



ISMSIT
2021

5th International Symposium on Multidisciplinary Studies and Innovative Technologies

SYMPOSIUM PROGRAM

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October 21-23, 2021, Turkey

KEYNOTE SPEAKER

SESSION 1.1. (VROOM2)	Date: October 21, 2021
Chair: Ebubekir Yasar	Time (GMT+3): 9:00 am - 9:45 am
Abdulhamit Subasi <i>University of Turku, Finland</i>	

Network & Security

SESSION 2.1. (VROOM1)	Date: October 21, 2021	
Chair: Turgut Ozseven	Time (GMT+3): 10:00 am - 12:00 am	
Paper	Author (s)	Speaker
2 - Blokzincir Mimarisi ve Getirdiği Fırsatlar	Arif Furkan Mendi	Arif Furkan Mendi
13 - The Improvement needs in Blockchain Technology	Arif Furkan Mendi	Arif Furkan Mendi
24 - Blokzincir Tabanlı Arazi Kayıt Sisteminin Türkiye-Ankara'da Kullanımı	Arif Furkan Mendi	Arif Furkan Mendi
196 - Enriching the Open Provenance Model for a Privacy-Aware Provenance Management	Dilek Yılmaz Demirel, Özgü Can	Dilek Yılmaz Demirel
221 - Wireless Communication Protocols for Project Developers in IoT Applications	Fatih Topaloğlu	Fatih Topaloğlu
90 - Dağıtık Defter Teknolojileri ve Uygulama Alanları Üzerine Bir İnceleme	Emre Şafak, Çağlar Arslan, Mesut Gözütok, Tacettin Köprülü	Emre Şafak
310 - Development and Evaluation of Fire Resistant Railway Signalling Cable	Selim Hartomacioğlu, Kamil Mutlu	Kamil Mutlu
259 - A Brief Review of Path Loss Models for mmWave Channels	Nermin K. A. Hamdan, Begüm Korunur Engiz	Nermin K. A. Hamdan
322 - Human Identification With Finger Vien Image Using Deep Learning	Zinah Khalid Jasim Jasim, Alaa Hamid Mohammed, Lina Elwiya, Baraa Dhafer Al-Jabbari, Haitham Alhaji	Alaa Hamid Mohammed
323 - Retinal Fundus Images Of Optical Disk Detection	Lina Elwiya, Alaa Hamid Mohammed, Zinah Khalid Jasim Jasim	Alaa Hamid Mohammed

Machine Learning

SESSION 2.2. (VROOM2)	Date: October 21, 2021	
Chair: Ebubekir Yasar	Time (GMT+3): 10:00 am - 12:00 am	
Paper	Author (s)	Speaker
70 - Financial Risk Estimation with KNN Classification Algorithm on Determined Financial Ratios	Oğuzcan Uludağ, Arif Gürsoy	Oğuzcan Uludağ
166 - Representation Learning based on Clothing MetaData for Outfit Recommendation System	Ahmet Dünder, Arzu Kakişım	Ahmet Dünder
37 - Single Channel EOG Measurement System and Interface Design	Ertuğrul Furkan Savaştaer, Cengiz Tepe	Ertuğrul Furkan Savaştaer
64 - The Effects of Normalization and Standardization an Internet of Things Attack Detection	Gozde Karatas	Gozde Karatas
65 - Detecting Internet of Things Attacks by Using Hybrid Learning and Feature Selection Method	Gozde Karatas	Gozde Karatas
9 - Estimating and analyzing the spread of Covid-19 in Turkey using Long Short-Term Memory	Güneş Harman, Ahmed Al-Dulaimi	Güneş Harman
210 - The Prediction of Short-Term Bitcoin Dollar Rate (BTC/USDT) using Deep and Hybrid Deep Learning Techniques	Hasan Kilimci, Mehmet Yıldırım, Zeynep Hilal Kilimci	Hasan Kilimci
302 - Artificial Intelligence Chatbot Development in Customer Service Management	İsmail İşeri, Özkan Aydın, Kaan Tutuk	İsmail İşeri
254 - Agent Based Modeling and Simulation of the Olive Fly (Bactrocera Oleae) in Turkey	Simge Baba, Şebnem Bora	Simge Baba

