














6th International Congress on Human- Computer Interaction, Optimization and Robotic Applications

CONGRESS PROGRAM









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May 23-25, 2024 - Istanbul, Türkiye

May 24, 2024

Time (GMT+3)	9:00 am - 11:00 am	Session 1  Dolmabahçe Hall	Session 2  Galata Hall	Session 3  Haliç Hall
	11:00 am - 11:15 am	Coffee Break		
	11:15 am - 11:45 pm	SEMINAR <i>Current Problems and Solutions Suggestions Regarding Academic Ethics</i> Prof. Dr. Fahri APAYDIN  Dolmabahçe Hall		
	11:45 am - 12:15 pm	Keynote Speaker "Enhancing Digital Twins with Artificial Intelligence" Prof. Dr. Bedir TEKINERDOGAN  Dolmabahçe Hall		
	1:30 pm - 3:30 pm	Session 4  Dolmabahçe Hall	Session 5  Galata Hall	Session 6  Haliç Hall
	3:30 pm - 4:00 pm	Coffee Break		
	4:00 pm - 6:00 pm	Session 7  Dolmabahçe Hall	Session 8  Galata Hall	Session 9  Haliç Hall

May 25, 2024

Time (GMT+3)	9:00 am - 11:00 am	Session 10  Galata Hall	Session 11  Haliç Hall
	11:00 am - 12:00 pm	Keynote Speaker "Fractional-Order PID Control by 3D Plots" Prof. Dr. Mehmet E. KOKSAL  Dolmabahçe Hall	
		Keynote Speaker "Wireless Communications: From Optimization to Learning" Dr. Ahmet M. ELBIR  Dolmabahçe Hall	
	1:30 pm - 3:30 pm	Session 12  Galata Hall	Session 13  Haliç Hall
	3:30 pm - 4:00 pm	Coffee Break	
4:00 pm - 6:00 pm	Session 14  Galata Hall	Session 15  Haliç Hall	

Session 1. (Dolmabahçe Hall)	
Chair: Turgut Özseven	
Date: May 24, 2024	
Time (GMT+3): 09:00 am - 11:00 am	
Paper	Author (s)
122 - Data Generation with ChatGpt: A Review on Sentiment Analysis Classification	Ahmet Tuğrul Bayrak, Sultan Ceren Öner , Emre Begen, Melike Demirdağ, İsmail Utku Sayan, Alper Kaplan
163 - Green Supplier Selection Problem for Fast Food Industry	Sultan Ceren Öner , Ahmet Tuğrul Bayrak
208 - SkelCap: Automated Generation of Descriptive Text from Skeleton Keypoint Sequences	Ali Emre Keskin , Hacer Yalim Keles
211 - Automated Optical Inspection for Quality Control in PCBA assembly lines: a case study for Point of Sale Devices Production Lines	Kerem Aras, Saad Saif , Alessandro Giuseppe, Vedat Coskun
207 - Lazer Kesim Makinaları için Makina Durumu İzleme Cihazı	Gökkan Yılmaz , Murat Reis
291 - A Systematic Approach to Measure Usability and Security Trade-off	Inci Karamahmutoglu , Mehmet Gokturk
228 - Revealing the Effects of Normalization in Breast Cancer Mitotic Cells Detection	Muharremcan Gülye , Feriştah Dalkılıç, Zerrin Işık

Session 2. (Galata Hall)	
Chair: M. Emir Köksal	
Date: May 24, 2024	
Time (GMT+3): 09:00 am - 11:00 am	
Paper	Author (s)
95 - Design and Development of an Exoskeleton System using a 3-UPU Spherical Parallel Manipulator for Rehabilitation in Stroke Patients	Tony Punnoose Valayil , Tanio K. Tanev
277 - State-of-the-Art Review of Life Insurtech: Machine learning for underwriting decisions and a Shift Toward Data-Driven, Society-oriented Environment	Arina Kharlamova , Giancarlo Succi, Artem Kruglov
81 - Key Fob Replay Attacks on Personal Vehicles: Vulnerabilities and Mitigation Strategies	Zlatan Moric , Ana Kapulica, Vedran Dakic, Robert Petrunic
192 - Utilizing fMRI and Deep Learning for the Detection of Major Depressive Disorder: A MobileNet V2 Approach	Atousa Hatami , Arian Ranjbar Varandi, Shahla Azizi
147 - Swarm Intelligence Approach for Controller Design Optimization Applied to Chaotic Synchronization of Continuous Dynamical Systems	Akemi Galvez, Andres Iglesias
127 - International Search And Rescue Teams In Kahramanmaraş Earthquake	Kian Farajkhah , Elvin Çoban
211 - Automated Optical Inspection for Quality Control in PCBA assembly lines: a case study for Point of Sale Devices Production Lines	Kerem Aras, Saad Saif , Alessandro Giuseppe, Vedat Coskun
117 - Trapezoidal fuzzy control for locomotion of bipedal robot on uneven environments	Rami AL-Jarrah , Hitham Tlilan

