	
14:50 - 15:00	Coffee Break at Alpha room	
15:00 - 17:00	Keynote: Dr. Fahmi Khalifa	In-Person Technical Session – 5
	In-Person Technical Session – 6	
19:00 - 21:00	Dinner at Wood Shop Social Restaurant	

DAY-2

Venue: Courtyard Hotel

Sunday, April 14, 2024

	Venue: Room Alpha	Venue: Room Gamma
07:00 - 17:00	Registration at Alpha room	
07:00 - 08:00	Breakfast at Alpha room	
08:00 - 08:50	Keynote: Prof. Alexander Jesser	
08:50 - 09:30	In-Person Technical Session – 7	In-Person Technical Session – 9
09:30 - 10:10	In-Person Technical Session – 8	

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10:10 - 10:30	Coffee Break at Alpha room	
10:30 - 11:00	Keynote: Dr. Linxi Zhang	In-Person Technical Session – 11
11:00 - 12:20	In-Person Technical Session – 10	
12:20 - 13:00	Lunch at Alpha room	Lunch at Gamma room
13:00 - 13:10	Closing at Alpha room	

Online Sessions

All timing follows Eastern Daylight Time, (UTC-4)

DAY-1: Saturday, April 13, 2024

08:05 - 08:50	Keynote: Dr. Mohamed Elhoseiny	
	<u>Google Meet Link</u> For online keynote speeches and sessions below	<u>Google Meet Link</u> For sessions given below
09:00 - 10:30	Online Technical Session – 1	Online Technical Session – 2
10:30 - 12:00	Online Technical Session – 3	Online Technical Session – 4
12:00 - 13:00	Lunch	
13:00 - 15:00	Online Technical Session – 5	Online Technical Session – 6
15:00 - 17:00	Online Technical Session – 7	Online Technical Session – 8

DAY-2: Sunday, April 14, 2024

08:05 - 08:50	Keynote: Mr. Lakshmanan Sethu	
09:00 - 10:30	Online Technical Session – 9	Online Technical Session – 10
10:30 - 12:00	Online Technical Session – 11	Online Technical Session – 12
12:00 - 13:00	Lunch	
13:00 - 15:00	Online Technical Session – 13	Online Technical Session – 14
15:00 - 17:00	Online Technical Session – 15	Online Technical Session – 16

Program Details
In-Person Sessions
DAY-1: Saturday, April 13, 2024

In-Person Technical Session-1 Time: 10:30 - 12:00 Session Chair: Rasha Gargees		Day-1 April 13
Paper ID	Authors / Title	
58	Sethu Mettukulam Jagadeesan; Jordan Leh; Jonathan Gregory; Jesse Eickholt; Daniel Zielinski Evaluating the Effectiveness of a Pipeline to Support Surveillance of Unintended Passage	
85	Stephane Maillard; Mohammad Safayet Khan; Alexander Cramer; Ebru Karanci Sancar Wildfire and Smoke Detection using YOLO-NAS	
98	Rasha Gargees Leveraging Federated Learning for Weather Classification in the Era of Smart	
191	Rasha Gargees Improving Human Activity Recognition through Multisensor Data Fusion Techniques in Wireless Sensor Networks	
In-Person Technical Session-2 Time: 10:00 - 12:00 Session Chair: Nelly Elsayed		Day-1 April 13
24	Geoffrey A Solano A Covid-19 Epidemiological Analysis and Forecasting Dashboard for Hospitals using Time-Series Analysis and Deep Learning	
43	Zhaodong Zhou; Jun Chen Modeling Driver Lane Change Behavior Using Inverse Reinforcement Learning	
55	Mingkang Wu; Umer Siddique; Abhinav Sinha; Yongcan Cao Offline Reinforcement Learning with Failure Under Sparse Reward Environments	
68	Saroja Kanchi; Uma Ramabadran; Smaran Rao Particle Size Analysis using Deep Learning	
94	Patrick Seebold; Murali Kaye; Sangyeon; Chang S Nam Explainable AI-based Shapley Additive Explanations for Remaining Useful Life Prediction using NASA Turbofan Engine Dataset	
99	Joshua P Johnson Evaluating Large Language Model Understanding of Due Process	
In-Person Technical Session - 3 Time: 13:30 - 14:50 Session Chair: Zag Elsayed		Day-1 April 13
122	Nelly Elsayed; Zag ElSayed; Murat Ozer CautionSuicide: A Deep Learning Based Approach for Detecting Suicidal Ideation in Real Time Chatbot Conversation	
138	Jayden Liu; William C Jiang Optimization of Aquaponics System Efficiency Based on Artificial Intelligence Approach	
165	Jaradat, Shadi; Alhadidi, Taqwa ; Ashqar, Huthaifa ; Hossain, Ahmed; Elhenawy, Mohammed M Exploring Traffic Crash Narratives in Jordan Using Text Mining Analytics	

