



4th International Congress on Human- Computer Interaction, Optimization and Robotic Applications

CONGRESS PROGRAM

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June 9-11, 2022, Turkey

June 9, 2022

Time (GMT+3)	VROOM2
10:00 am - 12:30 pm	Session 1.1: Robotics-Mechatronics and Automation
12:30 pm - 1:30 pm	Lunch
1:30 pm - 3:30 pm	Session 2.1: Intelligent Control Systems and Optimization
3:30 pm - 4:00 pm	Cofee Break
4:00 pm - 6:00 pm	Session 3.1: Machine Learning

June 10, 2022

Time (GMT+3)	VROOM1	VROOM2	VROOM3
10:00 am - 10:30 am	Invited Speaker (VROOM2) Serhii Yevseiev , National Technical University "Kharkiv Polytechnic Institute", Ukraina		
10:30 am - 11:00 am	Cofee Break		
11:00 am - 12:30 pm	Session 4.1: Mixed	Session 4.2: Mixed	Session 4.3: Mixed
12:30 pm - 1:30 pm	Lunch		
1:30 pm - 3:30 pm	Session 5.1: Human-Computer Inter.	Session 5.2: Mixed	Session 5.3: Machine Learning
3:30 pm - 4:00 pm	Cofee Break		
4:00 pm - 7:00 pm	Session 6.1: Mixed	Session 6.2: Mixed	Session 6.3: Intell. Control Syst. and Opt.

June 11, 2022

Time (GMT+3)	VROOM1	VROOM2	VROOM3	VROOM4	VROOM5
10:00 am - 10:30 am	Invited Speaker (VROOM1) M. Emir Koksal , University of Twente, Department of Applied Mathematics, Netherlands				
10:30 am - 11:00 am	Cofee Break				
11:00 am - 12:30 pm	Session 7.1: Intell. Control Syst. and Opt.	Session 7.2: Human-Computer Inter.	Session 7.3: Human-Computer Inter.	Session 7.4: Human-Computer Inter.	Session 7.5: Human-Computer Inter.
12:30 pm - 1:30 pm	Lunch				
1:30 pm - 2:00 pm	Invited Speaker (VROOM2) Abdulhamit Subasi , University of Turku, Finland				
2:00 pm - 2:30 pm	Cofee Break				
2:30 pm - 4:30 pm	Session 8.1: Mixed	Session 8.2: Machine Learning	Session 8.3: Robotics-Mechatronics and Automation	Session 8.4: Mixed	Session 8.5: Mixed
4:30 pm - 5:00 pm	Cofee Break				
5:00 pm - 7:00 pm	Session 9.1: Machine Learning & Data Mining	Session 9.2: Intell. Control Syst. and Opt.	Session 9.3: Machine Learning	Session 9.4: Machine Learning	Session 9.5: Machine Learning

Session 1.1. (VROOM2)		Date: June 9, 2022
Chair: Ebubekir Yasar		Time (GMT+3): 10:00 am - 12:30 pm
Paper	Author (s)	
47 - Obstacle Avoidance in Mobile Robots In RGB-D Images Using Deep Neural Network and Semantic Segmentation	Abdulrahman Abdulwahab AL-adhami , Galip Cansever	
350 - Shared-Control Robotic Manipulation in Virtual Reality	Shiyu Xu, Scott Moore, Akansel Cosgun	
14 - Robot Localization and Trajectory Planning Using ANN	Qabas Omar Almutalbi , Sefer Kurnaz	
307 - Grasping of Li-ion Batteries via Additively Manufactured Soft Gripper and Collaborative Robot	Savas Dilibal , Emre Tugberk Gulnergiz, Niccolo Pagliarani, Enrico Donato, Francesco Iori, Elisa Setti, Egidio Falotico, Matteo Cianchetti	
389 - Project Averroes: An Effective, Durable, and Consumer-Oriented Solution to the Locomotion Problem in VR Environments	A. M. Al-Ajmi, G. A. Thiab, F. M. Hamoudah, N. M. Mahmoud, S. E. Esmaeili , F. M. Badreddine	
390 - Pothole Patrol: An autonomous Vehicle for Locating and Repairing Potholes	Bader Ali, Deema Thahir, Khaled Al-Karmi, Seyed Esmaeili , Amal Alateyah	
391 - VGRIP: Virtual Reality in a GRIP	Abdulrahman Al-Kandari, Al-Zain AlMuzaini, Alaa Al-Humaidan, Hind Al-Jouhari, Seyed Esmaeili , Ali Behiry	
403 - Model Based Detection Scheme For Denial Of Service Attack On Lane Keeping Assist System	Shifat Kayser , Furkan Heybetli, Mustafa Sinasi Ayas	
388 - On cobot programming in industrial tasks: a test case	Yevheniy Dmytriyev , Marco Carnevale, Hermes Giberti, Giovanni Todeschini	
230 - Reciprocal Altruism-based Path Planning Optimization for Multi-Agents	Ali Maeedi , Muhammad Umer Khan, Bülent İrfanoğlu	
315 - Analysis of Mechanical Operations in a Type of Machining Centers	Marin Zhilevski , Mikho Mikhov	

Session 2.1. (VROOM2)		Date: June 9, 2022
Chair: Ebubekir Yasar		Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)	
423 - Quality Evaluation In Guavas Using Deep Learning Architectures : An Experimental Review	Tanupriya Choudhury , Hussain Falih Mahdi, Archit Agarwal, Arnav Chakraborty, Arunachalaeshwaran V R, Tanmay Sarkar, Ravi Tomar	
168 - Efficient Extreme Gradient Boosting Based Algorithm for QoS Optimization in Inter-Radio Access Technology Handoffs	Mustafa Al Sibahee, Vincent Nyangaresi , Junchao Ma, Zaid Abduljabbar	
184 - Development of architecture of intellectual information system supporting decision-making for health of sportsmen	Nodir Rahimov, Malika Doshchanova, Oybek Primqulov , Jurabek Quvondikov	
107 - Evaluation of Efficiency of Application of Functionally Sustainable Generalized Information System of the Enterprise	Oleksandr Laptiev , Valentyn Sobchuk, Yurii Shcheblanin, Oleg Barabash, Andrii Musienko, Valerii Kozlovskiy	
122 - The integration of Wireless Sensor Networks, Mobile Networks and Cloud Engineering for a decision support system – A Systematic Literature Review	Luan Gashi , Artan Luma, Ylber Januzaj	
219 - A Review of Multilayer Thin Film Filters in the Infrared Region	Younis Younis , Mohammad Yaseen, Khaled Mohamed	
110 - Automatic generation of user-sensitive and application-sensitive self-adapted UI system for smartphone applications	Zule Ruan , Yoshiaki Fukazawa, Junko Shirogane	
289 - Indexing Information in a Parking Guidance System	Neyko Neykov , Svetlana Stefanova	