Session 3. (Haliç Hall)	
Chair: Safak Kayikci	
Date: May 24, 2024	
Time (GMT+3): 09:00 am - 11:00 am	
Paper	Author (s)
57 - User-Centered Design and Validation of mHealth App for Providing Vital Assistance and Emergency Healthcare Support in Bangladesh	Abu Musa Sakib, Sanzar Adnan Alam , Ashraful Islam
91 - GAN-Augmented Breast Cancer Classification with Histogram-Based Gradient Boosting	Safak Kayikci , Taghi Khoshgoftaar
92 An Approach Towards Generalization of Automotive Camera Sensor Data using Deep Learning	Goutham Bharadwaj Ramesh , Mohamad Chamas, Aoli Wang, Sunil Kumar Raghuraman, Eric Sax
308 - Lossless Medical Image Compression using 1D/2D Linear Polynomial Coding Techniques	Ghadah K. AL-Khafaji , Uhood S. Al-Hassani, Rafea I. Yahya
160 - Robotic Monitoring Enhancement with Deep Learning and Conformal Prediction for Indoor Anomaly Detection in Emergency Situations	Arya Saboury , Mustafa Kemal Uyguroglu
82 - Transfer Function Matrix Derivation for Improved Control and Stability in HVAC Systems Performance	Basim Touqan , Alaa Abdul-Ameer
137 - FPGARLab: Leveraging FPGA Design and Verification Using Intelligent Cyber Physical System Based Collaborative Remote Laboratory	Rashed Al Amin , Veit Wiese, Mohammad Musfiqur Rahman, Sven Jacobs, Steffen Jäschke, Roman Obermaisser

SEMINAR**11:15 am - 11:45 pm***Current Problems and Solutions Suggestions Regarding Academic Ethics***Prof. Dr. Fahri APAYDIN****📍 Dolmabahçe Hall****Keynote Speaker****11:45 am - 12:15 pm***"Enhancing Digital Twins with Artificial Intelligence"***Prof. Dr. Bedir TEKINERDOGAN****📍 Dolmabahçe Hall**

Session 4. (Dolmabahçe Hall)		Date: May 24, 2024
Chair: Köksal Erentürk		Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)	
165 - SU2-Net: Uzaktan Algılama Görüntülerinde Değişiklik Tespiti için Siyam Tabanlı U2-Net	Beyza Nur Nakkaş, Çağrı Şahin	
59 - Fuzzy Logic-Based Safe Speed Calculation Method for Maritime Autonomous Surface Ship	Burak Alptekin, Nihan Kahraman	
176 - Object Detection in Infrared Images with Different Spectra	Yusuf Furkan Yücesoy, Çağrı Şahin	
108 - Optimization Under Uncertainty Using Physics-Based Label-Free Machine Learning	Xiaoping Du	
225 - A Mapping and Monitoring Platform for Mobile Robots	Murat Aydemir, Mina Khoshrangbaf, Vahid Khalilpour Akram, Moharram Challenger	
197 - Research on Surface Electropotential Signal and Vibration Measurements of Plants for Long-Term Remote Monitoring	Yusuf Tarık Akyüz, İsmail Kaya, Mustafa Ulutaş, Yeşim Er, Zübeyir Durğut	
96 - IoT Monitoring System -based enabling Intelligent power Transformer using Raspberry Pi Technology	Zahraa Talib, Zainab Faris , Laith Abdul-Rahaim	
135 - Game Theory Based Decentralized Multi-Task Allocation Algorithm for Multi-Agent Systems	Nezih Bora Yavaş, Hasan Berke Öztürk, Ünalcan Öztürk, Zafer Bingül	
294 - Fuzzy Logic Supported Tracking of Elderly People Moving Away From Living Space	Oğuz Gora, Hakan Dalkılıç	
Session 5. (Galata Hall)		Date: May 24, 2024
Chair: M. Emir Köksal		Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)	
250 - Development of an Open Experimental Apparatus for the Comparison of Haptic Teleoperation Control Systems	Paolo Righettini, Roberto Strada, Filippo Cortinovis	
264 - Load Simulator Design for the Experimental Validation of a High Energy Saving Methodology in the Automation System of Hydraulic Presses	Paolo Righettini, Roberto Strada, Filippo Cortinovis	
158 - Development of a Calibration-Free Brain-Computer Interface Utilizing Common Spatial Patterns and Artificial Neural Networks for EEG Signal Analysis	Korhan Cengiz, Shreyas J, Udayaprasad P K, Gururaj H L , Dilip Kumar S M	
123 - Navigating Mobile Robots in 2D Environments using Model Predictive Control	Mohammed Rabeaa Hashim Al-Dahhan , Mahmood Abdulrazzaq Alsaadi, Ruqayah R. Al-Dahhan, Salah A. Aliesawi	
24 - Kinect Station: Using Microsoft Kinect v2 as a Total Station Theodolite for Distance and Angle Determination in a 3D Cartesian Environment	Amin Amini	
60 - Deep learning vs. conventional techniques for processing and classifying EEG brain disorders: a survey	Dina Aboelzahab , Nawal Zaher, AbdelHamid Soliman, Claude Chibelushi	
94 - Exploring the Effect of Kernel Depth in Compact Keyword Spotting Models	Prakash Dhungana, Sayed Ahmad Salehi	
65 - FUNSC: A GUI Software for Stochastic Computing	Jackson Huse, Sayed Ahmad Salehi	