KEYNOTE SPEAKER

SESSION 3.1. (VROOM2)	Date: October 21, 2021
Chair: Ebubekir Yasar	Time (GMT+3): 2:00 pm - 2:45 pm
Ahmet M. Elbir <i>University of Luxembourg, Luxembourg</i>	

Computer Vision & Image Processing

SESSION 4.1. (VROOM1)	Date: October 21, 2021	
Chair: Turgut Ozseven	Time (GMT+3): 3:00 pm - 4:45 pm	
Paper	Author (s)	Speaker
303 - Analysis and Improvement of Production Planning Processes in a Food Factory	Mehmet Savsar, Hasan Çiçek	Mehmet Savsar
304 - Effects of Maintenance Policies on Production Costs and System Reliability in a Canned Food Factory	Mehmet Savsar, Hasan Çiçek	Mehmet Savsar
309 - Adaptation of Gamification as a Man-Machine Interface to Franchise Management System	Yusuf Altunel, Burak Günaydın, Furkan Kalabalıkoğlu	Yusuf Altunel
161 - Segmentation of 3-Dimensional Point Clouds with Region Growing and Clustering Based Methods	Hüseyin Bozkurt, Rifat Kurban	Rifat Kurban
189 - A Hybrid Method Based on Feature Fusion for Breast Cancer Classification using Histopathological Images	Emre Dandıl, Ali Osman Selvi, Kerim Kürşat Çevik, Mehmet Süleyman Yıldırım, Süleyman Uzun	Ali Osman Selvi
190 - Automated Multiple Sclerosis Lesion Segmentation on MR Images via Mask R-CNN	Mehmet Süleyman Yıldırım, Emre Dandıl	Mehmet Süleyman Yıldırım
220 - Design and Implementation of Prototype for Portable and Wireless EEG Device	Hasan Bitar, Cengiz Tepe	Hasan Bitar

Machine Learning

SESSION 4.2. (VROOM2)	Date: October 21, 2021	
Chair: Ebubekir Yasar	Time (GMT+3): 3:00 pm - 4:45 pm	
Paper	Author (s)	Speaker
144 - A Novel Alternative Algorithm for Solving Linear Integer Programming Problems	Kadriye Simsek Alan	Kadriye Simsek Alan
143 - A Novel Alternative Algorithm for Solving Linear Integer Programming Problems with Four Variables	Kadriye Simsek Alan	Kadriye Simsek Alan
274 - A Novel Approach on Unsupervised Dynamic Background Extraction Using Autoencoders	Ali Nuri Şeker, Hüseyin Doğan, Muhammet Üsame Öziç	Ali Nuri Şeker
35 - Monoküler Derinlik Çıkarımı Sağlayan Bir Derin Öğrenme Modelinin Web Servisi Aracılığıyla Mobil Cihazlar Üzerinde Test Edilmesi	Alper Tunga Akın, Çetin Cömert	Alper Tunga Akın
252 - Synthetic Skin Cancer Image Data Generation Using Generative Adversarial Neural Network	Burak Beynek, Şebnem Bora, Vedat Evren, Aybars Uğur	Burak Beynek
117 - Multitype Learning via Multimodal Data Embedding	Ekrem Yıldız , Ege Burak Safdil, Furkan Arslan , Huseyin Fuat Alsan, Taner Arsan	Ekrem Yıldız

