



# ICETAI - 2023

## Conference Program

**International Conference on Emerging Trends  
and Applications in Artificial Intelligence**

**September 08-09, 2023**

**Istanbul Medipol University, Turkiye**



**International Conference on Emerging Trends and Applications in Artificial Intelligence**  
**September 08-09, 2023**  
**Istanbul Medipol University, Turkiye**

**DAY-1**  
**Friday, September 08, 2023**  
**Venue: Istanbul Medipol University, Kavacık South Campus**  
*All timings follow Turkish Standard Time (UTC +3)*

**08:30 - 12:30**

**Registration**

**09:30 - 09:40**

**Conference Opening: Welcome speeches by General Chair: Prof. Dr. Gökhan Silahtaroğlu, Medipol University, Turkiye**  
**Guest Speech by Prof. Dr. Muhsin Jaber Jweeg, Al-Farahidi University, Iraq.**

**09:40 - 10:15**

**Keynote: Dr. İlker KÖSE, “How to turn academic studies into industrial Products in coordination with Industry”**

**10:15 - 10:30**

**Coffee Break**

**10:30 - 12:00**

**Technical Session – 1 (In-Person)**

**12:00 - 14:30**

**Jumma Prayers & Lunch Break**

**14:30 - 16:00**

**Technical Session – 2 (In-Person)**

**16:00 - 16:15**

**Coffee Break**

**16:15 - 18:15**

**Technical Session – 3 (Online)**

**18:30 - 22:00**

**Gala Dinner and Bosphorus Yacht Trip**

**DAY-2: Online Sessions**  
**Saturday, September 09, 2023**  
**Venue: Google Meet**  
*All timings follow Turkish Standard Time (UTC +3)*

**08:30 – 10:45**

**Technical Session - 4 (Online)**

**10:45 - 11:15**

**Keynote: Dr. Junaid Shuja, “How to FAST-Track Research?”**

**11:15 – 11:30**

**Break**

**11:30 – 13:15**

**Technical Session - 5 (Online)**

**13:15 – 13:30**

**Break**

**13:30 – 15:15**

**Technical Session – 6 (Online)**

**15:15 – 17:30**

**Technical Session – 7 (Online)**

**17:30 - 17:40**

**Closing**

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**Day 1: September 08, 2023**  
**Technical Session -1**  
**Session Chair: Dr. Osama Dawoud**

ID	Author/Title
20	<b>Mohammad Nagahisarchoghaei, Milad Nagahi, and Harun Pirim</b> Text Mining and Sentimental Analysis to Distinguish Systems Thinkers at Various Levels: A Case Study of COVID-19
21	<b>Daniela Ruiz López, Harun Pirim, and David Grewell</b> ADHD Prediction in Children Through Machine Learning Algorithms
22	<b>Farah Alshanic, Ibrahim Al-Sharif, and Mohammad Abdullah</b> Commonsense Validation and Explanation for Arabic Sentences
23	<b>Naba Bani Yaseen, Mohamad Makahleh, and Malak Abdullah</b> Predicting Students Answers using Data Science: An Experimental Study with Machine Learning
28	<b>Qanita Bani Baker and Moayyad F. Alajlouni</b> Comparative Analysis of Feature Selection Approaches with Metaheuristic Grasshopper Optimization Algorithm
26	<b>Merve Aral, Nada Misk, Gokhan Silahtaroglu</b> Tree Fruit Load Calculation with Image Processing Techniques

**Day 1: September 08, 2023**  
**Technical Session - 2**  
**Session Chair: Dr. Wadhah Zeyad Tareq**

65	<b>Ahmed Kateb Jumaah</b> The Modified Weighted Nonlinear Least Square Method for Indoor Positioning System In Live Status Using Li-Fi Technology
71	<b>Zeynep Adak and Ahmet Çetinkaya</b> Exploring Spreaders in a Retweet Network: A case from the 2023 Kahramanmaraş Earthquake Sequence
6	<b>Hassan Sayyaadi, and Jamal Seddighi</b> Simultaneous Optimization of Ride Comfort and Energy Harvesting through a Regenerative, Active Suspension System Using Genetic Algorithm
14	<b>Hassan Sayyaadi, Mohammad Ali Mokhtari Amir Majdi</b> Artificial Neural Network Model of Nonlinear Behavior of Micro-Ring Gyroscopes
27	<b>Reshmy Krishnan, A. Stephen Sagayaraj, S. Elango, G Kalairasi</b> Comparative Study of Machine Learning Techniques in Water Quality Prediction