Session 6. (Haliç Hall)		Date: May 24, 2024
Chair: Ebubekir Yasar		Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)	
220 - E-TSL: A Continuous Educational Turkish Sign Language Dataset with Baseline Methods	Şükrü Öztürk , Hacer Yalim Keles	
221 - Enhancing Agile Effort Estimation: An NLP Approach for Software Requirements Analysis	Tunahan Catak , Pinar Onay Durdu, Sevinc Ilhan Omurca	
134 - Energy Optimization in Metro Line by Using Regenerative Energy	Unsal Gok , Belgin Turkey, Cenk Andic, Esra Aydın	
124 - Security Mechanisms in Hybrid Environments: The Case of Token Online Application	Busra Ozdenizci Kose, Vedat Coskun , Mustafa Ozan Capa, Hakan Uluoz	
125 - An Innovative Approach to Virtual Private Networks for Enhancing Digital Security and Accessibility	Busra Ozdenizci Kose, Vedat Coskun , Arslan Coskun, Senol Yaya	
278 - Green Wave Control Strategy for Optimal Energy Consumption by Model Predictive Control in Electric Vehicles	Furkan Özkan , Mehmet Selçuk Arslan, Hatice Mercan	
104 - Artificial Intelligence and Keystroke Dynamics: The Mysterious World of Personal Signatures	Büşra Tural, Zeynep Örpek , Samet Özmen	
105 - Evaluation and Results of Research Ranking Platform for Academic Staff and Universities in The Republic of North Macedonia	Arbnor Rushiti, Artan Luma, Ylber Januzaj , Azir Aliu, Halil Snopçe, Mitko Trpkoski, Anis Sefidanoski	

Coffee Break

Session 7. (Dolmabahçe Hall)		Date: May 24, 2024
Chair: Ebubekir Yasar		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	
63 - Single Object Tracking in Satellite Videos Through Deep Learning and Motion Detection Techniques	Israa Hayder , Fattah Alizadeh	
180 - Parallel Kinematics Manipulators for Pick and Place of Moving Objects Using 3D Perception: Development of a Test Bench	Paolo Righettini, Roberto Strada, Jasmine Santinelli , Filippo Cortinovis, Federico Tabaldi	
111 - Comparative Study of Induction Switched Reluctance Machine and Induction Machine	Mohammadali Abbasian	
266 - Application of a New Management and Control Methodology for High Energy Saving in Hydraulic Bending Presses	Paolo Righettini, Roberto Strada, Filippo Cortinovis	
116 - Integrating Mental Workload Management in advanced Human-Machine Interaction: the development process of the Proof-Of-Concept to refine the concept.	Maria Elena Nenni	
159 - Experimental Testing of Received Signal Strength in Indoor Positioning System	Matúš Madleňák , Erika Skýpalová	
235 - Balancing Game Satisfaction and Resource Efficiency: LLM and Pursuit Learning Automata for NPC Dialogues	Mohammed Mahdi Jahangiri , Parisa Rahmani	
304 - Computational Intelligence in Business Management: Strategies for Innovation and Optimization	Saadaldeen Rashid Ahmed, Ali Jabbar Hussein, Shaymaa Dheeb, Bourair Al-Attar, Duaa A. Majeed , Abadal-Salam T. Hussain, Jamal Fadhil Tawfeq	