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208	Jaradat, Shadi; Nayak, Richi; Elhenawy, Mohammed M Explainable Language Models For The Identification of Factors Influencing Crash Severity Levels In Imbalanced Dataset
In-Person Technical Session - 4 Time: 13:00 - 14:50 Session Chair: Ahmed Ammar	
Day-1 April 13	
178	Md. Rahatul; Keiichi Horio Identification of human activity by utilizing YOLOv5s approaches
189	Md Shopon; Fariha Iffath; Katie Ovens; Marina Gavrilova A Deep Learning Approach for Semantic Similarity Prediction between Question Pairs using Siamese Network and Word Embedding Techniques
197	Andrew L Zhou A Unique Block-Based 3D U-Net Deep Learning Model for Brain Metastasis MRI Image Segmentation and Classification
118	Eddie Zhang; Evan R Zhang Development of A Multimodal Deep Feature Fusion with Ensemble Learning Architecture for Real-Time Gas Leak Detection
211	Arpita Sarker Enhancing Decentralized Federated Learning with User Feedback Loops: A Novel Approach for Personalized and Adaptive Learning in IoT Environments
In-Person Technical Sessional-5 Time: 15:00 - 17:00 Session Chair: Ezazul Haque Sabuz	
Day-1 April 13	
62	Noaman Mehmood; Kenneth Barner Augmentation, Mixing, and Consistency Regularization for Domain Generalization
95	Victor A Adewopo; Nelly Elsayed; Zag ElSayed; Murat Ozer; Constantinos L. Zekios; Magdy Bayoumi Big Data and Deep Learning in Smart Cities: A Comprehensive Dataset for AI-Driven Traffic Accident Detection and Computer Vision Systems
151	Sk Aziz Ali; Mohammad Sadil Khan; Didier Stricker BRep Boundary and Junction Detection for CAD Reverse Engineering
181	Selvia Nafaa , Karim Ashour, Karim Ashour, Hafsa Essam , Doaa Emad, Mohammed Elhenawy, Huthaifa I. Ashqar, and Taqwa I. Alhadidi Automated Pavement Cracks Detection and Classification Using Deep Learning
201	Selvia Nafaa , Karim Ashour, Karim Ashour, Hafsa Essam , Doaa Emad, Mohammed Elhenawy, Huthaifa I. Ashqar, and Taqwa I. Alhadidi Advancing Roadway Sign Detection with YOLO Models and Transfer Learning
212	Syed Amir Hamza Advancing Industry 4.0 with Real-Time Machine Vision Integration in Cyber-Physical Systems
In-Person Technical Sessional-6 Time: 15:00 - 17:00 Session Chair: Fahmi Khalifa	
Day-1 April 13	
40	Ali S Irshayyid; Jun Chen Highway Merging Control Using Multi-Agent Reinforcement Learning
130	Sunkanmi Oluwadare; Zag ElSayed; Kemi Akanbi; Ebubechukwu Edokwe A Cost-Effective, Smart and Secure Integrated IoT System
141	Sunkanmi Oluwadare; Zag ElSayed; Oluwaseun Adekoya A Brief Review of Unsupervised Learning Algorithms for Zero-Day Attacks in Intrusion Detection Systems
229	Jinho Hahn; Salma Abdelgawad; Boyoung Kim; Chanseok Jeong Convolutional Neural Network for Detection of Fluid-Filled Inclusions in Solids from Measured Elastodynamic Responses

