ISMSIT 2022

6th International Symposium on Multidisciplinary Studies and Innovative Technologies

SYMPOSIUM PROGRAM
(online)

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October 20-22, 2022, Ankara, Turkey

20-Oct-22

Time (GMT+3)	VROOM1	VROOM2	VROOM3
10:00 am - 12:30 pm	**Session 1.1** Artificial Intelligence & Machine Learning	**Session 1.2** Artificial Intelligence & Machine Learning	**Session 1.3** Artificial Intelligence & Machine Learning
12:30 pm - 1:30 pm	Lunch		
1:30 pm - 3:30 pm	**Session 2.1** Communication and Networking Computational Methods and Algorithms	**Session 2.2** Communication and Networking Robotic Automation and Control	**Session 2.3** Artificial Intelligence & Machine Learning
3:30 pm - 4:00 pm	Cofee Break		
4:00 pm - 6:00 pm	**Session 3.1** Information Technology	**Session 3.2** Communication and Networking Electronic and Embedded Systems	**Session 3.3** Artificial Intelligence & Machine Learning

21-Oct-22

Time (GMT+3)	VROOM1	VROOM2	VROOM4
10:00 am - 10:30 am	Invited Speaker Berrin Yanıkoğlu		
10:30 am - 11:00 am	Coffee Break		
11:00 am - 12:30 pm	**Session 4.1** Power Energy and Power Electronics Robotic Automation and Control	**Session 4.2** Artificial Intelligence & Machine Learning Innovative Research and Development	**Session 4.3** Communication and Networking
12:30 pm - 1:30 pm	Lunch		
1:30 pm - 3:30 pm	**Session 5.1** Machine Learning Power Energy and Power Electronics	╳	**Session 5.3** Communication and Networking
3:30 pm - 4:00 pm	Cofee Break		
4:00 pm - 7:00 pm	╳	╳	**Session 6.3** Information Technology

22-Oct-22

Time (GMT+3)	VROOM1
10:00 am - 12:30 pm	**Session 7.1** Artificial Intelligence & Machine Learning
12:30 pm - 1:30 pm	Lunch
1:30 pm - 3:30 pm	**Session 8.1** Artificial Intelligence & Machine Learning

Session 1.1. (VROOM1) Chair: Turgut Ozseven	Date: 20-Oct-2022 Time (GMT+3): 10:00 am - 12:30 pm
Paper	**Author (s)**
27 - A new framework for defect detection using hybird machine learning techniques	**Fatma Mansour**, Abdullahi Abdu Ibrahim
152 - A deep learning approach to differentiate between acute asthma and bronchitis in preschool children	**Waleed Salih**, Hakan Koyuncu
226 - Training an open quantum classifier	Ufuk Korkmaz, **Melih Can Topal**, Ekin Aygul, Deniz Turkpence
114 - Comparison of Different Feature Selection Methods Using Support Vector Machine for Estimating Eye Angles	**Alihan Suicmez**, Cengiz Tepe
62 - Diagnosis of respiratory diseases for children using machine learning	**Mufeed Saleh**, Mesut Cevik
311 - Linear Prediction Coefficients Based Copy-Move Forgery Detection in Audio Signal	**Fulya Akdeniz**, Yaşar Becerikli
149 - Classification of Brain Tumors using MRI images based on Convolutional Neural Network and Supervised Machine Learning Algorithms	**Rawaa Ali**, Saif Al-jumaili, Adil Deniz Duru, Osman Nuri Ucan, Aytug Boyaci, Dilek Goksel Duru
64 - Transmission Line Loss Determination of Electricity by Using Convolutional Neural Network	**Elaf Al-Samkri**, Saif Al-jumaili, Harith Muthanna Noori, Adil Deniz Duru, Osman Nuri Ucan
20 - Spectrum Sharing Techniques for Improving the Quality of Service	**Baraa Abdulhakeem**, Omar Gwassi, Raghad Hasan
151 - Predicting Likeliehood of Patients Survival After an Accident Using Statistical Regression	**Najwa Nabeel Hazim Al-Sheikh**, Mesut Cevik