Session 8. (Galata Hall)	Date: May 24, 2024
Chair: Saadaldeen Rashid Ahmed	Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)
68 - Deep learning detection approach for speech impairment children in Parkinson's disease	Ihab Ahmed Najm, Omar Gheni Abdulateef, Lucturer Doctor Ahmed Hussein Ali, Saadaldeen Rashid Ahmed , Mohsin. A. Ahmed, Sameer Algburi
40 - Gray Wolf Algorithm Optimization of Automatic Generation Control for Deregulated Multi-Area Power System	Mohammed Qasim Taha , Issa Cheikh Elhassene, Bamba El Heiba
130 - Evaluating Machine Learning Algorithms for Early Detection of GDM	Osamah Al-Azzawi , Sefer Kurnaz
295 - Empowering the Solar Street Lighting Revolution: Developing a Smart-Relay-Controlled Photovoltaic System for Enhanced Efficiency, Sustainability, and Operational Control	Saadaldeen Rashid Ahmed, Basim Galeb Mejbhel , Talib Hussein Khamil, Ahmed Dheyaa Radhia, Azhar. R AL-Ani, Abadal-Salam T. Hussain, Duaa A. Majeed, Jamal Fadhil Tawfeq
55 - Deep fake Image Detection Based on Deep Learning Using a Hybrid CNN-LSTM with Machine Learning Architectures as Classifier	Omar Alfarouk Hadi Hasan Al-Dulaimi , Sefer Kurnaz
98 - Research of Technologies and Methods of Web Application Protection in the Infrastructure of a Higher Education Institution with the Assistance of Specialized Systems	Serhii Dunayev , Tetiana Milevska, Natalia Voropay, Pierre Murr, Vladyslav Khvostenko, Yelyzaveta Sevriukova
99 - Method for Reducing the Frequency Spectrum Overlaying Error in Digital Narrow-Band Filtration	Serhii Herasymov, Viacheslav Soroka, Stanislav Milevskiy , Olha Korol, Iryna Aksonova, Vadym Stetsenko
133 - Abel-Poisson Partial Sums in Signal Theory	Oleg Barabash, Andrii Musienko, Andriy Makarchuk , Ivanna Salanda, Dmytro Obidin, Oleg Ilin
101 - Entropy Method for Assessing the Strength of Encryption Algorithms	Serhii Yevseiev, Stanislav Milevskiy , Marharyta Melnyk, Ivan Opirskyy, Marta Stakhiv, Roman Stakhiv