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248	Mirza E Neebraz; Ammar Altaweel; James R Morrison Petri Net Models for the Performance and Design of Persistent Drone Light Shows: An Abridgment
276	Ammar Altaweel; Mirza E Neebraz; James R Morrison Petri Nets and Linear Program for Cyclic Schedules in UAV and Charging Station Systems: An Example

DAY-2: Sunday, April 14, 2024

In-Person Technical Sessional-7 Time: 08:50 - 09:30 Session Chair: Fahmi Khalifa		Day-2 April 14
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63	Emmanuel Kojo Gyamfi; Zag ElSayed; Jess N Kropczynski; Mustapha Awinsongya Yakubu; Nelly Elsayed Agricultural 4.0 Leveraging on Technological Solutions: Study for Smart Farming Sector
202	Suryachandra Naidu Siripuram; Ankit Kammar; Arjun Gupta; Kanthala Maha Vishnu Vardhan Reddy; Javad Baqersad Building Digital Twin for Mechanical Systems using Hybrid Expansion Approach

In-Person Technical Sessional-8 Time: 09:30 - 10:10 Session Chair: Fahmi Khalifa		Day-2 April 14
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69	Samuel C Lobert; Anik Baul; Ahmed Abdelgawad Replication and Advancement of a Functional Electrical Stimulation Device: A Practical Guide
128	Bodaghi, Morteza; Hosseini, Majid; Gottumukkala, Raju A Multimodal Intermediate Fusion Network with Manifold Learning for Stress Detection
167	James C Gu MilliFlex: A Multi-legged Millirobot with pH-Responsive Polymers for Targeted Drug Delivery

In-Person Technical Sessional-9 Time: 08:50 - 10:10 Session Chair: Mahmoud Darwich		Day-2 April 14
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53	Daniel Rosenberger An adversary effort based attack probability model
93	Robert M Kaster; Di Ma Zero Trust enabling Intrusion Detection Systems for SW Defined Vehicles
239	Maisha Maliha; Vaishnavi Satya Sreeja Ankam; Nagamani Rudraraju; Wassnaa Al-Mawee IoT Botnet Threat Detection and Classification: A Binary Class Approach
233	Sharmin Aktar; Abdullah Y Nur Advancing Network Anomaly Detection: An Ensemble Approach Combining Optimized Contractive Autoencoders and K-Means Clustering

In-Person Technical Sessional-10 Time: 11:00 - 12:20 Session Chair: Linxi Zhang		Day-2 April 14
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198	Mohamed Dwedar; Fatih Bayram; Alexander Jesser Dynamic Anomaly Detection in 5G-Connected IoT Devices using Transfer Learning
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230	Jacob Auerbach; Linxi Zhang Navigating Through SSL/TLS Implementation Vulnerabilities in Vehicle-related iOS Apps	
187	Ujunwa F Madububambachu; Rabeea Fatima; Kayla White; Justin Riley; Ahmed Sherif; Kasem Khalil Hardware-Acceleration Based Privacy-Aware Authentication Scheme for Internet of Vehicles	
In-Person Technical Sessional-11 Time: 10:30 - 11:00 Session Chair: Ahmed Ammar		Day-2 April 14
134	Tanner D Patterson; Robert J Hayek; Ahmed Ammar A TDMA Algorithm for Dual-Hop Energy Harvesting Wireless Sensor Networks	
196	Hriba, Enass; Alkhweldi, Marwan; Ammar, Ahmed Connectivity Analysis for mmWave Cellular Networks with Relays	
207	Foster A Yeboah; Mahanthi Ashok; Bukka Keerthi; Dorai Rani; Gaddam Kumar; Kandra Harshitha; Kandukuri Sukeerthi; Lnu Soujanya; Paruchuri Varun; Pillalamarri Vaishnavi; Jones Yeboah; Owusu Nyarko-Boateng Automated Scripting for Real-Time Responses to Suspicious User Actions	
147	Md. Abdus Salam; A S M Ahsanul Sarkar Akib; Mahadir Islam; Md Moin Uddin; shahin K Piyal; Md. Ahsan Habib; Md. Abu Mosa Precision Fish Farming To Mitigate Pond Water Quality Through IoT	