Intelligent Systems

SESSION 5.1. (VROOM1) Chair: Turgut Ozseven	Date:	October 21, 2021
	Time (GMT+3):	5:00 pm - 6:30 pm
Paper	Author (s)	Speaker
200 - Deep Learning-based Classification of Fundus Images for the Diagnosis of Diabetic Retinopathy	Yusuf Bahri Özçelik, Aytaç Altan	Yusuf Bahri Özçelik
74 - Conceptual Design of Python IDE with Embedded Turkish Spoken Chatbot that Analyzes and Corrects the Syntax Errors	Turgay Tugay Bilgin , Erdem Yavuz	Turgay Tugay Bilgin
207 - Derin Öğrenme Yöntemi ile İç Anadolu Bölgesi ve Çevresi Hava Kirliliği Tahmini	Sümeyye Aydın, Murat Taşyürek, Celal Öztürk	Sümeyye Aydın
212 - Zaman Serisi Tahmin Probleminin İmmün Plazma Programlama Kullanılarak Çözülmesi	Sibel Arslan	Sibel Arslan
250 - Optimal Tuning of PID Parameters for Magnetic Ball Levitation System Using Multi-objective Evolutionary Algorithms	Görkem Melih Kıranel, Banu Ataşlar-Ayyıldız	Görkem Melih Kıranel
100 - Multimodal Soft Tactile Display	Rıza İlhan, Tural Allahverdiyev	Rıza İlhan
160 - The Accessibility of Health Related Websites of Cyprus Island	Erkut Inan Iseri, Kaan Uyar, Ümit İlhan	Ümit İlhan
201 - Deep Learning Based Covid-19 Detection With A Novel CT Images Dataset: EFSCH-19	Oğuzhan Katar, Erkan Duman	Oğuzhan Katar

Machine Learning

SESSION 5.2. (VROOM2) Chair: Ebubekir Yasar	Date:	October 21, 2021
	Time (GMT+3):	5:00 pm - 6:30 pm
Paper	Author (s)	Speaker
18 - Improving Arithmetic Optimization Algorithm Through Modified Opposition-based Learning Mechanism	Davut Izci, Serdar Ekinci, Erdal Eker, Ahmet Dünder	Erdal Eker
19 - Assessment of Slime Mould Algorithm Based Real PID Plus Second-order Derivative Controller for Magnetic Levitation System	Davut Izci, Serdar Ekinci, Erdal Eker, Ahmet Dünder	Erdal Eker
232 - MR görüntüleri üzerinden Alzheimer hastalığının tespiti için Evrişimli Sinir Ağ tasarımı ve performans kıyaslaması	Furkan Atban, Hamza Osman İlhan	Furkan Atban
116 - Effects of Color Space Transformations on Classification Performance of Sperm Morphology	Mecit Yuzkat, Hamza Osman İlhan, Nizamettin Aydın	Mecit Yuzkat
186 - Makine Öğrenmesi Algoritmaları Kullanılarak Prostat Kanseri Tümör Oluşumunun İncelenmesi	Nesrin Aydın Atasoy, Ahmet Demiröz	Nesrin Aydın Atasoy
168 - Novel Metaheuristic Optimization Algorithms for Sidelobe Suppression of Linear Antenna Array	Ali Durmuş	Ali Durmuş

Network & Security

Network & Security		
SESSION 6.1. (VROOM1) Chair: Turgut Ozseven	Date:	October 22, 2021
	Time (GMT+3):	9:00 am - 10:30 am
Paper	Author (s)	Speaker
111 - Obtaining Cyber Threat Intelligence Data From Twitter With Deep Learning Methods	Uğur Tekin, Ercan Nurcan Yilmaz	Uğur Tekin
249 - A Framework for Localization and Clustering in IoT Enabled Wireless Sensor and Actor Networks	Zuleyha Akusta Dagdeviren	Zuleyha Akusta Dagdeviren
14 - Electronic Textiles: A Review	Şeyda Eyupoglu	Şeyda Eyupoglu
280 - Development of a Millimeter Wave Eight-Element Phased Array Antenna for 5G Mobile Communications	Sinan Aksimsek	Sinan Aksimsek
169 - A Stochastic Network-Interdiction Model For Cyber Security	Mehmet Ertem, Vicki Bier	Mehmet Ertem
112 - Design of novel flower of life shaped phased array antenna for 5G mm-wave communications	Seda Habergoturen Ates, Nursel Akcam	Seda Habergoturen Ates
187 - Effect of Benchmark Datasets on Protein Structure Prediction As a Concept	Nuh Azginoglu	Nuh Azginoglu