Session 9. (Haliç Hall)	Date: May 24, 2024
Chair: Turgut Ozseven	Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)
296 - Enhancing Renewable Energy Integration: A Comprehensive Study and Control Analysis of Smart-Grid Inverter Systems Utilizing Solar Photovoltaics for Sustainable Electricity Generation	Basim Galeb Mejbhel, Saadaldeen Rashid Ahmed, Sabah Jebur AlJanabi, Ahmed Dheyaa Radhia, Noor Haydar Shaker , Abadal-Salam T. Hussain, Duaa A. Majeed, Jamal Fadhil Tawfeq
297 - Enhanced Transformer Overload Power Protection with Small Transient Period Differential Relay Control	Saadaldeen Rashid Ahmed, Basim Galeb Mejbhel, Adel A. Abbas, Ahmed Dheyaa Radhia, Ola Farooq Jelwy, Abadal-Salam T. Hussain , Duaa A. Majeed, Jamal Fadhil Tawfeq
138 - Duration-Based Investigation of User Content Choices in the Exit of Filter Bubbles	Rabiatu Bunza
298 - Designing a Three-Phase Current Relay Protection System for Small Transient Periods of Power Fluctuations with Enhanced Control	Basim Galeb Mejbhel, Saadaldeen Rashid Ahmed, Jamal Saleem Abdurraheem Alibadi, Ahmed Dheyaa Radhia, Mohammed Saad Fadhil, Abadal-Salam T. Hussain , Duaa A. Majeed, Jamal Fadhil Tawfeq
300 - IOT-Enabled Intelligent Drones For Leak Detection With Using Simple Text Oriented Messaging Protocol (STOMP)	Farah Amer Abdulazeez , Saadaldeen Rashid Ahmed, Basim Galeb Mejbhel, Marwa Ibrahim, Bourair Al-Attar, Zainab A. Ibrahim, Abadal-Salam T. Hussain
73 - Harmonic Operators in Mathematical Models of Sources of Detection of Unauthorized Access to Information	Oleksandr Laptiev , Valentyn Sobchuk, Anton Ryzhov, Andrii Sobchuk, Serhii Kopytko, German Shuklin
88 - Web Application to predict Skin Disease: An Approach Using Deep Learning Algorithm	Thayalan Eelanila , Arumugavel Ayingaran, Ganeshan Sharujan, Makenthiran Dalaxshan, Harinda Fernando, Kaushalya Rajapakse
305 - Deep Learning for Customer Relationship Management in E-commerce	Saadaldeen Rashid Ahmed, Ahmed A. Radhi, Ali Jabbar Hussein, Ahmed Dheyaa Radhi, Mohammed Rashid Ahmed , Jamal Fadhil Tawfeq, Abadal-Salam T. Hussain

Session 10. (Galata Hall)		Date: May 25, 2024
Chair: M. Fatih Adak		Time (GMT+3): 09:00 am - 11:00 am
Paper	Author (s)	
34 - Artificial Intelligence (AI) in Economics and Business-Related Research with Data Envelopment Analysis (DEA) Application: A Systematic Literature Review	Katerina Fotova Čiković, Ivana Martinčević, Joško Lozić	
115 - Investigating the Effect of PCA Dimension Reduction Technique in Classifying EMG Data	Mehmet Emin Konuk, Durmuş Özkan Şahin, Erdal Kılıç	
139 - The Combined Method for Detecting Anomalies in the Enterprise Telecommunication Networks	Babyr Rzayev, Indira Uvaliyeva, Zhanar Beldeubayeva	
206 - Optimal Trajectory Tracking Control for a Quadrotor UAV Based on Off-Policy Reinforcement Learning	Mehmet Karahan	
210 - A Different Approach To Determining The Quality Level Of Electrical Resistance Spot Welds In The Industrial Serial Production	Hikmet Otmanbölük, Sarp Ertürk	
142 - Development and evaluation of models for differential diagnosis of clinical and hematologic syndromes based on ensemble machine learning methods	Indira Uvaliyeva, David Borozenets	
143 - Experimental study and comparison of medical methodology and machine learning models to enhance algorithms for morphological classification of clinical and hematologic syndromes	Indira Uvaliyeva, David Borozenets	
229 - Source Code Summarization & Comment Generation with NLP : A New Index Proposal	M. Fatih Adak, M. A. Eren Kılıç	

Session 11. (Haliç Hall)		Date: May 25, 2024
Chair: Turgut Ozseven		Time (GMT+3): 09:00 am - 11:00 am
Paper	Author (s)	
209 - From Pixels to Paths: SIGHT - A Vision-Based Navigation Aid for the Visually Impaired	Tugrul Acar, Alper Solmaz, Irem Cengiz, Ahmet Selman Bozkir	
162 - Banner Ranking Based On Click Prediction In The E-Commerce	Mustafa Keskin, Enis Teper, Mehmet Selman Sezgin, Bilgesu Bük	
132 - Edge Computing and Robotic Applications in Modern Agriculture	Ahmet Ayтуğ Ayrancı, Burcu Erkmen	
202 - Exploring the Potential of Machine Learning Approaches in Fire Detection: A Case Study in Marmara and Kocaeli Region	Ahsen Usta, Orhan Akbulut	
307 - Pregnancy Risk level prediction through Cardiograph Data Analysis : A Deep Learning Approach	Hanan Abdul Wahid Khamis	
129 - Açısıl Yönlendirmeler Kullanılarak Derin Öğrenme Tabanlı Parkinson Hastalığı Sınıflandırması	Fuat Uyguroğlu, Önsen Toygar, Hasan Demirel	
293 - Derin Öğrenme Yöntemleri ile Ektopik Erüpsiyon Bölgelerinin Tespiti ve Şiddet sınıflandırması	Esen Turunç, Sibel Arslan, Hamza Osman İlhan, Yasin Yaşa	
262 - Comparison of Black Widow Optimization and Aquila Optimizer with Current Metaheuristics	Metin Kalyon, Sibel Arslan	