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Program Details

Online Sessions

DAY-1: Saturday, April 13, 2024

Online Technical Session-1 Time: 9:00 - 10:30 Session Chair: Mohamed Shaban	Day-1 April 13
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Paper ID	Authors / Title
3	Rettenmeier, Tobias; Jesser, Alexander Data Augmentation for Entity Resolution: A Comparative Evaluation
10	Yeboah, Jones; Ritika , Dharamkar; Pradnya, Dudhade; Nti, Isaac K Predicting Cyberbullying Behavior in Social Media for Enhancing Online Safety
19	Hedrick, Jacob W; Yeboah, Jones; Nti, Isaac K Predicting the Risk Level of a Loan Based on the Customer's Personal Factors Using Machine Learning Models
20	Tsetse, Anthony K; Yeboah, Jones Predictive Modeling of Energy Requirements in the Design of Buildings: A Comparative Analysis of Machine Learning Algorithms
23	Chen, Max; Wu, Qiang Distributed Classification by Divide and Conquer Approach
26	Todmal, Shantanu; Hazra, Tanmoy Text guided image manipulation using LiT and StyleGAN2

Online Technical Session-2 Time: 9:00 - 10:30 Session Chair: Deepika Kumar	Day-1 April 13
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35	Talaei Khoei, Tala A Safe and Reliable Bayesian Spiking Neural Network in Industrial Control Systems
37	Girard, William; Xu, Haiping; Yan, Donghui Real-Time Evolving Deep Learning Models for Predicting Hydropower Generation
52	Onwujekwe, Gerald; Men, Zibo; Duke, Joseph Individualized Location Prediction Using Autoencoders and Long-Short Term Memory Networks
57	Tiku, Sarvesh Mitigation of User-Prompt Bias in Large Language Models: A Natural Language Processing and Deep Learning Based Framework
59	Carberry, Joshua; Xu, Haiping A Hierarchical Fine-Grained Deep Learning Model for Automated Medical Coding
70	Ho, Pin Hsuan; Jiang, Bing Ru; Lin, Albert Teacher-Free Knowledge Distillation based on Non-Progressive Meta-Learned Simulated Annealing

Online Technical Session - 3 Time: 10:30 - 12:00 Session Chair: Tala Talaei Khoei	Day-1 April 13
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66	Andleeb, Ifrah; Elzein, Almiqdad; Patel, Vaibhav; Alginahi, Yasser Deep Learning-Based Melanoma Detection using Attention Maps
76	Mushsharat, Mostafa; Palit, Rajesh An Intelligent Information Retrieval System Through Natural Language Prompts for Private Database