Session 1.2. (VROOM2) Chair: Ebubekir Yasar	Date: 20-Oct-2022 Time (GMT+3): 10:00 am - 12:30 pm
Paper	**Author (s)**
124 - Gaussian Mixture Model Application in Deforestation Monitoring	**Alexandru-Toma Andrei**, Ovidiu Grigore
218 - Closing the Quality Assurance Feedback Loop: Independent Recommender System VALidator	**Kamilla Wells**
259 - Workflow For Medical Data Classification And Analysis	**Veska Gancheva**, Violeta Todorova
284 - Preliminary Auditory-Perceptual Evaluation of Resonance for Implementation In An Artificial Intelligence System	Dionysios Tafiadis, Spyridon K. Chronopoulos, Evangelia I. Kosma, Louiza Voniati, Konstantinos Drosos, **Kostas P. Peppas**, Polyniki Kastanioudaki, Nafsika Ziavra
70 - Review Study on Blockchain Frameworks for Security Issues in IoT Devices	**Roohi Sille**, Hussain Falih Mehdi, Tanupriya Choudhury, Samyukta Sahoo, Akshita Kapoor, Ishita Nanda, Arnav Sharma
71 - Idea Mining From Online Reviews Using Transformation-Based Natural Language Processing Tasks	**Hussain Falih Mahdi**, Lav Kumar Gupta, Tanupriya Choudhury, Nikunj Bansal
309 - CNN-LSTM To Identify the Most Informative EEG-Based Driver Drowsiness Detection Brain Region	**Imene Latreche**, Sihem Slatnia, Okba Kazar
310 - Comparative Analysis Between the Traditional K-Nearest Neighbor and Modifications with Weight-Calculation	**Tsvetelina Mladenova**, Irena Valova
318 - Automated Optic Disc And Cup Segmentation For Glaucoma Detection From Fundus Images Using The Detectron2's Mask R-CNN	**Fengze Wu**, Marion Chiariglione, Xiaoyi Raymond Gao
306 - Ukraine Stock Market Spatial-Dynamic Analysis	Natalia Chernova, **Olena Serhiienko**, Liubov Chagovets, Valeria Baranova, Nataliia Volosnikova
322 - Wavelet-Denoised ARIMA And LSTM Method To Predict Cryptocurrency Price	**Ersin Sener**, Ibrahim Demir
321 - Which Keyword Extraction Method Performs Better For Emerging Technology Detection?	**Ali Ghaemmaghami**, Andrea Schiffauerova, Ashkan Ebadi

Session 1.3. (VROOM3) Chair: Saadaldeen Rashid Ahmed	Date: 20-Oct-2022 Time (GMT+3): 10:00 am - 12:30 pm
Paper	**Author (s)**
42 - Study the effect of axial heat conduction in microchannel heat exchanger with different channels geometries	Ahmed A. Ali, **Zahra J. Hansh**, Ghassan Abid, Mushtaq I. Hassan
79 - Burnout Among Nursing Workers Who Provide Nursing Care for People Infected with COVID-19	**Abdul Rahman A. Albattat**
80 - Correlation of Polyomaviruses (PyV) Infection with The Incidence of Breast Cancer in Iraqi Women	**Harithabdual Sahibsharrif**, Mustafa Ali Kayem Almohsen, Yaqeen Al-Husseini, Amran M. AL-Erjan
83 - Application of The Evans Blue Dye for The Study of Permeability of The Blood Brain Barrier in Rodents	**Karrar K. Atiyah**
88 - Clinical Study of Serum Gamma- Glutamyl Levels in Cigarette Smokers with Nonalcoholic Fatty Liver Disease, Governorate – Iraq	**Ahmed Ali Abdulali**, Sarah Kadhim Murad, Rola Ali Shahid
93 - A Unified Objective Ant Colony Optimization for Sentiment Oriented Text Summarazation	**Abeer Raad**, Rafid Sagban
94 - Detection of Diarrhoeagenic Escherichia Coli Among Other Bacterial Species Isolated from Children Patients by Automated Methods and Culture based Techniques	**Murtada Hasan Abed**, Mustafa. K. Hassan
107 - Enhancing E-learning Quality by Examining The Effects of Key Factors in Iraqi Higher Education Institutions	**Ahmed Fahad**
128 - Optimizing the Pattern Recognitions Accuracy by Neural Network Methods	**Mushreq Abdulhussain Shuriji**, Raad Hamdan Thaher, Ali Abdulrahman Safar, Asim M. Murshid
129 - The Efficiency of Ensemble Techniques in Predicting Thyroid Disorder: A Comparative Study	**Muntadher Alsaadawi**, Eftâl Şehirli

Session 2.1. (VROOM1) Chair: Turgut Ozseven	Date: 20-Oct-2022 Time (GMT+3): 1:30 pm - 3:30 pm
Paper	**Author (s)**
116 - A Piecewise-objective Fuzzy-probabilistic Programming Approach for Supplier Selection Problems Involving Discounted Prices/Costs and Uncertain Parameters	**Sutrisno Sutrisno**, Widowati Widowati, Sunarsih Sunarsih, Kartono Kartono
270 - Implementation Of Socket Programming Simulation Using Quantum Communication Technologies	**Elif Özceylan**, Cumali Yaşar, Baktygul Assanova
281 - Investigation Of Environmental Effects in Terahertz Band Vehicular Communication	**Enis Körpe**, Mustafa Alper Akkaş, Radosveta Sokullu
260 - Sentiment Based LSTM For Stock Price Prediction: Congress Vs General Public	Alex Trawinski, Hayden Wimmer, **DeJarvis Oliver**
271 - Geometric Analysis Of Brain Pathology Using MRI For Tumor Diagnosis	**Aynoor Sameer Mahmood Akmakchi**, Mesut Çevik
108 - Conceptualization of Meta-Servitization: 3D Case Study from Furniture Industry	Özgür Uğur Arıkan, Esra Öztürk, **Sonay Duman**, Mehmet Ali Aktaş
303 - Development of an Artificial Vision System Compatible with Industry 4.0 For Quality Control Of 3D Parts in Automotive Production Lines	**Gokay Bayrak**, Abdullah Cakiroglu, Imren Ozturk Yilmaz, Abdullah Yasin Bilici, Yasin Atalay Candemir
3 - Hand Gesture Recognition for Interactive Media Player Using CNN and Image Classification	**Anwar Diyaa Awad**, Hakan Koyuncu
248 - Review Of User Experience Models In The Context Of ELearning Setting	**Mohammed Alhejaili**, Roslina Ibrahim
252 - Application Of OpenCV In Serious Games	**Ivan Ralev**, Georgi Krastev

