



AICCONF2024

Cognitive Models and Artificial Intelligence Conference

Conference Information

Committees
Accepted Papers

Congress Statistics
Technical Program



May 25-26, 2024
İstanbul-Türkiye

AICCONF2024

Committees

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Technical Program Chair

Turgut Özseven, Tokat Gaziosmanpaşa University, Türkiye

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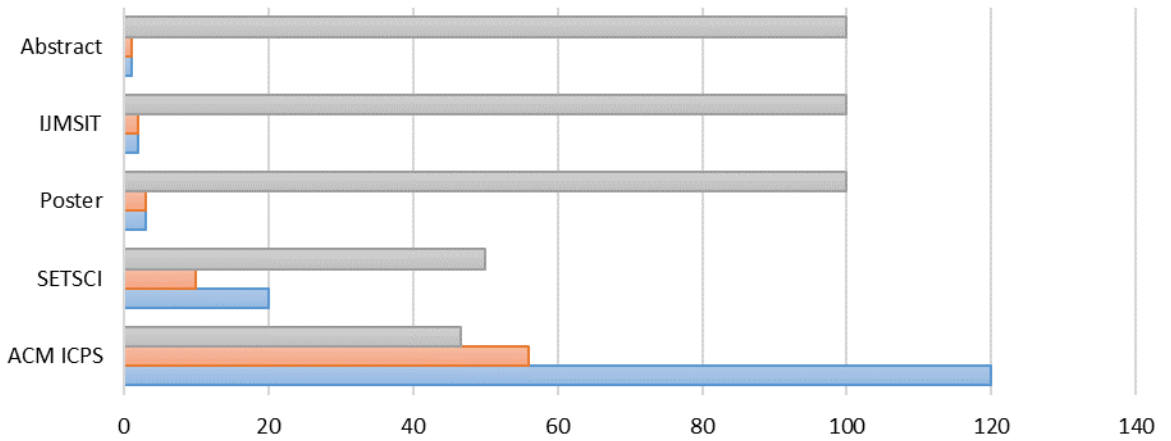
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- » Murat Karakoyun, Necmettin Erbakan University, Türkiye
- » Mustafa Şinasi Ayas, Karadeniz Technical University, Türkiye
- » Ömer Türk, Mardin Artuklu University, Türkiye
- » Ömür Şahin, Erciyes University, Türkiye
- » Rodrigo Pérez Fernández, Technical University of Madrid, Spain
- » Selami Parmaksızoğlu, Antalya Bilim University, Türkiye
- » Selen Ayas, Karadeniz Technical University, Türkiye
- » Sercan Demirci, Ondokuz Mayıs University, Türkiye
- » Sinem Akyol, Fırat University, Türkiye
- » Yasin Kaya, Adana Alparslan Türkeş Science and Technology University, Türkiye
- » Taner Çokyaşar, Tarsus University, Türkiye
- » Tanupriya Choudhury, Graphic Era University, India
- » Tolga Ensari, Arkansas Tech University, USA
- » Tzung-Pei Hong, National University of Kaohsiung, Taiwan

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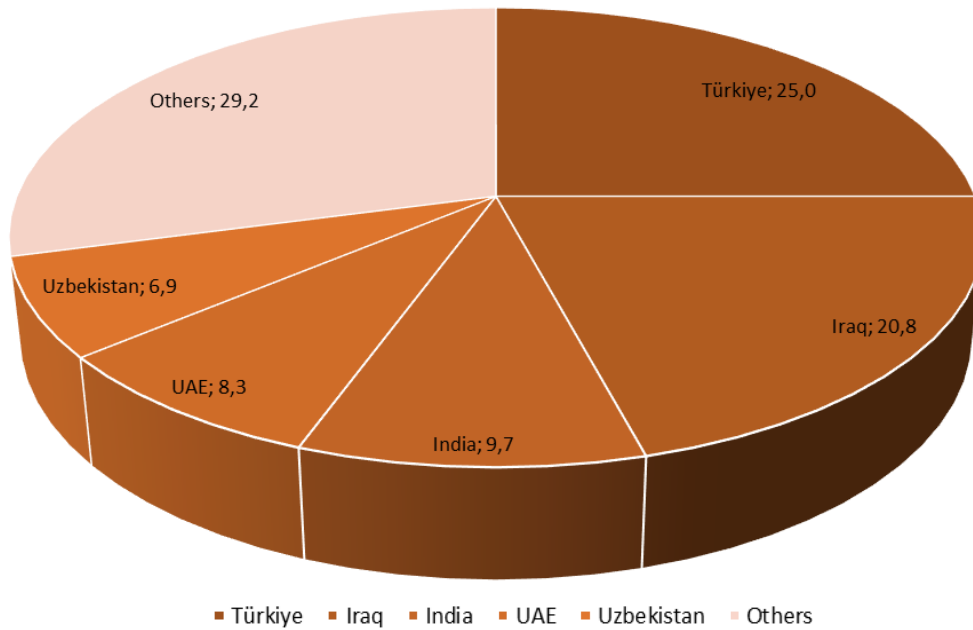
Acceptance Rate (48.97%)



| | ACM ICPS | SETSCI | Poster | IJMSIT | Abstract |
|-----------------------|----------|--------|--------|--------|----------|
| Acceptance Rate (%) | 46,67 | 50,00 | 100,00 | 100,00 | 100,00 |
| Accepted Paper Count | 56 | 10 | 3 | 2 | 1 |
| Submitted Paper Count | 120 | 20 | 3 | 2 | 1 |