Session 3.1. (VROOM2)		Date: June 9, 2022
Chair: Ebubekir Yasar		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	
45 - Internet of Thing for Personal Healthcare Monitoring System	Abdulkarem Basil Abdulkarem, Alaa Hashem Mikhliif Saud, Mustafa Monaf Abd_Allatef, Ahmad Mutea Abdallah sauod, Mohammed Basil Abdulkareem, Ahmed Muhi Shantaf	
60 - American Sign Language Recognition using YOLOv4 Method	Ali Mahmood AL-Shaheen , Mesut Cevik, Alzubair Alqaraghuli	
28 - Internet of Things: Security Threats and Proposed Solutions	Ali Saadoon Ahmed , Sefer Kurnaz	
114 - The Internet of Things: a domain-specific security requirement classification	Arafat Mukalazi , Ali Boyaci	
260 - Three Phase Fault Location and Nature Determination Using Smart Intelligent Technique	Ayoob Gassim Mohammed , Zaid Hamodat, Yazen Fawwaz Hammoodi	
222 - Modified Lightweight AES based on Replacement Table and Chaotic System	Dalal N. Hammod	
97 - The Quality Analysis of Smart Zoning Application Web Using Webqual and Importance Performance Analysis Method, Case Study Election of Senior High School in Depok	Diana Ikasari , Widiastuti Widiastuti, Rheza Andika	
365 - A Neural Network Approach for Mechanical Components Cost Estimation	Andrea Spini , Luca Palamara, Giovanni Todeschini, Hermes Giberti	
29 - Car Control by using brain waves and Arduino based Mind wave Mobile	Khalid Alsammorraie , Timur Inan	
4 - Effect Sybil attack on security Authentication Service in VANET	Mustafa Maad Hamdi, Majed Dhafer Majed , Ahmed Shamil Mustafa, Sami Abduljabbar Rashid, Ahmed Jama Ahmed, Ahmed Muhi Shantaf	
326 - A Technique of Risk Management for Medical Laboratory Equipment	Neven Saleh, Omnia Gamal , Mohamed Eldosoky, Abdel Rahman Shaaban	

Invited Speaker		
Serhii Yevseiev		
"The Concept of Security of Sociocyber-Physical Systems"		
June 10, 2022	Time (GMT+3): 10:00 am - 10:30 am	Chair: Ebubekir Yasar (VROOM2)

Session 4.1. (VROOM1)		Date: June 10, 2022
Chair: Turgut Ozseven		Time (GMT+3): 11:00 am - 12:30 pm
Paper	Author (s)	
402 - Machine Learning Based Human Face Recognition For Attendance System	Abdulrahman Cenadi , Farouq Ahmad, Khaled Al Hajji	
15 - A review of Wireless Sensor Network	Ahmed Jamal Ahmed , Sami Abduljabbar Rashid, Mustafa Maad Hamdi, Ahmed Shamil Mustafa, Mustafa Sabah Noori	
32 - WSN Application Based on Image Compression Using AHAAR Wavelet Transform	Ahmed Jamal Ahmed , Mustafa Maad Hamdi, Ahmed Shamil Mustafa, Sami Abduljabbar Rashid	
197 - Headhunting System Using Blockchain Technology	Md Mijanur Rahman, Md Sharif Uddin Siddiqe , Aftab Uddin	
79 - Local Feature Methods Based Facial Recognition	Mohammed Ahmed Talab , Neven Ali Qahraman, Mais Muneam Aftan, Alaa Hamid Mohammed	
6 - Channel Estimation using LS and MMSE Channel Estimation Techniques for MIMO-OFDM Systems	Ali Saadoon Ahmed , Mustafa Maad Hamdi, Mohammed Salah Abood, Arshad Mohammed Khaleel, Maha Fathy, Shihab Hamad Khaleefah	
112 - A Combined Method for Object Detection Under Rain Conditions Using Deep Learning	Faris K. AL-Shammri , Adnan Saher Mohammed	
63 - Creating One Time Virtual Encrypted Identification Number at The ATM	Fatma Aldoghje , Abdullah Jinah, Muhammad Ilyas	

Session 4.2. (VROOM2)		Date: June 10, 2022
Chair: Ebubekir Yasar		Time (GMT+3): 11:00 am - 12:30 pm
Paper	Author (s)	
370 - Approach for Implementation of Vending Machine through Verilog HDL	Marin Zhilevski , Vladimir Hristov	
41 - Performance Analysis of BSN Using ACK-TDMA Techniques for Effective Communication	M. Mohammed Mustafa, Ahmed A. Khalifa, Korhan Cengiz	
61 - The cost of man and machine labor in 21-st century	Vesselin Chobanov, Ivailo Hardalov	
282 - Cyber Security impact on energy systems	Vesselin Chobanov, Ivan Doychev	
346 - Cost-related industrial project design using simulation, layout design and an ERP system	Miroslav Malaga, Tomáš Broum , Zdeněk Ulrych	
305 - Forecasting Annual Solar Power Output From Geographic Location	Nayyef Sami Nayyef Al-Dabbagh , Sura Saadi Jaafar Al-Musawi, Zaid Hamodat	
113 - A survey on Software-defined Wide Area Network (SD-WAN) architectures	Khirota Gorgees Yalda , Diyar Jamal Hamad, Nicolae Tapuş	
121 - Cyber Security standards for the Industrial Internet of Things (IIoT)– A Systematic Review	Atdhe Buja , Marika Apostolova, Artan Luma, Ylber Januzaj	