Session 2.2. (VROOM2) Chair: Ebubekir Yasar	Date: 20-Oct-2022 Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)
16 - Obstacle Avoidance in Unmanned Aerial Vehicles Using Image Segmentation and Deep Learning	**Amro Ali Obaid**, Hakan Koyuncu
171 - Accelerometer Based Fall Detection And Location Tracking System Of Elderly	**Georgi Shipkovenski**, Petya Byalmarkova, Teodor Kalushkov, Donika Valcheva, Emiliyan Petkov, Zdravka Koleva
173 - Fault Tolerance Smart Incubator With IoT Control and Alerts	Emiliyan Petkov, **Teodor Kalushkov**, Georgi Shipkovenski, Rositsa Radoeva, Donika Valcheva
46 - An erbium-doped EDFA amplifier pump with a 1550-nm pumped erbium-doped fibre	**Abdullah Dheyab**, Abdullah Dawood Kshash, Alaa Amjed Abdulateef, Ihsan Amjad Abdulateef, Lina Elwiya
299 - Design Of Automated Coffee Machine Through Verilog HDL	Vladimir Hristov, **Marin Zhilevski**, Danail Slavov
256 - Stochastic Programmable Paradigm Of Quality Control Management In Multi-Agent Systems	**Karlygash Alibekkyzy**, Kairat Koshekov
328 - Water Resource Management Electromagnetic Flow Meters Analysis	**Sarvar Maxmudjanov** , Raximjon Azimov, Jahongir Modullayev, Rizamat Ruzikulov
117 - Preventive measurement and Prediction of Covid-19 in India through Business Intelligence Tools	**Bhupesh Kumar Dewangan**, Mohammed Hasan Alwan, Husain Falih Mahdi, Tanupriya Choudhury, Asmit Piyush, Abhijeet Rai, Alok Dubey, Akshay Singh
60 - Design and Simulation of Single and 2x2 MIMO Circularly Polarized Patch Antennas with a Pair of Chip Resistors for 5G Applications	Falih Alnahwi, **Husham Swadi**, Abdulkareem Abdullah
301 - Implementation Of Robot Get-Position-Quick Function to MELFA Robots	**Boris Kostov**, Vladimir Hristov
316 - Laboratory Stand For Research Of Energy Characteristics On Electric Drives With Two Direction Energy Exchange	Vladimir Hristov, **Kamen Hristov**, Hristo Stoyanov, Danail Slavov

Session 2.3. (VROOM3) Chair: Saadaldeen Rashid Ahmed	Date: 20-Oct-2022 Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)
156 - Analyze Urban Area Density As A Measure Of Urban Reconstruction	**A R Al-Adday**, Adnan H Abdulkadhim, E J Al-Shebillawy, B A Al-Mossawy
157 - Research Study on Relation between Age and Bone Mineral Density	**Saleh Naima Muhan**, Hadi Dwech Zarzoor, Shafik S. Shafik
188 - Oil Spill Segmentation from SAR Images Using Deep Neural Networks	**Alaa Akram Huby**, Raaid Alubady, Rafid Sagban
189 - YOLO ve SSD ile Birçok Koşulda Nesne Algılama için Makine Öğrenimi Yaklaşımı	**Ali Jamal Jalil**, Soydan Serttas
201 - Vehicle License Plate Detection Using Deep Learning	**Omar Gheni Abdulateef**, Abdulqadir Ismail Abdullah, Saadaldeen Rashid Ahmed, Mahdi Salah Mahdi
333 - Speaker Diarization Based On Deep Learning Techniques: A Review	Thaer M. Al-Hadithy, **Zaidoon Kamil Maseer**, Mondher Frikha
207 - Intraoperative Fluid Management for Major Neurosurgery: Narrative study	**Hussein Ali Al-Hchaimi**, Majid Fakhir Alhamaidah, Hussein Alkhfaji, Maytham T. Qasim, Ammar Hoom Al-Nussairi, Hamza Sh. Abd-Alzahra
332 - Base Node Position Optimization For Optimal Energy Consumption In Wireless Sensor Networks	**Mays Qasim Jebur**
208 - Identification of Candida Krusei by 18S rRNA Gene and Investigation of SAP1 Gene in Samples Isolated from Female Genital Tract Infection	**Enas R. Alwaily**, Meethaq S. Abood, Mohammed H. Flaih
209 - Genetic Diagnosis of Entamoeba Histolytica in Patients with Acute Diarrhea in AL-Rifai City/Thi-Qar province	**Ahmed Remthane Hussein**, Akram Radhi Salim, Mohammed Yousif Aziz, Huda Abdul Hadi Qadir Abaas, Amran M. AL-Erjan, Firas Rahi Alhachami