■ Acceptance Rate (%)
 ■ Accepted Paper Count
 ■ Submitted Paper Count

Top 5 Countries



Afghanistan (1) - Albania (1) - Algeria (2) - Bangladesh (1) - Bulgaria (3) - Croatia (1) - India (7) - Iran (1) - Iraq (15) - Jordan (1) - North Macedonia (1) - Qatar (1) - Spain (5) - Türkiye (18) - UAE (6) - UK (1) - USA (2) - Uzbekistan (5)

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Accepted Papers

| Title | Author(s) | Prs. Type | Publishing |
|--|---|-----------|------------|
| Aviation & Explainable AI: Making Decision Processes Understandable And Reliable In The Aviation Sector | Ali Berkol, İdil Gökçe Demirtaş | ORAL | SETSCI |
| A Comprehensive Survey of Transfer Learning in Aviation: Methodologies, Applications, and Advancements | Ali Berkol, İdil Gökçe Demirtaş | ORAL | SETSCI |
| Employing Deep Convolutional Neural Networks for Microstructure Image Classification | Zainab Ibrahim, Murtadha Jabbar, Nathera Saleh | ORAL | ACM ICPS |
| Jointly Preserving Subject and Object Anonymity in Nearby Friends Querying for Curious Service Providers | Osman Abul | ORAL | ACM ICPS |
| An investigation into the Exponential T-X Family Distributions to Simulation study | Doaa Khairi Hamad, Feras Sh.M. Batah | ORAL | ACM ICPS |
| Image-Based CAPTCHA Recognition Using Deep Learning Models | Huthaifa Mohammed Kanoosh, Ammar Farooq Abbas, Noora Nazar Kamal, Zainab Mejeed Khadim, Duaa A. Majeed, Sameer Algruri | ORAL | ACM ICPS |
| Adaptive Intrusion Detection System Using Deep Learning for Network Security | Ali Fenjan, Mohammed Thakir Mahmood ALmashhadany, Saadaldeen Rashid Ahmed, Hala Adnan Fadel, Ravi Sekhar, Pritesh Shah, B.S. Veena | ORAL | ACM ICPS |
| Secure Data Transmission in IoT Networks using Machine Learning-based Encryption Techniques | Khudhair Abed Thamer, Saadaldeen Rashid Ahmed, Mohammed Thakir Mahmood ALmashhadany, Sarah G. Abdulqader, Wameedh Abduladheem, Sameer Algruri | ORAL | ACM ICPS |
| Deep Reinforcement Learning for Adaptive Cyber Defense in Network Security. | Atheer Alaa Hammad, Saadaldeen Rashid Ahmed, Mohammad K. Abdul-Hussein, Asst. Lect. Mohammed R. Ahmed, Duaa A. Majeed, Sameer Algruri | ORAL | ACM ICPS |
| A Novel Approach to Malware Detection using Machine Learning and Image Processing | Saadaldeen Rashid Ahmed, Salah.J. Mohamed, Mohammed S. Aljanabi, Sameer Algruri, Duaa A. Majeed, Neesrin Ali Kurdi, Mohammed Al-Sarem, Jamal Fadhil Tawfeq | ORAL | ACM ICPS |
| Deep Learning-Based Anomaly Detection in Network Traffic for Cyber Threat Identification | Luay Ibrahim Khalaf, Associated Prof Baydaa Alhamadani, Omar Ayad Ismael, Ahmed A. Radhi, Saadaldeen Rashid Ahmed, Sameer Algruri | ORAL | ACM ICPS |
| Machine Learning Approaches for Botnet Detection in Network Traffic | Yousif Tareq Salih, Ali Fenjan, Saadaldeen Rashid Ahmed, Hussein Ali, E.N Abdulwahab, Sameer Algruri, Neesrin Ali Kurdi, Mohammed Al-Sarem, Jamal Fadhil Tawfeq | ORAL | ACM ICPS |
| Image Forgery Detection using Convolutional Neural Networks and Blockchain Technology | Luay Ibrahim Khalaf, Mustafa Lateef Fadhil Jumaili, Mohammed Thakir Mahmood ALmashhadany, Mohammed S. Aljanabi, Taif.S. Hasan, Sameer Algruri | ORAL | ACM ICPS |
| Enhanced Network Traffic Classification with Machine Learning Algorithms | Ihab Ahmed Najm, Ahmed Hikmat Saeed, B.A. Ahmad, Saadaldeen Rashid Ahmed, Ravi Sekhar, Pritesh Shah, B.S. Veena | ORAL | ACM ICPS |