Session 4.3. (VROOM3)		Date: June 10, 2022
Chair: Sadik Onal		Time (GMT+3): 11:00 am - 12:30 pm
Paper	Author (s)	
408 - A Deep Learning Based Object Detection System For User Interface Code Generation	Batuhan Aşiroğlu , Sibel Senan, Pelin Görgel, M. Erdem Isenkul, Tolga Ensari, Alper Sezen, Mustafa Dağtekin	
409 - A Two-Dimensional Fuzzy Risk Assessment Model For Occupational Health And Safety Evaluations	Münevver Yakut , İhsan Kaya, Emine Bozkuş	
413 - A Comparative Study Of Heart Disease Prediction Using Machine Learning Techniques	Berke Akkaya, Ersin Sener , Cem Gursu	
416 - Learning Hand-Crafted Features For K-NN Based Skin Disease Classification	Elif Kanca , Selen Ayas	
95 - Variable Length Optimization Based on Integrated Particle Swarm Optimization for Data Gathering in Wireless Sensor Networks	Kareema Al-Jumaah , Timur Inan	
194 - Automatic Speech Recognition (ASR) System using convolutional and Recurrent neural network Approach	Khalid Waleed Al-Mansoori, Muhammet Çakmak	
80 - Sentiment Analysis about Turkish TV Series with Web Scraping	Zeliha Ergul Aydın	
377 - An Ontology Model Oriented to the Career Planning of University Students	Zeynep Altan	

Session 5.1. (VROOM1)	Date: June 10, 2022
Chair: Turgut Ozseven	Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)
11 - Efficient WSN Routing Using Bootstapped PSO Clustering	Ahemd Thae Obaid , Muhammad Ilyas
146 - Artificial Intelligence Based Model for Covid-19 Detection by Analyzing X-Ray Images: Researches, challenges and Future Directions	Isa Avci, Ahmed Alzabaq
37 - A Content Analysis of the Research Approaches in Music Genre Recognition	Turgut Özseven , Beyza Esin Özseven
211 - A Review of Infant Cry Recognition and Classification based on Computer-Aided Diagnoses	Turgut Özseven
51 - Novel Image Caption System Using Deep Convolutional Neural Networks (VGG16)	Alaa Sabeeh Salim, Mohammed Basil Abdulkareem, Yarub Essam Fadhel, Abdulkarem Basil Abdulkarem, Ahmed Muhi Shantaf
419 - Airport Passengers Gate Checking Up System For Infection With COVID-19 According To Probability Of Symptoms Risk Factors	Reem Abbas , Rawaa Kadhim
393 - Socio-Cyber-Physical Systems Security Concept	Serhii Yevseiev , Stanislav Milevskiy, Leonid Bortnik, Voropay Alexey, Kyrlyo Bondarenko, Serhii Pohasii
325 - Unsupervised Classification of Covid-19 using Chest X-rays with Convolutional Autoencoder	Sertan Serte , Serag Mohamed Akila, Khaled Almezghwi
308 - Mobile Educational Games User Experience Elements: A Systematic Literature Review	Sharifah Nurulhikmah Syed Yasin , Roslina Ibrahim, Rasimah Che Mohd Yusoff
18 - Resource Allocation In Cloud-Fog Systems Using Genetic Algorithm	Sohaib Naseer Lateef Al-Abbasi , Galip Cansever

Session 5.2. (VROOM2)	Date: June 10, 2022
Chair: Ebubekir Yasar	Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)
36 - Research on Filtering Feature Selection Methods for E-Mail Spam Detection by Applying K-NN Classifier	Tsvetanka Georgieva-Trifonova
380 - Design of a Sensor Measuring Station for Pasture Parameters Remote Monitoring	Nikolay Valov, Boris Evstatiev, Tsvetelina Mladenova , Irena Valova, Seher Kadirova, Nikolay Markov, Svetoslava Stoycheva, Tatiana Atanasova, Ivan Varlyakov
216 - Selection of Ad Blockers According to Their Type of Installation	Georgi Shipkovenski, Teodor Kalushkov , Emiliyan Petkov, Rositsa Radoeva, Donika Valcheva
217 - An Approach for Increasing the Personalization in a Bledned Learning Environment	Donika Valcheva, Teodor Kalushkov , Emiliyan Petkov, Rositsa Radoeva, Georgi Shipkovenski
10 - ML/AI Empowered 5G and beyond Networks	Mustafa Al-Khafaji , Lina Elwiya
167 - AI(Artificial Intelligence) Determination of Functional Ambulatory Category of Stroke Patients	Shi-Uk Lee , Jeong-Hyun Kim, Seong-Ho Jang
399 - ServPort - Process Reengineering in Optimization of The Process in Vehicle Service Station	Ravindu Withana , Shivanthi Fernando, Ravindu Nethsara, Chalaka Jayasinghe, Shashika Lokuliyana, Thilmi Kuruppu
225 - Overview On Hardware Characteristics Of Virtual Reality Systems	Rositsa Radoeva , Emiliyan Petkov, Teodor Kalushkov, Donika Valcheva, Georgi Shipkovenski

Session 5.3. (VROOM3)		Date: June 10, 2022
Chair: Sadik Onal		Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)	
105 - Diagnosing Cervical Cancer Using Machine Learning Methods	Derya Yeliz Coşar Soğukkuyu , Oğuz Ata	
281 - The Art of Machine Learning as Fashion Stylish for Designing Clothes	Erencan Oymak , Özgür Koray Şahingöz, Duygu Keydal, Kadir Batuhan Demir, Güray Yılmaz	
284 - Machine Learning Based Heart Disease Detection System	Arif Tanzer Kırar	
288 - Discrimination of Electrical Motor Faults in Thermal Images by using First-order Statistics and Classifiers	Gönül Sakallı , Hasan Koyuncu	
291 - A Deep Learning Based Android Malware Detection System with Static Analysis	Esra Calik Bayazit , Ozgur Koray Sahingoz, Buket Dogan	
371 - Deep Spectral Clustering of Single-Cell RNA-seq Data	Mert Şener , Güleser Kalaycı Demir	
378 - Author Identification with Machine Learning Algorithms	İbrahim Yülüce , Feriştah Dalkılıç	
383 - Weeds Detection using Deep Learning Methods and Dataset Balancing	Fadıl Arıkan , Şebnem Bora, Aybars Uğur	