Session 3.1. (VROOM1) Chair: Turgut Ozseven	Date: 20-Oct-2022 Time (GMT+3): 4:00 pm - 6:00 pm
Paper	**Author (s)**
96 - Study for Buildings with IoT System for Energy Management	**Ali Saadoon Ahmed**, Sefer Kurnaz, Mustafa Maad Hamdi, Arshad Mohammed Khaleel, Amjed Mohammed Khaleel
111 - Test Case Auto-Generation For Web Applications: A Model-Based Approach	**Refat Othman**, Samer Zein
213 - Microarray and Pathway Analysis for Osteoarthritis Disease	**Tugce Paksoy**, Zerrin Isik
282 - NFT-based Asset Management System	**Ismet Abaci**, Eyup Emre Ulku
329 - Mathematical Modeling Of Information Data In The Logistics Information System For Solving Some Problems (credit System Of Education)	Tulkun Yadgarov, **Akmal Aliqulov**, Sarvar Makhmudjanov
330 - The Process Of Creating Teacher's Personal Page Structure Model For An Integrated Education System	Sarvar Makhmudjanov, Shodmon Shokirov, **Akmal Aliqulov**
287 - From Google Forms to Data Repository: A New Methodology In Data Collecting, Data Transforming, And Information Systems Evaluation	**Forat Falih Hasan**, Shahbani Abu Bakar
132 - Recent Advances on Convolutional Architectures in Medical Applications: Classical or Quantum?	**Saif Al-jumaili**, Ahmed Al-jumaili, Salam Alyassri, Adil Deniz Duru, Osman Nuri Uçan
274 - The Perspective Of Data Quality Rules In Google Forms	**Forat Hasan**, Shaymaa Hameed
278 - MDA: Multiple Decentralized Anchors for Hiding Communication Information	**Amr Abdelbari**
280 - Integrating Ontologies and Relational Databases For An Improved Data Access	**Aytuğ Türkmen**, Özgü Can
217 - A Comprehensive Review of Cybersecurity Perspective for Wireless Sensor Networks	**Luan Gashi**, Artan Luma, Azir Aliu

Session 3.2. (VROOM2) Chair: Ebubekir Yasar	Date: 20-Oct-2022 Time (GMT+3): 4:00 pm - 6:00 pm
Paper	**Author (s)**
204 - Development of a Method for Measuring small Nonlinear Distortions of Periodic Electrical Signals	Sergey Herasimov, Viacheslav Soroka, Serhii Yevseiev, **Stanislav Milevskyi**, Kyrylo Bondarenko
297 - Efficient Distributed Snapshot Algorithms with Less Message Overhead	**Taesoon Park**
214 - Improvement of the Methodology of Building a System of Phase Synchronization of Coherent Demodulators in Telecommunication Control Systems and Distance Learning	Haider Mahmood Jawad, Mahmood Jawad Abu-AlShaeer, Serhii Yevseiev, Valery Kornienko, **Oleksandr Turovsky**
269 - Study Of Substrate-Materials Impact On Compact Antenna Performance	**Sarmad Mahmood**, Tale Saeidi, Arkan Ismael, Sameer Alani
4 - Improvment of Solar Energy Efficiency Using Solar Tracking and Artificial Intelligence	**Hussein Mohammed Ali Hammood Alwakeel**, Qader Farhan Abed Abed, Zaid Hamodat
178 - Detection of COVID-19 using Classification of an X-ray Image Using Local Binary Pattern and K-Nearest Neighbors	**Ali Saadoon Ahmed**, Sefer Kurnaz, Mustafa Maad Hamdi, Amenah Nazar Jabbar, Arshad Mohammed Khaleel, Mohammed E. Seno
11 - Barranco de Santos. Reality versus theory	**Raúl Parra Hermida**
125 - Analyzing Optical Fibre Communication Networks for Intrusion Detection Using FBG Sensors	**Elaf Alabed Ali**, Muhammad Ilyas
160 - Binary Error and a three-level division multiplexing Dispersion analysis of a rat optical fibre communication system	**Ali Hussein Oleiwi Almukhtar**, Sefer Kurnaz
185 - Electric Shore-to-ship Charging Socket Detection Using Image Processing and YOLO	Emin Guney, Ismail Hakki Sahin, Serap Cakar, Ozhan Atmaca, **Erdeniz Erol**, Mert Doganli, Cuneyt Bayilmis
292 - An Experimental Study of The Effect of Different Genetic Algorithm Operators on Coverage Using Heterogeneous Nodes	**Serif Aspiro**, Serap Karagol