**Day 1: September 08, 2023**  
**Technical Session - 3**  
**Session Chair: Dr. Mohammed Alkrunz**

16	<b>Siraj Munir, Stefano Ferretti, and Rauf Ahmed Shams Malick</b> A Framework for Knowledge Representation Integrated with Dynamic Network Analysis
7	<b>Ramanathan A</b> Demystifying Deep Learning Techniques in Knee Implant Identification
18	<b>Omid Orang, Hugo Vinicius Bitencourt, Petrônio Cândido de Lima e Silva, and Frederico Gadelha Guimarães</b> Time Series Forecasting Using Parallel Randomized Fuzzy Cognitive Maps and Reservoir Computing
19	<b>Lutfiye Seda Mut Altin</b> Review of Offensive Language Detection on Social Media: Current Trends and Opportunities
36	<b>Maryam I. Abduljaleel, Muhsin J. Jweeg, Ahmed K. Hassan</b> Computer Modelling of the Gait Cycle patterns for a Drop Foot Patient for the Composite a Polypropylene Ankle-Foot Orthoses
73	<b>Sami El-Ferik, Mustafa Al-Naser, Rached Ben Mansour, Abdullatif Al-Najim, and Abrar Al-Amoudi</b> Intelligent Approach for Fouling Detection in Phase Change Heat Exchanger
34	<b>Maryam I. Abduljaleel, Muhsin J. Jweeg, Ahmed K. Hassan</b> A Numerical Simulation for The Ankle Foot Orthosis Using the Finite Element Technique with The Aid of an Experimental Program
29	<b>Ioannis Symeonidis, Panagiotis Chatzigeorgioua, Christos Antonopoulos, Ignatios Fotiou and Mary Panou</b> Supermarket Shopping with the help of Deep Learning

**Day 2: September 09, 2023**  
**Technical Session - 4**  
**Session Chair: Dr. Mustafa Al-Asadi**

37	<b>Muhammad Al-Barham, Osama Ahmad Alomari, and Ashraf Elnagar</b> Arabic Sign Language Alphabet Classification via Transfer Learning
25	<b>M Moneb Khaled, Muhammad Al-Barham, Osama Ahmad Alomari, and Ashraf Elnagar</b> Arabic News Articles Classification Using Different Word Embeddings
32	<b>Ozge Doguc, Sevvah Beyhan Bilgi, Seval Cagdas, and Nevin Yilmazturk</b> A Decision Support System for Detecting FIP Disease in Cats Based on Machine Learning Methods
35	<b>Mohammed J. Abbas, Muhsin J. Jweeg, Dhia A. Alazawi</b> Numerical and Experimental Simulations of Damage Identification in Carbon/Kevlar Hybrid Fiber-Reinforced Polymer Plates Using the Free Vibration Measurements
55	<b>Fatma Serab Onursal, and Sabri Öz</b> Bridging the Gap Between Technology and Farming in Agri-Tech: A Bibliometric Analysis
38	<b>Gonca Ertürk and Oğuz Akpolat</b> Evaluation of Chemical Data by Clustering Techniques
40	<b>Faruk Takaoğlu, Mustafa Takaoğlu, Taner Dursun, and Tolga Bağcı</b> Novel Quantum Key Distribution Method Based on Blockchain Technology
43	<b>Osama Ahmad Alomari, Muhammad Al-Barham, and Ashraf Elnagar</b> Marine Predatory Algorithm for Feature Selection in Speech Emotion Recognition
41	<b>Khadidja Tair, Lylia Benmessaoud, Saida Boukhedouma</b> Smart parking system based on dynamic and optimal resource allocation