Session 6.1. (VROOM1)		Date: June 10, 2022
Chair: Turgut Ozseven		Time (GMT+3): 4:00 pm - 7:00 pm
Paper	Author (s)	
261 - EEG Based Environment Classification During Cognitive Task of Multiple Sclerosis Patients	Seda Şaşmaz Karacan , Hamdi Melih Saraoğlu, Sibel Canbaz Kabay, Gönül Akdağ, Cahit Keskinliç, Mustafa Tosun	
262 - Lyapunov Control Method Based Optimal Control of Alpha-Type Stirling Motor	Mahmut Azanpa , Berkem Vural, Ali İhsan Tas, Ali Burak Ozden, Mehmet Iscan	
181 - Voice Encoding for Wireless Communication Based on LPC, RPE, and CELP	Mohamed Muthanna Al-Heeti , Jamal A. Hammad, Ahmed Shamil Mustafa	
277 - Optimally Tuned PI Controller Design for V/f Control of Induction Motor	Burcu Keskin , İlyas Eminoğlu	
279 - Covid-19 Disease Detection with Improved Deep Learning Algorithms on X-Ray Data	Nahide Zeynep Cicekli , Gozde Karatas Baydogmus	
280 - The Effect of Loss and Optimization Functions on Bitcoin Rate Prediction in LSTM	Berke Kaan Kirci , Gozde Karatas Baydogmus	
299 - Roblox Studio İle Mühendislik Eğitimi İçin Deneyim Geliştirme	Onur Yolal	
322 - Electrical Architecture of the Recovery System of a High Powered Rocket with Payload	Muhammed Mirac Ozer , Murat Bakirci	
19 - A study review on Gray and Black Hole in Mobile Ad Hoc Networks (MANETs)	Mustafa Maad Hamdi, Aya Fouad Flaih, Mekat Laith Jameel , Ahmed Shamil Mustafa, Aymen Jalil Abdulelah, Mohammed Ahmed Jubair	
323 - Regression and Discrimination Performance of Terpenoid Expression via Cannabis Sativa Cannabinoids	Nazlı Turhan , Ahmet Haşim Yurttakal	
324 - Bandwidth and Gain Enhancement using FSS on CPW-fed Rectangular Patch Antenna for 5G mm-Wave Applications	Seda Habergoturen Ates , Nursel Akcam, Tayfun Okan	

Session 6.2. (VROOM2)		Date: June 10, 2022
Chair: Ebubekir Yasar		Time (GMT+3): 4:00 pm - 7:00 pm
Paper	Author (s)	
337 - Off-Grid Hybrid (PhotovoltaicWindBattery) Microgrid Development An Experimental Design and Analysis	İbrahim Berkin Kaya, Baran Kalaycı, Buğra Karakoç , Erkan Karaosmanoğlu, Ali Durusu, Bedri Kekezoğlu	
338 - Digital Implementation of Level-Shifted Pulse Width Modulation for Multilevel Converters	Fatih Eroglu , Ahmet Mete Vural	
340 - Efficient Hardware Optimization for CNN	Seda Guzel Aydin , Hasan Sakir Bilge	
356 - An Evaluation of Renewable Fraction Using Energy Storage for Electric Vehicle Charging Station	Musa Terkes , Said Mirza Tercan, Alpaslan Demirci, Erdin Gokalp	
367 - Bit Error Rate Performance Analysis of LIS Aided Generalized Frequency Division Multiplexing	Ramazan Aydemir , Hacı İlhan	
40 - Application to Send Certificates of Participation in The Workshops of Al-Maarif University College	Ali Tariq Radeef, Mohammed Rabeea Hashim Al-Dahhan , Saja Jabar Mohammed	
375 - LoRa Communication Evaluation Based Building Density in Ankara City	Bilal Babayiğit, Fatma Doğan	
258 - Localization and Identification Of UAVS System Using Image Processing	Amer Mukhlif Hamad , Yaser Alaiwi	
304 - Measuring Signals Synthesis Method on the Basis of Triangular Time-Pulse Modulation for Control of Radiotechnic Systems Technical Condition	Sergiy Tymchenko, Volodymyr Kutsenko, Serhii Yevseiev, Stanislav Milevskiy, Serhii Pohasii	
382 - EMI Filter Design with Passive Components for Power Line	İrem Azgın, Ayşe Inan , Sıla Celiktas, Kemal Burak Acar, M. Cengiz Taplamacioglu, Merve Demirci	
387 - Determination of photovoltaic inverter ratio minimizing energy clipping for electric vehicle charging stations under different solar radiations	Alpaslan Demirci , Zafer Ozturk, Said Mirza Tercan, İsmail Nakir	
412 - Digital Image Encryption Using Elliptic Curve Cryptography: A Review	Muhammed Habek , Yasin Genc, Nilay Aytas, Ahmet Akkoc, Erkan Afacan, Erdem Yazgan	

Session 6.3. (VROOM3)		Date: June 10, 2022
Chair: Sadik Onal		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	
185 - Equivalent Consumption Minimization Strategy for Hybrid Electric Vehicle with Emission Assessment	Ozan Yazar , Serdar Coskun	
209 - LQR Control and Observer Design of a Magnetically Suspended Ball	Mehmet Karahan , Cosku Kasnakoglu	
331 - Comparison of Multi-Parent Crossover Operators for Feature Selection	Nazif Kaç , Berna Kiraz	
384 - Employing Equilibrium Optimizer in Two-Area Load Frequency Control for a TIDFF Controller Design	Alper Kemal Gulicer , Mustafa Sinasi Ayas	
3 - Detection of Involuntary Movement with Wearable Technology	Yasin Köseoğlu , Ali Boyacı	
385 - Hunger Games Search Algorithm for Model Order Reduction of Gas Turbine Power Plants	Alisan Ayvaz	
386 - Efficient Deployment of Wireless Sensor Nodes with Evolutionary Approaches	Sibel Birtane Akar , Hayriye Korkmaz, Özgür Koray Şahingöz	
5 - Layer-based Examination of Cyber Attacks in IoT	Ahmet Nusret Özalp , Zafer Albayrak, Muhammet Çakmak, Erdal Özdoğan	
201 - Automatic Segmentation of COVID-19 Infection on Lung CT Scans using Mask R-CNN	Emre Dandil, Mehmet Süleyman Yıldırım	
223 - High-Efficiency Dual Band Metamaterial Absorber For ISM Band Biosensor Applications	Bilal Tütüncü, Yunus Altıntaş , Serdal Karahan	

Invited Speaker

M. Emir Koksal

"Commutativity and its Use for Optimizing Performance of Cascade Connected Systems"

June 11, 2022

Time (GMT+3): 10:00 am - 10:30 am

Chair: Turgut Ozseven (VROOM1)