<p>Keynote Speaker 11:00 am - 11:30 am "Fractional-Order PID Control by 3D Plots" Prof. Dr. Mehmet E. KOKSAL</p>
<p>Keynote Speaker 11:30 am - 12:00 pm "Wireless Communications: From Optimization to Learning" Dr. Ahmet M. ELBIR</p>
<p>📍 Dolmabahçe Hall</p>

Session 12. (Galata Hall)		Date: May 25, 2024
Chair: Ebubekir Yasar		Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)	
144 - Enhancement 5G Backhaul in Radio-over Fiber (RoF) System by Eliminate Error Vector Magnitude	Sura Mousa Ali , Ehab Hussein	
149 - Optimizing QoS in Internet of Multimedia Things using Cross-Layer Design and Artificial Bee Colony	Ahmed A. Khalifa, Shreyas J , Gururaj H L, Udayaprasad P K, Srinidhi N N	
97 - Adaptive Signal Processing Techniques for UAV Path Planning in Dynamic Urban Environments	Noor Shahid, Muhammad Abrar , Roha Masroor	
303 - Unlocking Strategic Insights: A Machine Learning Approach to Business Management Optimization	Ali Jabbar Hussein, Saadaldeen Rashid Ahmed, Mohammad K. Abdul- Hussein, Bourair Al-Attar , Duaa A. Majeed, Abadal-Salam T. Hussain, Jamal Fadhil Tawfeq	
195 - Forecasting Financial Frontiers: Real-time Insights in Stock Price Prediction through LSTM, Linear Regression, and Sentiment Analysis	Ahmed A. Khalifa, Ramesh G, Deekshith R, Harsha K, Shreyas J	
230 - Detecting Arrhythmias Using ECG Signals with Machine Learning Techniques	Hamidreza Laribi , Samantha Barua Chowdhury, Rashid Mirzavand, Kambiz Moez	

Session 13. (Haliç Hall)		Date: May 25, 2024
Chair: M. Emir Köksal		Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)	
86 - Game-Theory-Based Analysis of Key Factors Influencing Saudi Consumer Trust in E-commerce	Bandar Alkhalil , Yu Zhuang, Khalid Mursi, Ahmad Aseeri	
50 - Online Food Delivery by Personal Customization System	Vedika Reddy Janupally , Chaitanya Gugulothu, Manogna Jeelugula , Nihitha Donthula, Manzoor Hussain Mohammad	
118 - Healthy Eats - Online Food Delivery That Urge To Eat Healthy and Live More	Vedika Reddy Janupally , Bindu Madhuri Reddy Janupally, Manzoor Hussain Mohammad	
306 - Enhancing Power Grid Efficiency using Machine Learning Algorithms	Saadaldeen Rashid Ahmed, Leena. Ali, Ali Jabbar Hussein, Bourair Al-Attar, Brwa Abdulrahman Abubaker, Jamal Fadhil Tawfeq , Abadal-Salam T. Hussain	
203 - Defensive Auto-Updatable and Adaptable Bot Recommender System (DAABRS): A New Architecture Approach in Cloud Computing Systems	Sufian Khwaldeh , Mohit Yadav, Khushwant Singh	
53 - Federated Learning for Privacy-Preserving Intrusion Detection in IoT Networks	Sarmad Dheyaa Azeez , Muhammad Ilyas, Imad Matti Bako	
62 - Continuous Arabic Speech Recognition Model with N-gram Generation Using Deep Speech	Fawaz S.Al-Anzi , S.T.Bibin Shalini	