| Title | Author(s) | Prs. Type | Publishing |
|---|---|-----------|------------|
| Real-Time Image Denoising Using Deep Learning for Cybersecurity Applications | Nada Mohammed Murad, Sulaiman Yousif Hardan, Saadaldeen Rashid Ahmed, Leena Ali, Ravi Sekhar, Pritesh Shah, B.S. Veena | ORAL | ACM ICPS |
| Strategic Approaches to Eco-Efficient Computing in Institutional Environments | Hafzullah İş | ORAL | ACM ICPS |
| Automatic Extraction of Lighting Conditions from A Real Scene Using Devices Integrated into Extended Reality Viewers and Deep Learning Techniques | Halina Cwierz, Francisco Chavez De La O, Pedro J. Pardo | POSTER | Poster |
| Childhood Obesity Prediction: Algorithms, Datasets, and Taxonomies | Lubana Al Rayes, Heba Ismail, Saad Harous | ORAL | ACM ICPS |
| Real-time SpO2 data capture and integration into a virtual reality environment | Juan Carlos Peguero, Halina Cwierz, Pedro J. Pardo | POSTER | Poster |
| Prioritization of Factors Affecting Customers' E-commerce Platform Selection with Fuzzy Cognitive Mapping | Çağlar Akın, Ferhan Çebi | ORAL | ACM ICPS |
| Assessing the Impact of Virtual Reality on Enhancing Consumer Satisfaction in the Context of Streaming Services: The Case of Netflix | Heba Ismail | ORAL | ACM ICPS |
| Self-Sustaining Buoy System: Harnessing Water Wave Energy for Smart, Wireless Sensing and Data Transmission | Ghassan Hamada Ali Alshmeel, Ahmed Sedeeq Baker Al-Doori, Saadaldeen Rashid Ahmed, Assistant Teacher Zainab A. Abraham, Ali Jassim Ghaffoori, Abadal-Salam T. Hussain | ORAL | ACM ICPS |
| An End-to-End Framework for Multi-Docs Chatbot using Llama2 | Purvika Joshi, Subhangi Sati, Ayan Sar, Sumit Aich, Tanupriya Choudhury, Ketan Kotecha, Turgut Özseven | ORAL | ACM ICPS |
| Optimizing MIMO-OFDM Communication Systems: A Comparative Analysis of LMMSE and LZF Equalizers under Varying Antenna Configurations | Sarah Al-Aanbagi, Hakan Koyuncu | ORAL | ACM ICPS |
| Speed Control of Brushless DC Motor based on Online Neural-PID Controller | Husam Jawad, Hayder Abbood, Diyah Kammel Shary | ORAL | ACM ICPS |
| Underwater image processing based on CNN applications: a review | Ameen Noor | ORAL | ACM ICPS |
| Re-exploring the Kayseri Culture Route by Using Deep Learning for Cultural Heritage Image Classification | Özlem Kevseroğlu, Rifat Kurban | ORAL | ACM ICPS |
| Analyzing Methods for Classification of Electronic Word-of-Mouth: A Review | Gabriel Kanev, Tsvetelina Mladenova, Irena Valova | ORAL | ACM ICPS |
| Edge computing of hyperspectral textures to enhance color fidelity in real-time rendered 3D scenes for virtual reality environments | Pedro J. Pardo, Francisco Chavez De La O, Halina Cwierz | POSTER | Poster |
| Velocity Analysis of the Inverted Slider-Crank Mechanism using Artificial Neural Network Approach | Onur Denizhan, Meng-Sang Chew | ORAL | ACM ICPS |
| A Novel Particle Filter Optimization Algorithm for the solution of Single-objective Numerical Optimization Problems | Milad Rostampour, Ahmet Ünveren, Adnan Acan | ORAL | ACM ICPS |
| Is Artificial Intelligence able to Produce Content Appropriate for Education Level? A Review on ChatGPT and Gemini | Mehmet Fatih Karaca | ORAL | ACM ICPS |
| A Novel End-to-End Framework for Story Generation Using Deep Neural Networks | Ayan Sar, Purvika Joshi, Subhangi Sati, Richa Choudhary, Sumit Aich, Tanupriya Choudhury, Ketan Kotecha, Turgut Özseven | ORAL | ACM ICPS |