Session 7.1. (VROOM1)		Date: June 11, 2022
Chair: Turgut Ozseven		Time (GMT+3): 11:00 am - 12:30 pm
Paper	Author (s)	
26 - Flood Forecasting using Neural Network: Applying the LSTM Network in the MOSUL Region Iraq	Abdullahi Abdu Ibrahim , Ayad Khalaf Jirri	
249 - Control and Management of Solar PV Grid Using SCADA System	Abdulsalalm Bouaisha Abdulsalam , Hajir Adil Jasim Alsaadi, Zaid Hamodat	
22 - Design and Simulation of Smart Parking System using Image Segmentation and CNN	Ali Jameel Haji Alsaedi , Galip Cansever	
425 - Recommendation Systems on Twitter Data for Marketing Purposes using Content-Based Filtering	Ahmed Nihad Khorshed Albayati , Yasin Ortakci	
286 - Energy Management System Optimization for Grid Connected Microgrids in Presence of Energy Storage	Ariyan Roshany Tabrizi	
68 - Management of Hybrid Electric Microgrid Using Fuzzy Logic and Adaptive Neural Network	Ihsan Basil Aljanabi , Galip Cansever	
250 - Voltage Stability Control in Hybrid Systems Using AI	Fadhaa Zaid Khalaf Al-Gbur , Rasha Khalied Lrehaem Al Yosif, Zaid Hamodat	
Session 7.2. (VROOM2)		Date: June 11, 2022
Chair: Ebubekir Yasar		Time (GMT+3): 11:00 am - 12:30 pm
Paper	Author (s)	
58 - Multidisciplinary Evaluation Metrics for the Usability of Wearable Chairs	Yingyi Li , Jing Gan	
269 - Design of near infrared band pass multilayer thin film filter	Younis Younis , Mohammad Yaseen, Khaled Mohamed	
43 - Privacy Preserving Homomorphic Encryption in Cloud Storage	Zahraa Sabbar Lafta , Muhammad Ilyas	
397 - Situational Control of Cyber Security in Socio-Cyber-Physical Systems	Oleksandr Milov , Olha Korol, Vladyslav Khvostenko, Nataliia Zviertseva, Natalia Voropay	
351 - The Review for Visual Analytics Methodology	Zaifulasraf Ahmad, Suraya Yaacob , Roslina Ibrahim, Wan Farahwani Wan Fakhruddin	
376 - Development of a Soft Gripper Using a NonFluidic Compliant Mechanism	Andrew Nasif, Ayman Abbas , Anwar Sahbel	
272 - Evaluation of Cognitive Workload in Automated Drilling Processes for Aerospace Structures	Emilia Villani, Ivan Garcia Martinez	
158 - Components and model of implementation of a hand gesture recognition system	Ivan Ralev , Georgi Krastev	
Session 7.3. (VROOM3)		Date: June 11, 2022
Chair: Sadik Onal		Time (GMT+3): 11:00 am - 12:30 pm
Paper	Author (s)	
214 - Markov Zinciri Tabanlı Bir Araç Hız Tahmin Algoritması Tasarımı	Merve Nur Gül , Serdar Coşkun	
227 - A novel framework to electro-tactile display systems for the blind and visually impaired	Abdulkadir Dalgin, Mehmet Cem Catalbas , Ziya Telatar	
293 - Web accessibility performance analysis using web content accessibility guidelines and automated tools: a systematic literature review	Şevval Seray Macakoğlu , Serhat Peker	
320 - Human Action Recognition With Raw Millimeter Wave Radar Data	Doga Nalci , Yusuf Sinan Akgul	
341 - Machine Learning Attacks Against Internet of Things Devices	Ahmet Emre Ergün , Özgü Can	

Session 7.4. (VROOM4)	Date: June 11, 2022
Chair: Oğuzhan Pektezel	Time (GMT+3): 11:00 am - 12:30 pm
Paper	Author (s)
205 - Interaction Design for AI Systems: An oriented state-of-the-art	André Costa , Firmino Silva
368 - The Role of Machine Learning in the Healthcare Sector: A Roadmap to the Potential Prospects	Edmira Xhaferra , Florije Ismaili
231 - Task and Process Capturing Toolkit using GUI Automation	Hiruni Piyumika Bellanthudawa , Ravindu Lakshan Perera, Nipun Dimantha Hevavitharana, Kavindu Malshan Ariyasinghe, Jagath Wickramarathne, Jeewaka Perera
208 - Standardization of Humanitarian Project Monitoring and Evaluation using Semantic Web	Wafaa Ibrahim , Melike Sah
401 - The Impact of Technology Readiness on User Acceptance of Government Cloud Computing Services	Mohd Talmizie Amron , Roslina Ibrahim, Nur Azaliah Abu Bakar
53 - Performance Evaluation of Quality of Service (QoS) by using Hybrid Algorithms in VANETs	Mustafa Maad Hamdi, Lukman Audah, Aymen Jalil Abdulelah, Hadeel Khalid Fakhri , Saja Fawzi Fakhri, Ahmed Shamil Mustafa

Session 7.5. (VROOM5)	Date: June 11, 2022
Chair: Saadaldeen Rashid Ahmed	Time (GMT+3): 11:00 am - 12:30 pm
Paper	Author (s)
71 - Developing an Artificial Intelligence based system to Detect Fraud and Corruption in Government	Ahmed Ramzi Rashid , Zaydon L. Ali, Ghassan Hamada Ali Alshmeel
74 - Classify Bird Species Audio by Augment Conational Neural Network	Hasan Abdullah Jasim , Saadaldeen Ahmed, Abdullahi Abdu Ibrahim, Adil Deniz Duru
87 - Blockchain: The Next Direction of Digital Payment in Drug Purchase	Israa Al_Barazanchi , Haider Rasheed Abdulshaheed, Zahraa A. Jaaz, Hassan Muwafaq Gheni, Yitong Niu, Hissah Almutairi, Erika Daghighi, Shihab A. Shawkat, Saadaldeen Rashid Ahmed
252 - Determining The Specific Activity of Radioactive Isotopes of, 226Ra,228A, 40K, 137Cs in The Soils of Selected Areas of Najaf city - Central Iraq	Master A.
297 - Design and fabrication of UWB microstrip Antenna on different substrates for wireless Communication system	Raad H. Thaher , Ola F. Ahmed, Saadaldeen Rashid Ahmed
255 - Impact of Annealing Temperature on Optical Properties of CeO2 Thin Films Deposition by Spin Coating Technique	Hamed A. Gatea , Rajaa K. Mohammad, Sarah M. Khalil
256 - Study Effect of Nitro group on Some Properties Polycyclic Aromatic Hydrocarbons (Anthracene; Phenanthrene)	Ali Kadhim Wadday , Sukaina Tuama Ghafel

Invited Speaker		
Abdulhamit Subasi		
"Artificial Intelligence in Brain Computer Interface"		
June 11, 2022	Time (GMT+3): 1:30 pm - 2:00 pm	Chair: Ebubekir Yasar (VROOM2)