Session 3.3. (VROOM3) Chair: Saadaldeen Rashid Ahmed	Date: 20-Oct-2022 Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)
221 - Multi-Exposure Image Fusion using Convolutional Neural Network (CNN)	**Zainab Salam Abdulmohsin Al-Qassab**, Hamza Gharsellaoui, Sadok Bouamama
225 - Attending to Channels in One-Shot Learning Face Recognition using Squeeze-and-Excitation Networks	**Arkan Mahmood Albayati**, Wael Chtourou, Faouzi Zarai
228 - Numerical Study of the Effect of the Rehabilitation Process on Segregated Concrete Beams' Behaviour	**Abdullah N. Huby**, Sadjad A. Hemzah, Wajde S. Alyhya
229 - Improving the Performance of the Karbala Wastewater Treatment Plant by Using GPS-X Model	**Ayaat Nabeel Hammed**, Bassem Khalil Nile, Jabbar Hammoud Al-Baidani
230 - Role of Nitric Oxide and some Antioxidants in Women with Pregnancy-induced Hypertension	**Khansaa A. Hussein**, Sara H. Thejeel, Ahmed R.Y Al-Sawad
231 - Relationship Between Gene Polymorphism of Vitamin D Receptor with Coronary Heart Disease (CHD) in Baghdad province /Iraq	**Mustafa Jawad Kadham**, Rawaa Najim Abdullah, Amran M. AL-Erjan
205 - Effect of Gamma Radiation and Borax on Mechanical Properties of Polyvinyl Alcohol and Chitosan Blend Film	**Zahraa A. Abdul Muhsin**, Ahmed Saad Aldhamin, Shafik S. Shafik
29 - An Experimental Study to Enhance the Heat Transfer by the Flow Disturbing	**Zuheir Jawad Ibadi**, Hayder Azeez Neamah Diabil
30 - Bearing Capacity of Pile Foundation Using Different Methods based on SPT measurements for a Soil in Nasiriyah	**Ressol R. Shakir**, Raghad A. Fahad
232 - Physicochemical and Heavy Metal Properties of Soil Samples in Waste Disposal Site, Suq Al-Shyokh, Iraq	**Mahmoud Jamal Abdulhasan**, Hayder Saadoon Abdulaali, Qusay Luay Al-Doori, Heba Sahib Dakheel, Raheem Hameed Al-Abdan, Firas Rahi Alhachami, Anmar Jasim Hameed, Sarah Jawad Shoja, Mustafa M. Mansour
243 - Study Of Swelling Potential Soil In Diwaniya City Based On Previous Empirical Equations	**Saad H. Hadi**, Yasameen Azeez Abdul Sada
246 - Classification And Prediction Retinal Oct Images By CNN Algorithm	**Mustafa Manal Noori Al-Tekreeti**, Mustafa Yagici
275 - Detecting And Classifying Drug Interaction Using Data Mining Techniques	**Baraa Taha Yaseen**, Sefer Kurnaz, Saadaldeen Rashid Ahmed

Invited Speaker
Berrin Yanıkoğlu
"Deep Learning in Computer Vision: Applications and Research"
21-Oct-2022   Time (GMT+3): 10:00 am - 10:30 am   Chair: Ebubekir Yasar (VROOM2)

Session 4.1. (VROOM1) Chair: Turgut Ozseven	Date: 21-Oct-2022 Time (GMT+3): 11:00 am - 12:30 pm
Paper	Author (s)
199 - Energy Harvesting using Piezo transformer from residual fault current 30 mA	**Gurivi Reddy**, Yogesh Rajwade
239 - The Investigation On The Heating Performance Of The Heat Pump System With Waste Heat Recovery For The Electric Vehicle	**Berkay Tahirağaoğlu**, Enes Başak, Halil Bayram, Gökhan Sevilgen
253 - Impacts Of Adaptive Reserve Management On Automatic Generation Control For Interconnected Power Grid	**Ali Güleç**, M. Cengiz Taplamacıoğlu
291 - The Effect of Engraving Depth and Silicon Geometry On Pad Printing Efficiency	**Buse Dasdemir**, Burak Kukcu, Aycan Anil, Ugur Buyuk, Anil Akdogan, Ali Serdar Vanli
12 - Investigation of the Effective Factors on Solar Powered Fixed-Wing UAV for Extended Flight Endurance	**Aws Alfalahi**, Yaser Alaiwi
295 - Brain Tumor Detection Using Convolutional Neural Network	**Nisar Ahmad**, Kamil Dimililer
130 - Simulated Motion Control of a School of Microrobots with Random Walks	**Ahmet Fatih Tabak**
143 - An Approach to Preserve Optimality in Implementation of Fractional Order PID Controllers Considering Approximation Methods	**Furkan Nur Deniz**
238 - Optimal Design Of An In-Runner Direct-Drive Synchronous Permanent Magnet Starter/Generator For UAVs	**Sami Arslan**, Ires Iskender, Tuğba Selcen Navruz
277 - Intelligent Irrigation System-Automation Using IoT Technology: A Review	**Mohammed Sulaiman Mustafa,** Hakan Kutucu