| Title | Author(s) | Prs. Type | Publishing |
|---|---|-----------|------------|
| Enhancing Arabic Speaker Identification through Lip Movement Analysis and Deep Representation Learning | Mohammed Imad Ashour, Abbas Saadi Abbas, Saadaldeen Rashid Ahmed, Noor Haydar, Ali Jassim Ghaffoori, Abadal-Salam T. Hussain, Neesrin Ali Kurdi, Mohammed Al-Sarem, Jamal Fadhil Tawfeq | ORAL | ACM ICPS |
| Solving Secluded Path Problem by Heuristics and Local Search | Utku Umur Acikalın, Bugra Caskurlu, Osman Abul | ORAL | ACM ICPS |
| Exploring the Role of Explainable Artificial Intelligence(XAI) in Adaptive learning systems | Ermira Idrizi | ORAL | ACM ICPS |
| Comparative Performance of Advanced NLP Models and LLMs in Multilingual Geo-Entity Detection | Kalin Kopanov, Velizar Varbanov | ORAL | ACM ICPS |
| Advancing Cyber Threat Intelligence through Machine Learning Algorithms | Velizar Varbanov, Kalin Kopanov | ORAL | ACM ICPS |
| Hyperparameter Optimization For A Hybrid CNN-LSTM-based Intrusion Detection System | Pınar Ayyıldız, Oğuzhan Karahan | ORAL | SETSCI |
| Intrusion detection system using Optimized Machine Learning Algorithms for cyberattacks in the Internet of Vehicles (IoV) | Mamadou Korka Diallo, Oğuzhan Karahan | ORAL | SETSCI |
| Data-Driven PPC Optimization: The Impact of Text Mining on Campaign Performance in Dental Tourism | Zlatan Morić, Ljiljana Zakšek, Vedran Dakić | ORAL | ACM ICPS |
| Traffic Light Detection for Self-Driving Cars using the YOLOv8 Architecture | Aditya Gupta, Ayushi Gupta, Gaurav Raj, Ayan Sar, Tanupriya Choudhury, Ketan Kotecha, Turgut Özseven | ORAL | ACM ICPS |
| Comparison of PID and FLC type controller designed for ohmic heating system | Buket Dinç, Köksal Erentürk | ORAL | SETSCI |
| Turkish Music Genre Classification Using Convolutional Neural Network | Shahad Bassam Hazım Hazım, Murat Okkaloğlu | ORAL | ACM ICPS |
| Intelligent Food Recommendation Framework Based on Social Media Behavioral Data | Salma AlMashjari, Heba Ismail | ORAL | ACM ICPS |
| Stock Portfolio Selection with Supervised Classification | Hasan Taş, Esra Karasakal | ORAL | SETSCI |
| A Comprehensive Comparison of Spatial, Screw, Geometric, and Quaternion Approaches in Snake Robot Kinematics | Anar Nasirov, Zafer Bingül | ORAL | ACM ICPS |
| Enhancing Offline Handwritten Signature Identification with Pre-Trained CNN Architectures | Nader Ebrahimpour | ORAL | SETSCI |
| Binding Text, Images, Graphs, and Audio for Music Representation Learning | Abdulrahman Tabaza, Omar Quishawi, Abdelrahman Yaghi, Omar Qawasmeh | ORAL | ACM ICPS |
| Robotik Süreç Otomasyonunda Sık Karşılaşılan Hata Türleri Ve Hata Yönetimi İçin Çözüm Yaklaşımları | İlknur Coşkuner, Fatih Kazova, Muhammed Ahmed Alkan | ORAL | IJMSIT |
| Deep Learning-Based Feature Extraction from Children's Facial Images for Autism Spectrum Disorder Detection | Jaasia Anjum, Naosin Akhter Hia, Anika Waziha, Aurnab Paul, Syeda Jerin Taskin, Kazi A Kalpoma | ORAL | ACM ICPS |
| Operative-predictive control of a reactor plant based on fuzzy models | Doshanova Malika, Ruzibayev Ortiq , Sabirov Sherzod, Begimov Oybek | ORAL | SETSCI |
| Development of Optimal Task Allocation Algorithm for Unmanned Aerial Vehicle Swarms | Hasan Berke Öztürk, Ünalcan Öztürk, Nezih Bora Yavaş, Zafer Bingül | ORAL | ACM ICPS |
| Identity Verification Processes With Voice Biometrics and Artificial Intelligence | Zeynep Örpek, Büşra Tural, Samet Özmen | ORAL | IJMSIT |
| The Role of Artificial Intelligence in Idea Management Systems and Innovation Processes: An Integrative Review | Serena Leka | ORAL | ACM ICPS |
| Analysis of Enhanced Hidden Markov Models for Improved Stock Market Price Forecasting and Prediction | Rishabh Saxena, Adarsh Upadhayay, Gaurav Raj, Tanupriya Choudhury, Ketan Kotecha, Ayan Sar, Turgut Özseven | ORAL | ACM ICPS |