Session 8.1. (VROOM1)	Date: June 11, 2022
Chair: Turgut Ozseven	Time (GMT+3): 2:30 pm - 4:30 pm
Paper	Author (s)
101 - Information Retrieval System of Arabic Alphabetic Characters by Using Hidden Markov Model	Atheel Sabih Shaker , Mahdi Fadil Khaleel, Omar Ayad Ismael, Rand S. Majeed, Mohammed Rashid Ahmed
129 - Structural health monitoring of oil pipeline using wireless sensor networks	Kadim K. Mohsen , Muqdad Kh. Asedkhan
130 - Climate Change Effect on The South Iraq Stormwater Network	Wadi Mohammed Wadi , Basim K. Nile, Waqed H. Hassan
131 - Hybrid Spectrum Technique for Independent Fine Adjustment of Either/Both Bandpass Edge in Spectrum Sensing Applications	Ahmed R. Al-Rubaye , Manal J. Al-Kindi
135 - Study the Effect of Dielectric Permittivity and Changing Substrates Material on Microstrip Patch Antenna	Zainab Abdullah Hassoun , Musa H. Wali, Hussein Ali Hussein, Noor Hanoon Haroon, Ahmed Alkhayyat
138 - New Design and Analysis Microstrip Triple Band-Notched UWB of Monopole Antenna	Sahar K. Hassan , Adheed H. Sallomi, Musa H. Wali
141 - A Mixed Hierarchical Topology To Ameliorate The Efficiency Of Wireless Sensor Networks: A Survey	Yasameen Khudhayer , Haydar Abdulameer Marhoon
144 - Optimization of Particle Swarms for Travelling Salesman Problem	Fadhel K. Jabor , Ghufuran A. Omran, Ammar Mhana, Hassan Muwafaq Gheni
156 - Homomorphic Encryption between Client and Cloud Server	Maha A. Sayal , Mali H. Hakem Alameady, Furkan Rabee

Session 8.2. (VROOM2)	Date: June 11, 2022
Chair: Ebubekir Yasar	Time (GMT+3): 2:30 pm - 4:30 pm
Paper	Author (s)
362 - Detecting Phishing Websites Using Machine Learning	Safa Alrefaai, Ghina Özdemir, Afnan Mohamed
49 - Quantum Computing and Artificial Neural Network for Classification and Time Series Prediction	Ali Saadoon Ahmed , Sefer Kurnaz
91 - FOG and Cloud Load Balancing Using Regression Based Recurrent Deep Learning Algorithm	Eftekhar Jameel , Abdullahi Ibrahim
64 - An Application of Linear Regression on Air Pollution Detection Using Deep Learning	M. Mohammed Mustafa , S. Umamaheswari, Ahmed A. Khalifa, Bassem Mokhtar, Korhan Cengiz
46 - Intrusion Detection in IoT Networks Using Feature Selection And SVM Classification	Maryam Ali Hussein Al-Balhawi , Galip Cansever
379 - Assessment of overvoltage and power losses in low voltage distribution networks with high photovoltaics penetration based on prosumers' self-consumption	Eihab E E Ahmed , Alpaslan Demirci
395 - Forecasting of Turkey's Total Electricity Consumption in Sectoral Bases Using Machine Learning Algorithms	Mhd Khair Hajar , Ilayda Ulku
88 - Flood Prediction Using Machine Learning Models	Tanvir Rahman, Miah Mohammad Asif Syeed , Maisha Farzana, Ishadie Namir, Ipshita Ishrar, Meherin Hossain Nushra
257 - Detection of Air Bubbles from Tire Shearography Images	Nagmy A. A. Saleh , Mehmet Zeki Konyar, Kaplan Kaplan, Semih Öngir, H. Metin Ertunç

Session 8.3. (VROOM3)	Date: June 11, 2022
Chair: Sadik Onal	Time (GMT+3): 2:30 pm - 4:30 pm
Paper	Author (s)
23 - Adaptive Sliding Mode Control of Coupled Tank System	Ozgur Geylani , Baris Ata
264 - Antenna Tracker Design with A Discrete Lyapunov Stability Based Controller for Mini Unmanned Aerial Vehicles	Mehmet Iscan , Ali Ihsan Tas, Berkem Vural, Ali Burak Ozden, Cuneyt Yilmaz
321 - Real Time Discrete Control Algorithm for Gimbal System Design in Mini Unmanned Aerial Vehicles	Ali Ihsan Tas , Mehmet Iscan, Ali Burak Ozden, Emre Cinar, Berkem Vural, Cuneyt Yilmaz
339 - Vision-Based Position Estimation with Markers For Quadrotors	Mücteba Uzunoğlu , Recep Behlül Şahin, Muharrem Mercimek
342 - Design of Mobile Robot with Klann Walking Mechanism to Overcome the Set and Step Type Obstacle	Abdullah Yöngül , Koray Kavlak
344 - Design of Quadruped Mobile Robot Design with Strandbeest Walking Mechanism to Overcome Concave, Convex and Ramp Type Obstacles	Koray Kavlak, Abdullah Yöngül
369 - Pozisyon ve Yönelim Tahmini için, Genişletilmiş ve Koksuz Kalman Filtresi Yaklaşımlarıyla Sensör Füzyonu Tasarımı	Hüseyin Şahin , Berkay Gürkan, Vasfi Emre Ömürlü
374 - Kinematics and Autoregressive Model Analysis of a Differential Drive Mobile Robot	Beyza Toptas , Murat Bakirci
381 - A fuzzy based model proposal on risk analysis for human-robot interactive systems	Emine Bozkuş , İhsan Kaya, Münevver Yakut

Session 8.4. (VROOM4)	Date: June 11, 2022
Chair: Oğuzhan Pektezel	Time (GMT+3): 2:30 pm - 4:30 pm
Paper	Author (s)
31 - Energy Efficiency Performance For Next Generation Wireless Communications	Ali Hameed Ahmed, Saif H. Alrubae, Hussein Kadhim Hasan , Alaa Hamid Mohammed
196 - Realization of a 16-bit MIPS RISC pipeline processor	Shawkat Khairullah
8 - Packet Header Classification for Network Intrusion Detection System based on FPGA	Yousif Hosain Dakhil , Mehmet Efe Özbek, Bilal R. AL-Kaseem
9 - Survey About Green IoT: Applications, Technologies, Challenges, and Future Directions	İsa Avcı, Yousif Hosain Dakhil
235 - Towards an Integrated Educational Games Evaluation Model: A Review of Study	Roslina Ibrahim , Husna Hafiza Azami, Suraya Masrom, Pritheega Magalingam, Suraya Yaacob, Nada Mansour Aljuaid
109 - Prediction of Tumor in Mammogram Images Using Data Mining Models	Noor Sarray , Timur Inan
224 - A Quick Performance Assessment for Artificial Electric Field Algorithm	Oluwatayomi Rereloluwa Adegboye , Ezgi Deniz Ülker
55 - Optimization of Elapsed Time of Automation for Large-Scale Traditional Networks and Proposing New Automation Scripts	Omar Waleed Jawad Altalebi , Abdullahi Abdu Ibrahim