**Day 2: September 09, 2023**  
**Technical Session - 5**  
**Session Chair: Dr. Marwa Ben Ali**

46	<b>Wesam Hameed Asaad, Ragheed Allami, and Yossra Hussain Ali</b> Machine learning algorithms are used for fake review detection
47	<b>Ali Abdulkarem Habib Alrammahi, Farah Abbas Obaid Sari, Bushra Kamil Hilal</b> Development And Research of Models for Optimization Information Flow in Interactive Analysis Big Data in Geographic Information Systems
49	<b>Semih Marangoz, Ahmet Sayar</b> Comparison of Text Summarization Methods in Turkish Texts
52	<b>Muhammad Zeshan Alam, Souso kelowani, and Mohamed Elsaedy</b> Spatio-angular resolution trade-off in face recognition
58	<b>Taisir Alhilo and Akeel Al-Sakaa</b> Eye tracking review: importance , tools , and applications
60	<b>Tabarak Yassin and Omar Ali</b> Using Machine Learning to Control Congestion in SDN: A Review
61	<b>Muna Jaffer Al-Shamdeen, Fawziya Mahmood Ramo</b> Deployment Yolov8 Model for Face Mask Detection based on Amazon web service

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**Day 2: September 09, 2023**

**Technical Session - 6**

**Session Chair: Dr. Mustafa Takaoğlu**

67	<b>Pakize Yigit</b> Modeling Automobile Credit Scoring Using Machine Learning Models
76	<b>Muayad Khaleel Al-Isawi, Hasan M abdulkader</b> Software Defects Detection in Explainable Machine Learning Approach
77	<b>Ashraf Farhan Al-Khafaji, Oguz Karan</b> Explainable AI for Predicting User Behavior in Digital Advertising
79	<b>Shriyash Pandey, Pashupati Baniya, Parma Nand, Alaa Ali Hameed, Bharat Bhushan, Akhtar Jamil</b> CryptStego: Powerful Blend of Cryptography and Steganography for Securing Communications
80	<b>Pashupati Baniya , Atul Agrawal, Parma Nand, Bharat Bhushan, Alaa Ali Hameed, Akhtar Jamil</b> Applications and Associated Challenges in Deployment of Software Defined Networking (SDN)
72	<b>Ruaa Kadhim Khalaf and Noor D. AL-Shakarchy</b> Verifying the Facial Kinship Evidence to Assist Forensic Investigation Based on Deep Neural Networks
69	<b>Mohammed Majid Abdulrazzaq, Mustafa Ali Sahib Al Zakitat, Nehad T. A. Ramaha, Omar Ayad Ismael, Yasir Adil Mukhlif</b> A Proficient Image Steganography Method with Effective Data Hiding and Detection

**Day 2: September 09, 2023**

**Technical Session - 7**

**Session Chair: Dr. Abbas Uğurenver**

62	<b>Abdelrafik Touzen, Sarah Ghardaoui, Hadria Fizazi, Meriem Abidi, Nourredine Boudali, and Belhadj K. Oussama</b> The contribution of the texturing in the processing of optical data
68	<b>Omar Ayad Ismael, Mohammed Majid Abdulrazzaq, Nehad T. A. Ramaha, Mustafa Ali Sahib Al Zakitat, Yasir Adil Mukhlif, Qusay Saihood</b> Exploring Lightweight Blockchain Solutions for Internet of Things: Review
81	<b>Vidushi. Anshika Jain, Ajay Shrivastava, Bharat Bhushan, Alaa Ali Hameed, Akhtar Jamil</b> Combining Text Information and Sentiment Dictionary for Sentiment Analysis on Twitter during COVID
82	<b>Mohsin Imam, Mohd Anas Wajid, Bharat Bhushan, Alaa Ali Hameed, Akhtar Jamil</b> Cyber Threat Analysis and Mitigation in Emerging Information Technology (IT) Trends
70	<b>Yilmaz Dikilitas</b> Performance Analysis for Web Scraping Tools Case Studies on Beautifulsoup, Scrapy, Htmlunit and Jsoup
31	<b>Malak Abdullah, Kefah Alissa, Omaima Alzoubi</b> New User Engagement Prediction Using Machine Learning Algorithms
39	<b>Malak Abdullah, Doaa Obeidat and Heba Nammas</b> Using Ensemble Machine Learning Algorithms to Predict the Scrabble Player's Rating
50	<b>Narzillo Mamatov, Kuanish M Jalelov, and Kuanish Jalelov</b> Formation of a database for the text-to-speech synthesis system in the Karakalpak language
51	<b>Narzillo Mamatov, and Sobirov A Ruzimboy</b> Approaches to solving problems of Markov modeling training in speech recognition