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77	Rahman, Mostafizur; Saad, Mezbah Uddin; Sadek, Md Jafor; Khaled, Shehenaz; Mithila, Shusria Sharmin Web-Based Multiple Disease Prediction System with Transfer Learning and Healthcare Chatbot
81	Whitten, Paul C An AI Architecture with the Capability to Explain Recognition Results
88	Raychawdhary, Nilanjana Optimizing Multilingual Sentiment Analysis in Low-Resource Languages with Adaptive Pretraining and Strategic Language Selection
89	Raychawdhary, Nilanjana Enhancing Monolingual Sentiment Classification: Pioneering Strategies in Tailored Language Training and Analytical Techniques
Online Technical Session-4 Time: 10:30 - 12:00 Session Chair: Mohamed Shaban	
Day-1 April 13	
92	Abdelkarim, Mohamed; Kamal, Hanan; Shawky, Doaa A Novel ML classifier using Modern Hopfield Neural Networks
96	Xu, Yangjie; Huang, Hui; State, Radu Cropland Quantum Learning: A Hybrid Quantum-Classical Neural Network for Cropland Classification
97	Li, Juliana Artificial Intelligence-Based Detection of Autism Spectrum Disorder Using Linguistic Features
105	Akagic, Amila; Kapo, Medina; Kandić, Elma; Bećirović, Merjem; Kadrić, Nerma Brain Tumor Segmentation of MRI images with U-Net and DeepLabV3+
109	Akanbi, Kemi; Yeboah, Jones; Oluwadare, Sunkanmi ; Nti, Isaac K Predicting Happiness Index Using Machine Learning
111	Yemmanuru, Bhairava Naga Prathibha Kiran; Yeboah, Jones; Nti, Isaac K Customer Credit Risk: Application and Evaluation of Machine Learning and Deep Learning Models
Online Technical Sessional-5 Time: 13:00 15:00 Session Chair: Lakshmanan.S	
Day-1 April 13	
115	Champa, Arifa Islam; Rabbi, Md Fazle; Zibran, Minhaz Curated Datasets and Feature Analysis for Phishing Email Detection with Machine Learning
117	Ashour, Ahmed F.; Fouda, Mostafa M.; Md Fadlullah, Zubair ; Ibrahem, Mohamed Optimized Neural Networks for Diabetes Classification Using Pima Indians Diabetes Database
120	Shao, Claire; Chen, Kayla CIBIP-AI: Development of California Invasive Bird Identification and Prediction Artificial Intelligence System
124	Wang, Zihe Creation of DALT-NET: Deep learning 3D lookup table generation approach to Daltonization for dichromatic vision
127	Lau, Maggie Progress and Research Trends of Artificial Intelligence Incorporation in Protein Structure Prediction
131	Li, Ella Artificial Intelligence Model and Experimental Study of Drug Effects on Planarians' Regeneration
223	Bagchi, Atish; Chandrasekaran, Siva Forecasting of Winding and Oil Temperatures in Power Transformers Using a Hybrid Deep Learning Model with Attention Feedback