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| Transforming Dermatological Diagnosis: Deep Learning Approaches for Skin Disease Detection in the Digital Era | Ankit Yadav, Vinay Sharma, Gaurav Raj, Tanupriya Choudhury, Ayan Sar, Ketan Kotecha, Turgut Özseven | ORAL | ACM ICPS |
| Assessing the Effect of Model Poisoning Attacks on Federated Learning in Android Malware Detection | Faria Nawshin, Romain Arnal, Devrim Unal, Ponnuthurai Suganthan, Lionel Touseau | ORAL | ACM ICPS |
| Hybridizing Computational Intelligence and Computer Vision Techniques for Efficient Navigation and Marker Detection and Identification by a Swarm of Minirobotic Units | Akemi Galvez, Nureddin Moustafa, Vei S. Chan, Andres Iglesias | ORAL | ACM ICPS |
| Bio-inspired Intrusion Detection System for Internet of Things Networks Security | Yasmine Harbi, Salsabyl Merat, Zibouda Aliouat, Saad Harous | ORAL | ACM ICPS |
| Geometric Modelling of Fractal Structured Objects based on Integration of R-Function And L-System Methods | Shahzoda Anarova, Shakhlo Sadullaeva Azimbayevna, Golib Berdiev, Adhamjon Toxtasinov Ilhomjon Ogli, Maftuna Ismoilova Ilxom Kizi | ORAL | ACM ICPS |
| Numerical Modelling of The System of Doubly Nonlinear Diffusion Equations with Convective Transfer and Damping | Shakhlo Sadullaeva, Shahzoda Anarova, Abdugaffor Khaydarov, Zarnigor Fayzullayeva, Dilorom Nazirova, Nazhiba Mirkhodzhaeva | ORAL | ACM ICPS |
| Enhancing Lane Detection Performance A Comprehensive Analysis of YOLOv2 under Adverse Conditions | Nour Mohamed, Dina Shehada, Ahmed Bouridane | ORAL | ACM ICPS |
| Breast Cancer Segmentation and Detection Using U-net With Ultrasound Dataset | Md. Mijnaur Rahman, Anwar Hossain, Nipu Chakraborty, Md Rezaul Karim Khan | ORAL | ACM ICPS |
| Crop Yield Prediction using Machine Learning Algorithms | Malini Devi Gandamalla, Siri Badhe, Shreya Arukala, Sai Amogha Uppalapati, Anudeepthi Kambalapally | ORAL | SETSCI |
| A Multi-Model Approach to Aspect-Based Sentiment Analysis of Car Reviews | Alweera Khan, Tamkeen Fatima, Tabinda Aman, Tameem Ahmad | ORAL | ACM ICPS |
| The use of ChatGPT to generate Summative Feedback in Programming Assessments that is Consistent, Prompt, without Bias and Scalable | Aidan McGowan, Neil Anderson, Christopher Smith | ORAL | ACM ICPS |
| Mathematical Support for The Study of Three-Layer Rods Under Spatial Loads | Shahzoda Anarova, Davron Shokirov, Otabek Amanov, Oftoboy Amonova | ORAL | ACM ICPS |
| Fractal Measurement of Images Human Brain from MRI | Shahzoda Anarova, Jamoliddin Jabbarov, Iroda Uralova | ORAL | ACM ICPS |
| The Random Forest with Hybrid Principal Component Analysis for detecting Healthy and Insomnia individuals in three A subtypes of Cyclic Alternating Pattern Sleep Study | Nadhim Sayel, Mohammad Fayaz | ORAL | SETSCI |
| A Defect Detection System Based on Image Processing for Plastic Injection Molding Products | Abdullah Çakıroğlu, Murat Gence, Ayberk Nurel, Ersen Yılmaz | ORAL | Abstract |
| CNN-LSTM based Spectrum Sensing in Full-Duplex-aided CR-IoT Networks | Md. Sipon Miah, Md. Mahbubur Rahman, Ming-bo Niu, Ana Garcia Armada | ORAL | ACM ICPS |

AICCONF 2024 Technical Program

| Session 1 (Dolmabahçe Hall) Chair: Rifat Kurban | | Date: May 25, 2024 |
|--|--|-----------------------------------|
| | | Time (GMT+3): 09:00 am - 11:00 am |
| Paper | Author (s) | |
| 39 - Mathematical Support for The Study of Three-Layer Rods Under Spatial Loads | Shahzoda Anarova , Davron Shokirov, Otabek Amanov, Oftoboy Amonova | |
| 56 - Numerical Modelling of The System of Doubly Nonlinear Diffusion Equations with Convective Transfer and Damping | Shakhlo Sadullaeva , Shahzoda Anarova, Abdugaffor Khaydarov, Zarnigor Fayzullayeva, Dilorom Nazirova, Nazhiba Mirkhodzhaeva | |
| 87 - Comparative Performance of Advanced NLP Models and LLMs in Multilingual Geo-Entity Detection | Kalin Kopanov | |
| 88 - Advancing Cyber Threat Intelligence through Machine Learning Algorithms | Velizar Varbanov | |
| 101 - A Comprehensive Comparison of Spatial, Screw, Geometric, and Quaternion Approaches in Snake Robot Kinematics | Anar Nasirov , Zafer Bingül | |
| 97 - Comparison of PID and FLC type controller designed for ohmic heating system | Buket Dinç , Köksal Erentürk | |
| 113 - The Role of Artificial Intelligence in Idea Management Systems and Innovation Processes: An Integrative Review | Serena Leka | |
| 93 - Hyperparameter Optimization For A Hybrid CNN-LSTM-based Intrusion Detection System | Pınar Ayyıldız , Oğuzhan Karahan | |
| 71 - Re-exploring the Kayseri Culture Route by Using Deep Learning for Cultural Heritage Image Classification | Özlem Kevseroğlu, Rifat Kurban | |