Computer Vision & Image Processing

Computer Vision & Image Processing		
SESSION 6.2. (VROOM2) Chair: Ebubekir Yasar	Date:	October 22, 2021
	Time (GMT+3):	9:00 am - 10:30 am
Paper	Author (s)	Speaker
245 - Effect of the Window Width while Processing Electromyography Signals in Gait Analysis	Mustafa Can Kurt, Burcu Tunç, Bora Büyüksaraç	Mustafa Can Kurt
251 - Using Innovative Technologies, Digital Media and Site Tools For Presentation and Sustainable Preservation of Cultural Heritage	Mirena Todorova-Ekmekci	Mirena Todorova-Ekmekci
106 - An Approach to Development of Virtual Reality Training Systems	Rositsa Radoeva, Emiliyan Petkov, Teodor Kalushkov, Georgi Shipkovenski	Teodor Kalushkov
97 - Accelerometer Sensor Network For Reliable Pothole Detection	Teodor Kalushkov, Georgi Shipkovenski, Emiliyan Petkov, Rositsa Radoeva	Teodor Kalushkov
316 - Deep Learning Methods on Emotion Detection: Input Data Perspective	Nasim Ahmadzadeh Nobari Azar, Parvaneh Esmaili	Nasim Ahmadzadeh Nobari Azar
151 - ARSci:The Framework for building Augmented Reality in Scientific Learning	Nutchapol Kitsathan, Petch Sajjacholapunt, Pisit Praiwattana	Nutchapol Kitsathan

Machine Learning

Machine Learning		
SESSION 6.3. (VROOM3) Chair: M. Emir Koksall	Date:	October 22, 2021
	Time (GMT+3):	9:00 am - 10:30 am
Paper	Author (s)	Speaker
163 - A Comparative Analysis On Term Weighting In Exam Question Classification	Anbuselvan Sangodiah, Tien Fui Yong, Ean Heng Lim, Norazira A Jalil , Ramesh Kumar Ayyasamy , Hui Meian Kok	Anbuselvan Sangodiah
228 - Student Performance Evaluation of Distributed Algorithms Assignment in an Undergraduate Algorithms Course	Anurag Dasgupta	Anurag Dasgupta
157 - Cross cultural usability testing of MOOC platform	Dženan Selmanović, Pinar Onay Durdu, Ahmet Sayar	Dženan Selmanović
197 - Effect of multimodal imaging on Covid-19 and lung cancer classification via deep learning	Falana William, Ali Serener, Sertan Serte	Falana William
199 - Deep learning classification of Covid-19, pneumonia, and lung cancer on chest radiographs	Falana William, Ali Serener, Sertan Serte	Falana William
231 - A Palm Vein Recognition Approach by Multiple Convolutional Neural Network Models	Felix Olanrewaju Babalola, Önsen Toygar, Yiltan Bitirim	Felix Olanrewaju Babalola

Data Mining & Big Data

SESSION 7.1. (VROOM1)		Date:	October 22, 2021
Chair: Turgut Ozseven		Time (GMT+3):	11:00 am - 12:15 am
Paper	Author (s)	Speaker	
134 - Sentiment Analysis of the Coronavirus Vaccine on Social Media	Ayhan Akkaya, Nagehan İlhan	Ayhan Akkaya	
284 - Assessment of the Compatibility of the Preliminary Analysis Results of the CAtenA Smart PCR Bioinformatics Program with the Expert Results in COVID-19 PCR Test Data Analysis	Ayşe Rüyeyda Uğur, Abdulkadir Taşdelen	Ayşe Rüyeyda Uğur	
54 - Automobile Price Prediction in Turkey Marketplace with Linear Regression	Mert Can Satioglu, Yilmaz Ar, Bulent Tugrul	Bulent Tugrul	
315 - Research Trends Analysis in Educational Journal Publications on Covid19 Using Descriptive and Text Mining Methods :Preliminary Analysis	Cansu Çiğdem Ekin, Mustafa Çakıcı, Egemen Şener, Sıla Türker, Sinem Altanlar	Cansu Çiğdem Ekin	
158 - Examining Public Opinion Regarding Online Learning during Covid19 Outbreak: Sentiment Analysis	Cansu Çiğdem Ekin	Cansu Çiğdem Ekin	
105 - A Framework Design for Heart Failure Detection: Analyzes on Features and Hybrid Classifiers	Hasan Koyuncu	Hasan Koyuncu	
276 - Artificial Intelligence Research on COVID-19 Pandemic: A Bibliometric Analysis	Abdulkadir Taşdelen, Ayşe Rüyeyda Uğur	Abdulkadir Taşdelen	