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Online Technical Sessional-6 Time: 13:00 15:00 Session Chair: Kasem Khalil		Day-1 April 13
136	Ma, Yuqin Developing the California Aquatic Biotxin Management System to Predict Marine Biotxin Levels in Southern California Coast with Multivariate Time Series Machine Learning	
150	Al-Kerboly, Doreyed Muhammed A Comparative Study of Clustering Algorithms for Profiling Researchers in Universities through Google Scholar	
157	Khan, Shaiq Ahmad; Khan, Faiq Ahmad; Jamil, Akhtar; Hameed, Alaa Ali Interpretable Motor Sound Classification for Enhanced Fault Detection leveraging Explainable AI	
160	Romeo, Jared; Abbass, Mahmoud; Sherif, Ahmed; Khan Mamun, Mohammad Mahbubur Rahman; Elserly, Mohamed; Khalil, Kasem Privacy-Preserving Machine Learning for E-Health Applications: A Survey	
161	Mustafa, Ata; Jamil, Akhtar; Hameed, Alaa Ali Machine learning based techniques for failure detection and prediction in Unmanned Aerial Vehicle	
21	John, Eugene; Sengupta, Prianka Time Series Pattern Matching Technique for Low-Energy Arrhythmia Classification in Implantable Cardiac Devices	
Online Technical Sessional-7 Time: 15:00 - 17:00 Session Chair: Saima Jabeen		Day-1 April 13
166	Abri, Rayan Predicting Earthquakes with Ionospheric Data: A Hybrid Approach Utilizing Deep AutoEncoder and LSTM Networks	
172	Altamimi, Jawaher Suliman An intelligent approach for Speed Bump Detection	
180	Rezaei, Abdolazim; Sookhak, Mehdi; Yazdinejad, Mohsen Credit Card Fraud Detection Using Tree-based Algorithms For Highly Imbalanced Data	
190	Soleimani, Faezeh; Bidi, Saeed; Habibzadeh-Bigdarvish, Omid ; Yu, Xinbao Implementation of Predictive Machine Learning Algorithms on Heated Geothermal Bridge Data	
192	Rahman, Nabila; Arefin, Mahira; Rahman, Sabila; Islam, Md Shamiul; Akter, Usha ; khatun, Tammy Enhancing the accuracy of fruit freshness detection by utilizing transfer learning and customizing convolutional neural network(CNN).	
206	Kuhn, Lisa M; Mire, Allen A Neural Finite Element Control Problem	
155	Zhang, Elizabeth; Wang, Abigail Assessment of Novel Acaricides to Counter European Honeybee Memory Loss and Varroa Destructor Resistance Using Image Recognition and Artificial Intelligence Approach	
90	Jacob T Koch; Olufunsho Falowo; Nathan Elrod What We Know About HTTP/3 and Its Implementation: A Literature Review	
Online Technical Sessional-8 Time: 15:00 - 17:00 Session Chair: Sapna Katiyar		Day-1 April 13
209	Zhou, Caroline Developing a Hybrid Machine Learning System for Parkinson's Disease Detection Using a Combination of Freezing of Gait Video and Inertial Sensor Data	
210	Lo, Matthew BeeMind AI: Development of an Artificial Intelligence-Based System to Assess Honeybee Health, Behavior, and Nutrient Effects	

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213	Aburidi, Mohammed; Marcia, Roummel Adversarial Attack and Training for Graph Convolutional Networks using Focal Loss-Projected Momentum
218	Alawad, Mohammed Optimizing Federated Learning with Heterogeneous Edge Devices
221	Darwich, Mahmoud; Khalil, Kasem; Bayoumi, Magdy Utilizing Swarm Intelligence for Optimized Video Data Distribution in Edge Networks
253	DeJong, Brian; Karadoğan, Ernur Using Machine Learning to Predict Student Success in Undergraduate Engineering Programs
235	Dar, Zaema; Bokhari, Usman Ali; Raheel, Muhammad; Alazawi, Esraa Mohammed; Jamil, Akhtar; Hameed, Alaa Ali Advanced Generative AI Methods for Academic Text Summarization
17	Huinian Wang; Jingyao Wang; Baoping Xiao; Yizhou Jiao; Jinghua Guo Drivable Area and Lane Line Detection Model based on Semantic Segmentation

DAY-2: Sunday, April 14, 2024

Online Technical Sessional-9 Time: 9:00:00 AM - 10:30 Session Chair: Faezeh Soleimani		Day-2 April 14
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242	Abdullah, Fasih; Alazawi, Esraa Mohammed; Jamil, Akhtar; Hameed, Alaa Ali Exploring Deep Learning-based Approaches for Brain Tumor Diagnosis from MRI Images
234	Karadoğan, Ernur Predicting the Weber Fractions for Stiffness Discrimination in Haptic Virtual Environments using Machine Learning
260	Dogru, Hasibe Busra; Kaplan, Ahmet; Zengin, Aydın Tarık Image-Based Nystagmus Analysis in BPPV Disorders: Polar Coordinate System and Template Matching
261	Er, Rezzan Nisa N; Çoğalmış, Kevser Nur Determining Whether a Turkish Text is Produced by Artificial Intelligence or Human
262	Tilki, Sahra; Kaplan, Ahmet Zero-Shot Object Detection and Segmentation: A Focus on Street View Imagery
263	Abdulkhaleq Hussein, Alaa The Role of Artificial Intelligence Applications in Developing the Quality of Teaching: A case study in Iraq