| Session 2 (ROOM1) Chair: Oguzhan Pektezel | | Date: May 25, 2024 |
|---|---|-----------------------------------|
| | | Time (GMT+3): 09:00 am - 11:00 am |
| Paper | Author (s) | |
| 76 - A Defect Detection System Based on Image Processing for Plastic Injection Molding Products | Abdullah Çakıroğlu , Murat Gence, Ayberk Nurel, Ersen Yılmaz | |
| 104 - Binding Text, Images, Graphs, and Audio for Music Representation Learning | Abdulrahman Tabaza , Omar Quishawi, Abdelrahman Yaghi, Omar Qawasmeh | |
| 10 - Aviation & Explainable AI: Making Decision Processes Understandable And Reliable In The Aviation Sector | Ali Berkol , İdil Gökçe Demirtaş | |
| 11 - A Comprehensive Survey of Transfer Learning in Aviation: Methodologies, Applications, and Advancements | Ali Berkol , İdil Gökçe Demirtaş | |
| 70 - Underwater image processing based on CNN applications: a review | Ameen Noor | |
| 95 - Hybridizing Computational Intelligence and Computer Vision Techniques for Efficient Navigation and Marker Detection and Identification by a Swarm of Minirobotic Units | Akemi Galvez, Nureddin Moustafa, Vei S. Chan, Andres Iglesias | |
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| 118 - A Novel End-to-End Framework for Story Generation Using Deep Neural Networks | Ayan Sar , Purvika Joshi, Subhangi Sati, Richa Choudhary, Sumit Aich, Tanupriya Choudhury, Ketan Kotecha, Turgut Özseven | |

| Session 3 (Dolmabahçe Hall) Chair: Köksal Erentürk | | Date: May 25, 2024 |
|---|---|-----------------------------------|
| | | Time (GMT+3): 02:00 pm - 04:00 pm |
| Paper | Author (s) | |
| 60 - The use of ChatGPT to generate Summative Feedback in Programming Assessments that is Consistent, Prompt, without Bias and Scalable | Aidan McGowan , Neil Anderson, Christopher Smith | |
| 37 - An investigation into the Exponential T-X Family Distributions to Simulation study | Doaa Khairi Hamad , Feras Sh.M. Batah | |
| 109 - Development of Optimal Task Allocation Algorithm for Unmanned Aerial Vehicle Swarms | Hasan Berke Öztürk , Ünalcan Öztürk, Nezih Bora Yavaş, Zafer Bingül | |
| 94 - Intrusion detection system using Optimized Machine Learning Algorithms for cyberattacks in the Internet of Vehicles (IoV) | Mamadou Korka Diallo , Oğuzhan Karahan | |
| 15 - CNN-LSTM based Spectrum Sensing in Full-Duplex-aided CR-IoT Networks | Md. Sipon Miah , Md. Mahbubur Rahman, Ming-bo Niu, Ana García Armada | |
| 18 - Bio-inspired Intrusion Detection System for Internet of Things Networks Security | Yasmine Harbi, Salsabyl Merat, Zibouda Aliouat, Saad Harous | |
| 22 - Jointly Preserving Subject and Object Anonymity in Nearby Friends Querying for Curious Service Providers | Osman Abul | |
| 83 - Solving Secluded Path Problem by Heuristics and Local Search | Utku Umur Acikalın, Bugra Caskurlu, Osman Abul | |

| Session 4 (ROOM1) | | Time (GMT+3): 02:00 pm - 04:00 pm |
|---|---|-----------------------------------|
| Chair: Oguzhan Pektezel | | |
| Paper | Author (s) | |
| 120 - Traffic Light Detection for Self-Driving Cars using the YOLOv8 architecture | Aditya Gupta, Ayushi Gupta, Gaurav Raj, Ayan Sar , Tanupriya Choudhury, Ketan Kotecha, Turgut Özseven | |
| 119 - Transforming Dermatological Diagnosis: Deep Learning Approaches for Skin Disease Detection in the Digital Era | Ankit Yadav, Vinay Sharma, Gaurav Raj, Tanupriya Choudhury, Ayan Sar , Ketan Kotecha, Turgut Özseven | |
| 64 - Prioritization of Factors Affecting Customers' E-commerce Platform Selection with Fuzzy Cognitive Mapping | Çağlar Akın , Ferhan Çebi | |
| 108 - Operative-predictive control of a reactor plant based on fuzzy models | Doshanova Malika , Ruzibayev Ortiq, Sabirov Sherzod, Begimov Oybek | |
| 44 - Image-Based CAPTCHA Recognition Using Deep Learning Models | Huthaifa Mohammed Kanoosh, Ammar Farooq Abbas, Assist.Lec Noora Nazar Kamal, Zainab Mejeed Khadim, Duaa A. Majeed , Sameer Algruri | |
| 86 - Exploring the Role of Explainable Artificial Intelligence(XAI) in Adaptive learning systems | Ermira Idrizi | |
| 106 - Assessing the Effect of Model Poisoning Attacks on Federated Learning in Android Malware Detection | Faria Nawshin , Romain Arnal, Devrim Unal, Ponnuthurai Suganthan, Lionel Touseau | |
| 72 - Analyzing Methods for Classification of Electronic Word-of-Mouth: A Review | Gabriel Kanev , Tsvetelina Mladenova, Irena Valova | |
| 57 - Strategic Approaches to Eco-Efficient Computing in Institutional Environments | Hafzullah İş | |