Session 8.5. (VROOM5)	Date: June 11, 2022
Chair: Saadaldeen Rashid Ahmed	Time (GMT+3): 2:30 pm - 4:30 pm
Paper	Author (s)
149 - A GIS-based Network Analysis for Truck Vehicles in Baghdad's City Road Network	Khaldoon T. Falih , Abbas J. Mohammed, Ahmed Salman Hasan
229 - Energy-Saving Analysis of Wireless Body Area Network Based on Structural Analysis	Yitong Niu , Suhad Ibraheem Kadhem, Intisar A.M. Al Sayed, Zahraa A. Jaaz, Hassan Muwafaq Gheni, Israa Al_Barazanchi
81 - Performance Analysis of Hybrid MIMO/FSO Architecture Based on Optical Network	Basheer Mahdi , Essa Essa
82 - Radio over Fiber (RoF) Techniques: A Survey	Louay Younis , Essa Essa
241 - Study of Inelastic Coulomb Form Factors in 18O using the Radial Wave functions of Transformed Harmonic-Oscillator	Hasan F. Ojaimi , Arkan R. Ridha
243 - Phase-Coupled Synchronization with Optoelectronic Feedback	Rajaa H. Abudali , Sadeq Kh. Ajeel, Salam K. Mousa, Hussein B. Al Hussein
148 - Probability of false peaks circular and concentric array antennas direction	Sarmad K. D. Alkhafaji , Atheer Y. Oudah
180 - A New Microstrip Patch Antennas Design for GPS Applications	Raad Hamdan Thaher, Adil Sabeeh Abduljabbar , Maher Muayad Hefdhi, Ola Fawzi Ahmed, Suhier Hazem
198 - Effectiveness improvement of offset pulse position modulation system using reed–Solomon codes	Ahmed H. Albatoosh , Mohamed Ibrahim Shujaa, Basman M. Al-Nedawe
207 - Design and Fabrication of Single Reject Band Microstrip Antenna	Raad H. Thaher , Adil S. Abduljabbar
251 - Design and Implementation of DWDM-FSO System for Tbps Data Rates With Different Atmospheric Attenuation	Dehaq E. Mohsen , Ehsan M. Abbas, Maan M. Abdulwahid

Session 9.1. (VROOM1)	Date: June 11, 2022
Chair: Turgut Ozseven	Time (GMT+3): 5:00 pm - 7:00 pm
Paper	Author (s)
178 - Recognition and Classification of Facial expressions using Artificial Neural Networks	Bilal A. Tuama , Shihab A. Shawkat, Naeem A. Askar
199 - Harris Hawks Optimization Method based on Convolutional Neural Network for Face Recognition Systems	Sulayman Ahmed , Mondher Frikha, Taha Darwassh Hanawy Hussein, Javad Rahebi
259 - Image Classification Schemes for Statistical Moments of Wavelet and Gradient Matrix	Hashim Abbas , Fatima Ghali, Mutaz S. Alhassan
69 - A Descriptive Statistical Analysis of Overweight and Obesity Using Big Data	Salam Abdulabbas Ganim Ali, Hayder Rahm Dakheel AL-Fayyadh , Shaimaa Hadi Mohammed, Saadaldeen Rashid Ahmed Ahmed
127 - Big Data Processing with Hadoop and Data Mining	Mukalad Faleh Hassan , Mehdi Ebady Manaa
142 - Big data visualization: A survey	Luay Thamer Mohammed , AbdAllah A. AlHabshy, Kamal A. ElDahshan
157 - Survey On Recognition Hand Gesture By Using Data Mining Algorithms	Luay Ibrahim Khalaf , Salma Abdullah Aswad, Saadaldeen Rashid Ahmed, Bassma Makki, Mohammed Rashid Ahmed
182 - An optimal solution to the unit commitment problem for a hybrid power system	Marwan A. Mahmood , Kassim A. Al-Anbarri
232 - Effect of Electrode Type on Non-Thermal Plasma Production	Sajjad H.Maam Alhasani , Fadhil Khaddam Fuliful
204 - A Modification Strategy for Resistant Line Method in Exploratory Data Analysis	Qasim Nasir Husain, Marwan Ali Layl
218 - Extraction And Analysis Of Covid-19 Data Using Techniquis K-Means Clustering By Data Mining Techniques	Intisar N. Manea , Ghsuoon B. Roomi

Session 9.2. (VROOM2)	Date: June 11, 2022
Chair: Ebubekir Yasar	Time (GMT+3): 5:00 pm - 7:00 pm
Paper	Author (s)
248 - Enhancing Smart Grid Stability with The Implementation of Heuristic Algorithms	Qutada Jihad Abdulqader , Mshhain Ghazi Abdulazeez, Zaid Hamodat
246 - Optimal Voltage Stability from A Scada Based Solar Array and Using ACO Algorithm	Ramzi Qasim Mohammed , Zaid Hamodat
283 - Multi-Objective Optimisation Technique for Optimum Allocation of DG in Distribution Systems Using Weight Factors	Saman Kanzi
48 - Design of Electricity Theft Detection System Based on Supervised Learning	Shaymaa Mustafa Mohammed Alnaftchi , Abdullahi Abdu Ibrahim
215 - Control And Management of Microgrid Based Solar Charger Using GWO Algorithm	Mohammed Hikmat Al-bazi , Zaid Hamodat
247 - SVC Based Smart Grid Management of Renewable Energy Resources	Mohammed Kareem Mohammed , Seyef Mohamad Niyef, Zaid Hamodat
394 - A Grey Wolf Optimization Algorithm for Integrating Process Planning and Scheduling Problem	Muhammed Mahdi , Lamyaa Dawood
220 - Four-Stage Recursive Least Squares Algorithm for CARARMA Systems	Nasar Aldian Ambark Shashoa , Ibrahim N. Jleta, Abdulhakim Amer Agll, Abdurrezag S. Elmezughi
191 - Vehicles Speed Advisory: New Technique for Safer Highways' Overtaking	Hamid Shimal Aldulaimi , Bassem Ben Hamed