Online Technical Sessional - 10 Time: 9:00:00 AM - 10:30 Session Chair: Enkeleda Lulaj		Day-2 April 14
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264	Sherafgan, Raheimeen; Jamil, Akhtar; Aamir, Fatima; Arbab, Tehreem; Hameed, Alaa Ali; Bhatti, Fazeel Deep Learning-based Semantic Search Techniques for Enhancing Product Matching in E-commerce
71	Chakraborty, Subhobrata; Verma, Abhishek Novel Stereo Visual Odometry Pipeline for Autonomous Robot Navigation on Video Data
65	Paxton, Allison; Verma, Abhishek New Parallel Decision Fusion Models for Improving Multiclass Object Detection in Drone Images
245	Mane, Priyanka IoT Framework for Battlefield Awareness : Implementation of Soldiers Health Integration for Enhanced Location Deployment (SHIELD) System

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18	Schröder, Christian; Boehm, Rene; Lampe, Alexander Comparison of Autoscaling Frameworks for Containerised Machine-Learning-Applications in a Local and Cloud Environment
139	Jiang, William C; Liu, Jayden Developing an Optimized Artificial Intelligence and Internet of Things-based Aquaponics System
Online Technical Sessional - 11 Time: 10:30 - 12:00 Session Chair: Hesham Daoud	
Day-2 April 14	
78	Paxton, Allison; Verma, Abhishek Stacked Generalization Models for Improving Multiclass Object Detection in Drone Images
79	Chakraborty, Subhobrata; Verma, Abhishek; Hartman, Amiel New LiDAR Based SLAM Systems for Real-Time Campus Tour Robot Navigation
80	Kilic, Sedat; Tuceryan, Mihran Crime Detection from Pre-crime Video Analysis with Augmented Activity Information
86	Barua, Saikat; Rahman, Mostafizur; Saad, Mezbah Uddin; Islam, Rafiul; Sadek, Jafor ELMAGIC: Energy-Efficient Lean Model for Reliable Medical Image Generation and Classification using Forward Forward Algorithm
101	Ifty, Tanzina Taher; Shafin, Saleh Ahmed; Shahriar, Shoeb Mohammad; Towhid, Tashfia Explainable Lung Disease Classification from Chest X-Ray Images Utilizing Deep Learning and XAI
103	Akagic, Amila; Buza, Emir; Kecman, Stefani; Saric, Rijad; Lewsey, Mathew G.; Čustović, Edhem; Whelan, James Accelerating Semantic Segmentation Labeling of Time Sequence Data via Assistive Label Generation with Conditional GANs
Online Technical Sessional-12 Time: 10:30 - 12:00 Session Chair: Anastassia Gharib	
Day-2 April 14	
104	Akagic, Amila; Saric, Rijad; Buza, Emir; Kecman, Stefani; Lewsey, Mathew G.; Čustović, Edhem; Whelan, James Rosette Plant Centre Detection and Tracking using YOLO: An Efficient Deep Learning Approach
114	Natha, Sarfaraz ; Arif, Muhammad; Syed, Shahryar Jamil; Jokhio, Fareed Ahmed ; Syed, Muslim Jameel Improving Traffic Surveillance: Deep Learning Approaches for Road Anomaly Detection in Videos
132	Xu, Claire Exploring AI-Based Reciprocal Eye Engagement Training to Enhance Dyadic Behavior in Individuals with Alexithymia
199	Alzyout, Mohammad S.; Al Nounou, Abd Alrahman; Tikkisetty, Yashwanthnaidut; Alawneh, Shadi Performance Analysis of Lidar Data Processing On Multi-Core CPU And GPU Architectures
159	Suresh, Suhas; Verma, Abhishek Stacking and Voting Ensemble Models for Improving Food Image Recognition
173	Chakraborty, Subhobrata; Verma, Abhishek; Hartman, Amiel Evaluation of Visual Inertial Navigation System for Autonomous Robot Tours on Campus
Online Technical Sessional-13 Time: 13:00 - 15:00 Session Chair: Hesham Daoud	
Day-2 April 14	
204	Dev, Antora; Fadlullah, Zubair Md ; Fouda, Mostafa M. Data-Driven Model for Improving MEG Epileptic Spike Detection