| Session 5 (ROOM1) | | Date: May 25, 2024 |
|---|---|-----------------------------------|
| Chair: Oguzhan Pektezel | | Time (GMT+3): 04:30 pm - 06:30 pm |
| Paper | Author (s) | |
| 46 - Secure Data Transmission in IoT Networks using Machine Learning-based Encryption Techniques | Khudhair Abed Thamer, Saadaldeen Rashid Ahmed , Mohammed Thakir Mahmood ALmashhadany, Sarah G. Abdulqader, Wameedh Abduladheem, Sameer Algruri | |
| 41 - Enhancing Lane Detection Performance A Comprehensive Analysis of YOLOv2 under Adverse Conditions | Nour Mohamed, Dina Shehada, Ahmed Bouridane | |
| 47 - Deep Reinforcement Learning for Adaptive Cyber Defense in Network Security. | Atheer Alaa Hammad, Saadaldeen Rashid Ahmed , Mohammad K. Abdul-Hussein, Mohammed R. Ahmed, Duaa A. Majeed, Sameer Algruri | |
| 100 - Stock Portfolio Selection with Supervised Classification | Hasan Tas , Esra Karasakal | |
| 69 - Speed Control of Brushless DC Motor based on Online Neural-PID Controller | Husam Jawad, Hayder Abbood , Diyah Kammel Shary | |
| 65 - Assessing the Impact of Virtual Reality on Enhancing Consumer Satisfaction in the Context of Streaming Services: The Case of Netflix | Heba Ismail | |
| 105 - Robotik Süreç Otomasyonunda Sık Karşılaşılan Hata Türleri Ve Hata Yönetimi İçin Çözüm Yaklaşımları | İlknur Coşkuner , Fatih Kazova, Muhammed Ahmed Alkan | |
| 107 - Deep Learning-Based Feature Extraction from Children's Facial Images for Autism Spectrum Disorder Detection | Jaasia Anjum , Naosin Akhter Hia, Anika Waziha, Kazi A Kalpoma | |
| 67 - Fractal Measurement of Images Human Brain from MRI | Shahzoda Anarova, Jamoliddin Jabbarov , Iroda Uralova | |

| Poster Presentations | | |
|--|---|--|
| Paper | Author (s) | |
| 61 - Automatic Extraction of Lighting Conditions from A Real Scene Using Devices Integrated into Extended Reality Viewers and Deep Learning Techniques | Halina Cwierz, Francisco Chavez De La O, Pedro J. Pardo | |
| 63 - Real-time SpO2 data capture and integration into a virtual reality environment | Juan Carlos Peguero, Halina Cwierz, Pedro J. Pardo | |
| 74 - Edge computing of hyperspectral textures to enhance color fidelity in real-time rendered 3D scenes for virtual reality environments | Pedro J. Pardo, Francisco Chavez De La O, Halina Cwierz | |

| Session 6 (ROOM1) Chair: Oguzhan Pektezel | | Time (GMT+3): 09:30 am - 12:00 pm |
|--|---|-----------------------------------|
| Paper | Author (s) | |
| 62 - Childhood Obesity Prediction: Algorithms, Datasets, and Taxonomies | Lubana Al Rayes , Heba Ismail, Saad Harous | |
| 78 - Is Artificial Intelligence able to Produce Content Appropriate for Education Level? A Review on ChatGPT and Gemini | Mehmet F. Karaca | |
| 77 - A Novel Particle Filter Optimization Algorithm for the solution of Single-objective Numerical Optimization Problems | Milad Rostampour , Ahmet Ünveren, Adnan Acan | |
| 54 - The Random Forest with Hybrid Principal Component Analysis for detecting Healthy and Insomnia individuals in three A subtypes of Cyclic Alternating Pattern Sleep Study | Nadhim Sayel, Mohammad Fayaz | |
| 51 - Image Forgery Detection using Convolutional Neural Networks and Blockchain Technology | Luay Ibrahim Khalaf, Mustafa Lateef Fadhil Jumaili, Mohammed Thakir Mahmood ALmashhadany , Mohammed S. Aljanabi, Taif.S. Hasan, Sameer Algruri | |
| 103 - Enhancing Offline Handwritten Signature Identification with Pre-Trained CNN Architectures | Nader Ebrahimpour | |
| 75 - Velocity Analysis of the Inverted Slider-Crank Mechanism using Artificial Neural Network Approach | Onur Denizhan , Meng-Sang Chew | |
| 115 - An End-to-End Framework for Multi-Docs Chatbot using Llama2 | Purvika Joshi , Subhangi Sati, Ayan Sar, Sumit Aich, Tanupriya Choudhury, Ketan Kotecha, Turgut Özseven | |
| 45 - Adaptive Intrusion Detection System Using Deep Learning for Network Security | Ali Fenjan, Mohammed Thakir Mahmood ALmashhadany, Saadaldeen Rashid Ahmed , Hala Adnan Fadel, Ravi Sekhar, Pritesh Shah, B.S. Veena | |
| 8 - Crop Yield Prediction using Machine Learning Algorithms | Malini Devi Gandamalla, Siri Badhe , Shreya Arukala, Sai Amogha Uppalapati, Anudeepthi Kambalapally | |