Session 4.2. (VROOM2) Chair: Ebubekir Yasar	Date: 21-Oct-2022 Time (GMT+3): 11:00 am - 12:30 pm
Paper	Author (s)
268 - Development Of Infectious Waste Sterilization And Neutralization System	**Sri Poernomo Sari**, Nur Sultan Salahuddin, Sri Hayuningsih, Rochmawati Ramadhan, Ario Geraldi, Ichsan Purnama, Nora Trisna Tumewa
175 - Personalised Approach For Building a Gamified Project For User Motivation Management	**Zdravka Koleva**, Donika Valcheva, Teodor Kalushkov, Georgi Shipkovenski, Petya Byalmarkova, Rositsa Radoeva
222 - The Internet of Things Network Penetration Testing Model Using Attack Graph Analysis	**Omar Almazrouei**, Pritheega Magalingam
170 - Image Filtering of Impulsive Noise Using Biologically Inspired Algorithms	**Hadeel Sabti Gharraf Al-sadoon**, Galip Cansever
331 - Quantified-state-feedback-based Nonlinear Purefeedback MIMO Systems Benefit From Adaptive Neural Control	**Mustafa Mohammed Abdulkareem**, Nibras Habeeb Yas Attrah, Saif H. Alrubaee, Saif Mohamed Baraa Al-Sabti, Abdullah Dheyab, Alaa Hamid Mohammed
312 - Pseudo-Physical Logics in Control of Cyber Security Systems	**Oleksandr Milov**, Serhii Yevseiev, Nataliia Zviertseva, Herman Zviertsev, Yevhen Motalyhin
276 - Study Of The Influence Of Natural Lighting On The Consumed Electricity For Street Lighting In A Medium-sized City	Nikolay Valov, Stoyan Nyagolov, Tsvetelina Mladenova, **Irena Valova**, Donka Ivanova
300 - Development Of Software for Research of Static Mechanical Characteristics in Condenser Mode of Asynchronous Motor	**Vladimir Hristov**, Hristo Stoyanov, Danail Slavov
137 - EasyGoing@Home! Looking for a reproducible efficient flushing process in home parenteral nutrition	**Diana Völz**, Günther Benderoth, Tom Toperi
215 - Staff Training Ontology for Humanitarian Organizations	**Kordeen Khairy Fakhry**, Melike Sah

Session 4.3. (VROOM3) Chair: Saadaldeen Rashid Ahmed	Date: 21-Oct-2022 Time (GMT+3): 11:00 am - 12:30 pm
Paper	**Author (s)**
119 - Efficient approximate analytical methods to solve Kaup-Kupershmidt (KK) equation	**Sadoon M. Eid. Abdul Kadir**, Wafaa M. Taha, Raed A. Hameed, Ali Jameel
68 - Smart Cities: A Strategic Approach to Urban Sustainability	**Walaa Qasim Sadeq Albarazanchi**, Mesut Cevik
126 - Design of Frequency Reconfigurable Patch Antenna for C, X, Ku, and K Bands Applications Controlled by PIN-Diode	**Mushreq Abdulhussain Shuriji**, Raad Hamdan Thaher, Ali Abdulrahman Safar, Asim M. Murshid
134 - A Modified Blowfish Algorithm To Secure Data In Cloud	**Shamil E. Alaojan**, Auday H. Alwattar
135 - Multiple FBG Wavelength Peaks Detection using Z-score algorithm	**Raed Sattar Jebur**, Raad Hamdan Thaher
138 - Homomorphic Encryption between Client and Cloud Server	**Maha A. Sayal**, Mali H Hakem Alameady
141 - Survey of General Communication Based on Using Deep Learning Autoencoder	**Mohaimen Mohammed**, Mesut Çevik, Salam Alyassri
142 - Using DNA In Adynamic Lightweight Algorithm For Stream Cipher In An IoT Application	**Amjad Anwer M. Al Abbas**, Najla Badie Ibraheem