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244	Upadhya, Jiblal; Poudel, Khem; Ranganathan, Jaishree Advancing Medical Image Diagnostics through Multi-Modal Fusion: Insights from MIMIC Chest X-Ray Dataset Analysis
182	Shi, Yifan; Wang, Yizhou Development of A Biodegradable Hybrid Inspired Paper Battery Powered By Carbon-Black with Origami Design Applicable For Biomedical Smart Systems
74	Eskander, Marina; Othman, Hisham Anomalous Sound Detection for Slider Machine Using Contrastive Learning Under Domain-Shifted Conditions
170	Nobel, SM Nuruzzaman ; Swapno, S M Masfequier Rahman; Islam, Md Babul; Meena, Dr. V. P.; Benedetto, Francesco Performance Improvements of Machine Learning-Based Crime Prediction, A Case Study in Bangladesh
56	Amsaad, Fathi; Vardhan Baligodugula, Vishnu Analyzing the Parallel Computing Performance of Unsupervised
252	Md.Hazrat H Ali Next-Gen Vehicle Attribute Classification: A Multi-head Deep Learning Approach
231	Tianyi Li; Chengcheng Li Leveraging Transfer Learning from SkimLit to Improve Sentence Classification in NSF Grants and Awards Abstracts
Online Technical Sessional-14 Time: 13:00 - 15:00 Session Chair: Waleed Ead	
Day-2 April 14	
174	Swapno, S M Masfequier Rahman; Nobel, SM Nuruzzaman ; Islam, Md Babul; Haque, Rezaul; Meena, Dr. V. P.; Benedetto, Francesco A Novel Machine Learning Approach for Fast and Efficient Detection of Mango Leaf Diseases
223	Bagchi, Atish; Chandrasekaran, Siva Forecasting of Winding and Oil Temperatures in Power Transformers Using a Hybrid Deep Learning Model with Attention Feedback
41	Elsaadany, Riham A Self-Scaling Dynamic Blockchain Model for IoT
61	Jaggi, Ramneet; Abbas, Muhammad Naveed; Dwivedi, Rahul; Manzoor, Jawad; Asghar, Mamoona Turbulence-driven Autonomous Stock Trading using Deep Reinforcement Learning
177	Mohaidat, Tamador Nadem; Khalil, Kasem Master Forum: Advancements in Perceptron Hardware for Efficient Implementation in Artificial Neural Network
123	Alboqmi, Rami; Jahan, Sharmin; F. Gamble, Rose A Risk Adaptive Access Control Model for the Service Mesh Architecture
184	Vaibhav Pokhriyal; Vignesh Kannan; Dhanesh Mahto; Prajwal V; Vadiraja Acharya Predictive Maintenance for An Industrial Robotic Arm using LoRa Technology
64	Fathi Amsaad Enhancing Anomaly Detection of IoT using Knowledge-Based and Federated Deep Learning
Online Technical Sessional-15 Time: 15:00 - 17:00 Session Chair: Mustafa Al-Asadi	
Day-2 April 14	
102	Pietrini, Rocco ; Paolanti, Marina; Frontoni, Emanuele Bridging Eras: Transforming Fortran Legacies into Python with the Power of Large Language Models
25	Alghamdi, Abdullah; Barsoum, Ayad A Comprehensive Ids to Detect Botnet Attacks Using Machine Learning Techniques

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