| Session 7 (ROOM1) Chair: Oguzhan Pektezel | | Date: May 26, 2024 Time (GMT+3): 01:00 pm - 3:00 pm |
|--|--|--|
| Paper | Author (s) | |
| 99 - Intelligent Food Recommendation Framework Based on Social Media Behavioral Data | Salma AlMashjari , Heba Ismail | |
| 68 - Optimizing MIMO-OFDM Communication Systems: A Comparative Analysis of LMMSE and LZF Equalizers under Varying Antenna Configurations | Sarah Al-Aanbagi , Hakan Koyuncu | |
| 98 - Turkish Music Genre Classification Using Convolutional Neural Network | Shahad Bassam Hazim Hazim , Murat Okkaloğlu | |
| 43 - Geometric Modelling of Fractal Structured Objects based on Integration of R-Function And L-System Methods | Shahzoda Anarova , Shakhlo Sadullaeva Azimbayevna, Golib Berdiev, Adhamjon Toxtasinov Ilhomjon Ogli, Maftuna Ismoilova Ilxom Kizi | |
| 9 - A Multi-Model Approach to Aspect-Based Sentiment Analysis of Car Reviews | Alweera Khan, Tamkeen Fatima, Tabinda Aman , Tameem Ahmad | |
| 16 - Employing Deep Convolutional Neural Networks for Microstructure Image Classification | Zainab Ibrahim , Murtadha Jabbar, Nathera Saleh | |
| 110 - Identity Verification Processes With Voice Biometrics and Artificial Intelligence | Zeynep Örpək , Büşra Tural, Samet Özmen | |
| 96 - Data-Driven PPC Optimization: The Impact of Text Mining on Campaign Performance in Dental Tourism | Zlatan Morić , Ljiljana Zakšek, Vedran Dakić | |

| Session 8 (ROOM1) Chair: Saadaldeen Rashid Ahmed | | Date: May 26, 2024 Time (GMT+3): 03:30 pm - 6:00 pm |
|--|---|--|
| Paper | Author (s) | |
| 48 - A Novel Approach to Malware Detection using Machine Learning and Image Processing | Saadaldeen Rashid Ahmed , Salah.J. Mohamed, Mohammed S. Aljanabi, Sameer Algruri, Duaa A. Majeed, Neesrin Ali Kurdi, Mohammed Al-Sarem, Jamal Fadhil Tawfeq | |
| 49 - Deep Learning-Based Anomaly Detection in Network Traffic for Cyber Threat Identification | Luay Ibrahim Khalaf, Baydaa Alhamadani, Omar Ayad Ismael, Ahmed A. Radhi, Saadaldeen Rashid Ahmed , Sameer Algruri | |
| 50 - Machine Learning Approaches for Botnet Detection in Network Traffic | Yousif Tareq Salih, Ali Fenjan, Saadaldeen Rashid Ahmed, Hussein Ali, E.N Abdulwahab, Sameer Algruri, Neesrin Ali Kurdi, Mohammed Al-Sarem, Jamal Fadhil Tawfeq | |
| 52 - Enhanced Network Traffic Classification with Machine Learning Algorithms | Ihab Ahmed Najm, Ahmed Hikmat Saeed, B.A. Ahmad, Saadaldeen Rashid Ahmed, Ravi Sekhar, Pritesh Shah , B.S. Veena | |
| 53 - Real-Time Image Denoising Using Deep Learning for Cybersecurity Applications | Nada Mohammed Murad, Sulaiman Yousif Hardan , Saadaldeen Rashid Ahmed, Leena Ali, Ravi Sekhar, Pritesh Shah, B.S. Veena | |
| 66 - Self-Sustaining Buoy System: Harnessing Water Wave Energy for Smart, Wireless Sensing and Data Transmission | Ghassan Hamada Ali Alshmeel , Ahmed Sedeeq Baker Al-Doori, Saadaldeen Rashid Ahmed, Assistant Teacher Zainab A. Abraham, Ali Jassim Ghaffoori, Abadal-Salam T. Hussain | |
| 82 - Enhancing Arabic Speaker Identification through Lip Movement Analysis and Deep Representation Learning | Mohammed Imad Ashour, Abbas Saadi Abbas, Saadaldeen Rashid Ahmed, Noor Haydar, Ali Jassim Ghaffoori, Abadal-Salam T. Hussain , Neesrin Ali Kurdi, Mohammed Al-Sarem, Jamal Fadhil Tawfeq | |