Session 5.1. (VROOM1) Chair: Turgut Ozseven	Date: 21-Oct-2022 Time (GMT+3): 1:30 pm - 3:30 pm
Paper	**Author (s)**
136 - Deep Transfer Learning Methods for Classification Colorectal Cancer Based on Histology Images	**Ahmed Sami Alhanaf**, Saif Al-jumaili, Salam Alyassri, Adil Deniz Duru, Hasan Huseyin Balik, Gokhan Bilgin
140 - Course Recommendation System for Students Using K-Means and Association Rule Mining	Md. Mijanur Rahman, Richana Rayasim Richi, Md. Shariful Islam, **Asim Chakraborty**
166 - Using ANN to Predict Gender-Based Violence in Iraq	**Layth Refea Abdulkareem**, Oguz Karan
326 - Impact Of Solar Hosting Capacity On Distribution Transformer Efficiency	**Beyzanur Aydin**, Gokturk Poyrazoglu
106 - A Review of Models and Factors for Digital Educational Games Acceptance and User Experience	**Husna Hafiza Razami**, Roslina Ibrahim, Nada Mansour Aljuaid
69 - GAN and IEC Approach for Image Generation	Amar Shukla, Hussain Falih Mahdi, Ishita Tandon, **Rajkamal Singh**, Tanupriya Choudhury
168 - Performance comparison of convolutional neural network models for plant leaf disease classification	**Fatimah Al_Heeti**, Muhammad Ilyas
233 - Power Quality Assessment of Karabuk University's Grid-connected Microgrid under High Penetration of PV Generation	**Mohamed Almaktar**, Abbas Falah, Zakaria Hasan, A. M. Elbreki, F. A. Mohamed
65 - Using A Novel Method To Improve Various Stages Of Machines In The Power System	**Mohammed Ali**, Saif Al-jumaili, Harith Muthanna Noori, Adil Deniz Duru, Osman Nuri Ucan

Session 5.3. (VROOM3) Chair: Saadaldeen Rashid Ahmed	Date: 21-Oct-2022 Time (GMT+3): 1:30 pm - 3:30 pm
Paper	**Author (s)**
146 - Efficient Time-Sensitive Routing Protocol For Wireless Sensor Network (ETSRP)	**Yasameen Khudhayer**, Haydar Abdulameer Marhoon
155 - Effects of Istanbul's Weather on Free-Space Optical Communications	**Mohammed Kadhim Alfalih**, Indrit Myderrizi, Ahmed Solyman, Mohaimen Mohammed
169 - Circular Patch Antenna Design and Analysis For L, S, C, Ku, K, Ka Bands, and 5G, Wireless Applications	**Raad H. Thaher**
31 - Investigation of the effect of laser- parameters on the improvement of the signal of spectral analysis lines of heavy metals in the crude oil by using LIPS - System	**Bilal Ahmed Hbeeb**, Ahmed Ali Akbar, Abdul Khaliq Fawzi
32 - Petrographic study of Injana Formation in selected areas in Iraq	**Mohammed L. Hussein**, Abdulhussien N. Alattabi, Mohanad R. A. Al-Owaidi, Aqeel Abdulhassan Husein, Saif Altai
190 - Implementing 3GPP Code Division for Non-Orthogonal Multiple Access in 5G	**Aymen Mohammed Khodayer**, Omer Mohammed Khodayer Al-Dulaimi, Mohammed Khodayer Hassan Al-Dulaimi
150 - A Photovoltaic Electric Vehicle Automatic Charging and Monitoring System	Yitong Niu, Fadya A. Habeeb, Muneer Sameer Gheni Mansoor, Hassan Muwafaq Gheni, **Saadaldeen Rashid Ahmed**, Ahmed Dheyaa Radhi
97 - Effect of the Three Dimensional Conformal Radiotherapy (3DCRT) Peripheral Dose on The Nipple Region of The Opposite Breast of The Obese Cancer Patients	**Nabaa A. Rasheed Naji**, Tahseen A. Alrubai, Amal Abdul Ridha, Wassan Nori, Mazin A.A. Najma

Session 6.3. (VROOM3) Chair: Saadaldeen Rashid Ahmed	Date: 21-Oct-2022 Time (GMT+3): 4:00 pm - 7:00 pm
Paper	Author (s)
40 - Total Petroleum System Study Of Nahr Umr Oil field Southern Iraq	Abdullah A. Ali, **Abdulhussein N. Alattabi**, Murtadha D. Abdullah
41 - Quality assessment of heavy metals presented in crude oil by identification spectral lines by the LIPS - System	Bilal Ahmed Hbeeb, **Ahmed Ali Akbar**, Abdul Khaliq Fawzi
47 - Experimental Investigation of Double Web Steel Beam Filled with Recycled Aggregate Concrete(RAC)	**Abbas Jalal Kaishesh**, Sadjad Amir Hemzah, Bahaa Hussain Mohammed
154 - The Proposal of Equations Fitting for Maximum Nuclear Stopping Power Contribution of Incident Lithium in Some Different Elements	Reyam A. Noori, Shafik S. Shafik, **Hadi Dwaich**
164 - The impact of recycled crumb rubber powder on the behavior of the asphalt mixture	**Ghazi Jalal Kashesh**, Hasan H. Joni, Anmar Dulami
165 - Harmonic Analyses of a Voltage Fed Induction Furnace	**Mohammed A. Mohammed**, Isam M. Abdulbaqi
153 - Improving Automatic Image Annotation System to handle Spatial Analysis of Aerial Imagery	**ALI Abbas AL-Shammary**, Nizar Zaghden, Med Salim Bouhlel
14 - Effect of Transverse Openings on Structural Behavior of Reinforced Concrete curved Beams	**Sajjad Firas Abdulameer**, Laith Shakir Rasheed
36 - Spatial Analysis Based Method to Determine the Optimal Locations for Asphaltic Concrete Plants: Case Study in Karbala Governorate of Iraq	**Sawsan Rasheed Mohammad**, Ghayath Hamza Ali
52 - Flexural Behavior of Reinforced Recycled Aggregate Concrete Beams Strengthened by CFRP	**Malak H. Dawood**, Ali K. AL-asadi
206 - Interleukin_4 Gene Polymorphisms and Connect With Asthma Patients Province of Thi-Qar /Iraq	**Zahraa F. Hassan**, Heba Kassim Al-Rekaby, Hiba Sh. Hussein, Murtadah R. Hassan, Ahmed K.Abdul Hussain, Firas Rahi Alhachami