Session 9.3. (VROOM3)	Date: June 11, 2022
Chair: Sadik Onal	Time (GMT+3): 5:00 pm - 7:00 pm
Paper	Author (s)
296 - PopHybrid: a novel item popularity-aware hybrid approach for long-tail recommendation	Emre Yalcin
300 - A Deep Learning Model with Attention Mechanism for Dental Image Segmentation	Merter Hami Karacan , Sait Can Yücebaş
317 - Stress Detection with Deep Learning Using BVP and EDA Signals	Eda Eren , Tuğba Selcen Navruz
318 - Advantages of Using Edge Machine Learning for Communication Networks and Grasp Analysis in Robotic Hand Network Based on Federated AVG & Machine Learning	Emre Bacanlı , Hacı İlhan
333 - A Novel Triage System Design	Mehmet Erol , Furkan Ülengin, Hayriye Aktaş Dinçer
100 - Motor Imagery EEG Classification Using Algorithms and Machine Learning for ALS Disease	Mohammed Hameed , Timur Inan
65 - A Stack Based Multimodal Machine Learning Model for Breast Cancer Diagnosis	Safak Kayikci , Taghi Khoshgoftaar
345 - Daily Energy Usage Estimation Using Regression Based Ensemble Methods	Ömer Mintemur , İrfan Alp Gürkaynak
355 - Multiobjective Local Search Flower Pollination Algorithm Based on Decomposition	Tolga Altinoz
424 - Improved Next Item Recommendation for Long Tail Products with Machine Learning	Ahmet Zencirli, Harun Çetin, Nedim Tuğ, Engin Seven, Tolga Ensari
354 - Handwritten Digit Recognition using Spiking Neural Networks	Ozge Ozcan , Yesim Oniz, Mehmet Ayyildiz
366 - Machine Learning for E-triage	Şebnem Bora, Aylın Kantarcı, Arife Erdoğan, Burak Beynek , Bita Kheibari, Vedat Evren, Mümin Alper Erdoğan, Fulya Kavak, Fatmanur Afyoncu, Cansu Eryaz, Hayriye Gönüllü

Session 9.4. (VROOM4)	Date: June 11, 2022
Chair: Oğuzhan Pektezel	Time (GMT+3): 5:00 pm - 7:00 pm
Paper	Author (s)
330 - Comparative Analysis Between the Traditional and Nearest Centroid Methods in the K-Nearest Neighbor Algorithm	Tsvetelina Mladenova , Irena Valova
357 - Research on the Ability to Detect Fake News in Users of Social Networks	Tsvetelina Mladenova , Irena Valova
188 - Application of Nonhierarchical Cluster Analysis in the Machine Learning	Georgi Krastev, Valentina Voinohovska
414 - Deep Learning-Based Smart Infotainment System For Taxi Vehicles	Sachintha De Zoysa , Menura Dewalegama, Lakshani Kodikara, Janaka Dissanayake
73 - Freshness Classification of Hog Plum Fruit Using Deep Learning	Arunachalaeshwaran V. R. , Hussain Falih Mahdi, Tanupriya Choudhury, Tanmay Sarkar, Bikram Pratim Bhuyan
254 - Data Mining and RBF Neural Networks to Analyze Data from COVID-19 Patients and Predict New Cases Based on Symptoms	Mohammed Al-Sagheer, Faiez Alrufaye
298 - Patient gender identity information in Covid-19 severity detection on 3D chest CT scans via deep learning	Falana William , Ali Serener, Sertan Serte
421 - Machine Learning Algorithms In Bigdata Analysis And Its Applications: A Review	Farah Sami Khoshaba , Shahab Wahhab Kareem , Chnar Mustafa Mohammed, Hoshang Qasim Awla
66 - Anomaly detection of web traffic between IoT Devices	Ali Mohanad Faris AL-Sammarrie , Mesut Çevik
237 - GoogleNet CNN Classifications for Diabetics Retinopathy	Aiman Hasan Mohammed Mohammed , Mesut Çevik
111 - Eliminate Entanglement in Quantum Information Processing utilizing Hybrid Quantum-Classical Neural Networks	Ather Salah Hadi Al-isawi , Mesut Çevik

Session 9.5. (VROOM5)	Date: June 11, 2022
Chair: Saadaldeen Rashid Ahmed	Time (GMT+3): 5:00 pm - 7:00 pm
Paper	Author (s)
50 - Detecting autism spectrum disorder in children using eye tracking and machine learning	Zainab Mohammed , Qasim Mohammed
106 - Applications of Machine Learning in Battling Against Novel COVID-19	Rana Riyadh Saeed, Omar Mahmood Yaseen, Mohanad Mohammed Rashid , Mohammed Rashid Ahmed
118 - One-Shot Learning for Face Recognition, Method Comparison	Arkan Mahmood Albayati , Wael Chtourou, Faouzi Zarai
120 - Analysis Survey on Deepfake detection and Recognition with Convolutional Neural Networks	Saadaldeen Rashid Ahmed , Emrullah Sonuç, Mohammed Rashid Ahmed, Adil Deniz Duru
126 - Big Data Analysis for Healthcare Application using Minhash and Machine Learning in Apache Spark Framework	Wafaa S. Albaldawi , Rafah M. Almuttairi, Mehdi Ebady Mana
152 - Brain Tumor Detection and Classification Using Convolutional Neural Network (CNN)	Omar Dakkak , Fakhri Lahmood Hameed
210 - Real Time Traffic Violation System Vehicles to Cloud Data Exchange Based Driver Behavior	Laith A. Abdul-Rahaim , Hassan Muwafaq Gheni, Hussein Ali Ameen
234 - A Theoretical Study on the Optical and Electronic Properties of the PVA-TiO ₂ -Ag Structure	Fatema Sattar Jaber , Hayder M. Abduljalil
245 - Radioactivity levels in Sediment Samples of Tigris River in Baghdad governorate, Iraq	Akram A. Mohammed , Nada F. Tawfiq
150 - ECG -signal Classification Using efficient Machine Learning Approach	Haider. J. Abd , Heyam A. Marzog
153 - Building a Smart System for Preservation of Government Records in Digital Form	Abdullah Ibrahim Shaban , Marwan Abdulhussein Farhan, Saadaldeen Rashid Ahmed
155 - Extraction and Classification of Semantic Relations from News Recommendation	Ghayda Abdulaziz Al-Talib , Adnan Abdullah Atiyah