Coffee Break

Session 14. (Galata Hall)		Date: May 25, 2024
Chair: Abadal-Salam T. Hussain		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	
113 - Expert algorithm to optimize the process of selecting a topic for a research project with the assistance of ChatGPT	Aldeniz Rashidov	
196 - Real-Time Evaluation of Human Inertial properties in Immersive Simulators for Moth type Boats	Davide Todesca , Carol Sergenti, Nicola Giuliatti, Marco Carnevale	
279 - Color Image Encryption For IoT Using a Dynamical Non-Linear Stream Cipher Cryptosystem	Fadhil Hanoon Abbood , Leila Ben Ayed	
302 - Machine Learning Applications in Supply Chain Management: Predictive Power Unleashed	Saadaldeen Rashid Ahmed, Ali Jabbar Hussein, Hala Adnan. Fadel, Bourair Al-Attar, Ghassan Hamada Ali Alshmeel, Abadal-Salam T. Hussain	
102 - Analysis of cross-talk effects in a parallel kinematic machine for rehabilitation therapies	Giuseppe Mangano , Jose Alfonso Farias Fuentes, Carol Sergenti, Marco Carnevale, Hermes Giberti	
119 - Test of a Numerical Model for a Haptic Pedal Brake System under Different Operating Conditions	Ljuba Isacco , Francesco La Mura, Hermes Giberti	
80 - GorbhoKotha:A mHealth App for Maternal Support in Bangladesh Utilizing User-Centered Design Principles	Sarah Binte Mahub , Nafis Islam, Mehedi Hasan Surem, Ayatullah Arefin, Md Rashid Shabab, Ashraful Islam	
198 - A Novel Rehabilitative Soft Robotics Knee Brace for ACL deficient patients	Hamid Naghibi, Hussain Khambati, Andrea Ryolo, Momen Abayazid	
87 - Real-Time Driver Identification System in the Internet of Vehicles: Seamless Integration of Deep Learning and Cloud Computing	Saja Jabbar , Laith Abdul-Rahaim, Moneer Lilo	
76 - On the Study Sum Graph of the Group $Z_{(\beta\gamma)}$ with Some Topological Indices	Nawar S. Salman , Mahera R. Qasem	
77 - Hosoya-polynomial of sum graph of the group $Z_{2\pi}$	Nawar S. Salman , Mahera R. Qasem	

Session 15. (Haliç Hall)	Date: May 25, 2024
Chair: Saadaldeen Rashid Ahmed	Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)
11 - A Comparative Study of Classification Algorithms for Sentiment Analysis of Covid-19 Vaccine Opinions Using Machine Learning	Dilber S Zainulabdeen , Mesut Cevik
263 - Design of Data Collect System for Cloud Computing of Rivers Quality and Level	Bashar Ahmed , Laith Abdul-Rahaim
128 - Model for diagnosing cardiovascular diseases using AI	Muhamed Karajić, Denis Mušić , Lejla Heco, Emir Osmanović
286 - And Justice for Art(ists): Metaphorical Design as a Method for Creating Culturally Diverse Human-AI Music Composition Experiences	Antonio Correia, Daniel Schneider, Benjamim Fonseca, Hesam Mohseni , Tuomo Kujala, Tommi Karkkainen
287 - Scale Development for Measuring Digitally Enhanced Place-Belongingness: A Research Design	Hesam Mohseni , Antonio Correia, Johanna Silvennoinen, Tuomo Kujala
285 - Enhancing Learning Experiences for Visually Impaired Students with AI and Machine Learning on Smart Device	D. I. De Silva, S. Vidhanaarachchi, R. A. K. M. Ranasinghe , M. N. N. J. Jayasooriya, D. M. P. S. Jayawardhana, D. K. S. Savishka
212 - Enhancing Automated Android Application Security through Hybrid Static and Dynamic Analysis Techniques	Geethika Manukulasooriya , Sasitha Munasingha, Iresha Uthpali, Hansika Yeshani, Harinda Fernando, Deemantha Siriwardana
100 - Development of a Lightweight Encryption Algorithm Based on Extended Galois Fields	Roman Korolov, Dmytro Yevseiev, Stanislav Milevskiy , Oleksandr Umanskiy, Illia Shyian, Zoia Sydorenk
299 - Characterizing Transients in Transmission Line Earthing Systems: Analysis and Control Strategies	Saadaldeen Rashid Ahmed , Basim Galeb Mejbel, Shaymaa Dheeb, Baqer A Hakim, Ahmed L. Alshami, Abadal-Salam T. Hussain, Duaa A. Majeed, Jamal Fadhil Tawfeq
301 - Advanced Optimization Techniques for CNC Machining: A Comparative Study of Genetic Algorithms, Simulated Annealing, and Particle Swarm Optimization	Duaa A. Majeed, Mustafa Yaseen , Ali Jasim Ghaffori, Saadaldeen Rashid Ahmed, Baqer A Hakim, Abadal-Salam T. Hussain