Session 7.1. (VROOM1) Chair: Turgut Ozseven	Date: 22-Oct-2022 Time (GMT+3): 10:00 am - 12:30 pm
Paper	**Author (s)**
179 - Suggestion New Monitoring System by Depending on the Human Activity Recognition Videos	**Marwah Al-Siraj**, Mesut Cevik, Shakir Ibrahim
180 - Novel approaches to measuring the popularity inclination of users for the popularity bias problem	**Yucel Tacli**, Emre Yalcin, Alper Bilge
336 - Developing A Watermarking Algorithm Using Hide Information Techniques	**Akam Qader Omar**, Omar Dakkak
181 - Expert System for Classification of Nutrition in Young Children	**Maryam Khalid ibrahim Aljuboori**, Muhammad Ilyas
324 - Türkçe Radyoloji Raporlarının Doğal Dil İşlenmesi	**Sumeyra Kus Ordu**, Oktay Yıldız
219 - Detection of Cardiac Arrhythmias in Electrocardiograms Using Deep Learning	**Amenah Alwan Salman**, Abdullahi Abdu Ibrahim
110 - Grey Wolf Optimizer to the Hyperparameters Optimization of Convolutional Neural Network with Several Activation Functions	**Yigit Cagatay Kuyu**, Nurettin Ozekmekci
227 - Animal Gait Identification Using a Deep Learning Method	**Mohammed Alagele**, Remzi Yildirim
249 - Proje Üretim Sistemlerinde Yapay Zeka Tekniklerinin Kullanımı	**Ahmet Selçuk Özgür**, Çiğdem Tarhan, Murat Komesli, Vahap Tecim
258 - Dental Filling Detection Using Deep Learning In Periapical Radiography	**Göktuğ Bacanlı**, Ertuğrul Furkan Savaştaer, Mahmut Emin Çelik
283 - Analysis of Data Augmentation on Skin Lesion Classification by Using Deep Learning Models	**Ozan Alptekin**, Zerrin Isik

Session 8.1. (VROOM1) Chair: Turgut Ozseven	Date: 22-Oct-2022 Time (GMT+3): 1:30 pm - 3:30 pm
Paper	**Author (s)**
193 - Predicting satisfaction of airline passengers using classification	**Lamija Hibović**, Selma Smajić, Emine Yaman
203 - Alzheimer's Disease Detection by Applying Chebyshev Moments Followed by Genetic Algorithms	Pouya Bolourchi, **Mohammadreza Gholami**
261 - Classification Of Standard FASHION MNIST Dataset Using Deep Learning Based CNN Algorithms	**Edmira Xhaferra**, Elda Cina, Luciana Toti
307 - Parameters For Non-Solitons in Fiber and Their Impact on Transmission Performance Over Long Distances	**Mustafa Muhanad M. Salih**, Saif H. Alrubaee, Abdullah Dheyab, Ihsan Amjad Abdulateef, Nejood Faisal Abdulsattar, Fatima Hashim Abbas
325 - Implementation Of Developed Esantem Smart Healthcare System In Metaverse	**Cinay Dilibal**, Yalcin Tur
305 - Healthcare Technology Assessment for Radiology Devices	**Abeer Mohamed Nabil** , Neven Saleh, Mohamed El-Desoky, Abdelrahman Shabaan
131 - Moving Object Detection and Counting in Traffic with Gaussian Mixture Models and Vehicle License Plate Recognition with Prewitt Method	**Mehmet Karahan**, Hamza Kurt, Cosku Kasnakoglu
133 - Sustainable Practices in Construction SMEs in the UAE – A Scoping Study	Vian Ahmed, Sara Saboor, **Jawahir Haif**, Khalid Al Ali, Mohamed Al Marri, Rowda Al Salman
304 - Deep Learning Based Vehicle-to-Vehicle See Through System with Auto-Start Function	**Mehmet Mücahit Kaya**, Maide Elif Özışık, Ali Ömer Baykar, Selim Yannier, Tuba Çonka Yıldız