Machine Learning

SESSION 7.2. (VROOM2)		Date:	October 22, 2021
Chair: Ebubekir Yasar		Time (GMT+3):	11:00 am - 12:15 am
Paper	Author (s)	Speaker	
180 - Failure investigation of a prematurely fractured stainless steel bone fixation implant	Filiz Al-Shanableh, Muhammed Al Shanableh, Ali Evcil, Mahmut Ahsen Savas	Filiz Al-Shanableh	
135 - Hyperspectral Imaging for Honey Quality Detection using Siamese Neural Networks	Guyang Zhang, Waleed Abdulla	Guyang Zhang	
263 - Performance Evaluation of Classification Algorithms for Early Detection of Behavior Determinant Based Cervical Cancer	Kezban Alpan	Kezban Alpan	
115 - Experiments Focused on Exploration in Deep Reinforcement Learning	Martin Kaloev, Georgi Krastev	Martin Kaloev	
296 - Performance Enhancement of Cache Consistency Mechanism in Mobile Computing Environment	Nadjette Benhamida , Louiza Bouallouche-Medjkoune, Djamil Aïssani	Nadjette Benhamida	
239 - Physical and Digital Accessibility in Museums in the New Reality	Galina Bogdanova, Negoslav Sabev, Zhivko Tomov, Mirena Ekmekci	Negoslav Sabev	
227 - A Preliminary Study on Vowel Recognition via CNN for Disorder People in Malay Language	Nur Syakirah Muhammad Zamri, Nik Mohd Zarif Hashim, Abd Shukur Ja'afar, Abd Majid Darsono, Mohd Juzaila Abd. Latif, Parathythasan Rajaandra	Nik Mohd Zarif Hashim	

Control Systems

SESSION 7.3. (VROOM3)		Date:	October 22, 2021
Chair: M. Emir Koksall		Time (GMT+3):	11:00 am - 12:15 am
Paper	Author (s)	Speaker	
171 - Cognex 2D Camera Calibration as 6-axis Robot Tool Automation	Boris Kostov, Vladimir Hristov	Boris Kostov	
172 - Implementation of 3D measuring sensor for calibrating robot coordinate systems	Boris Kostov, Vladimir Hristov	Boris Kostov	
75 - The Recent Advances In IoT Based Smart Plant Irrigation Systems: A Brief Review	Dinya Aziz, Razieh Asgarnezhad, Sarmad Mahmood	Dinya Aziz	
32 - Development of Quadrotor Control under Wind Disturbance	Nurulain Humaira Hasnol Hady , Elya Mohd Nor, Azrena Abu Bakar, Siti Noormiza Makhtar	Elya Mohd Nor	
154 - Numerical Investigation of ECBM Recovery and CO2 Sequestration	Samuel Adamu Abubakar, Serhat Canbolat	Samuel Adamu Abubakar	

Control & Energy Systems

SESSION 8.1. (VROOM3)		Date:	October 22, 2021
Chair: M. Emir Koksal		Time (GMT+3):	1:30 pm - 3:30 pm
Paper	Author (s)	Speaker	
215 - Short-Term Individual Household Load Forecasting Framework Using LSTM Deep Learning Approach	Nourhan M. Ibrahim, Ashraf I. Megahed, Nabil H. Abbasy	Nourhan M. Ibrahim	
48 - The priorities and comfort of the smart home	Munteanu Angela	Munteanu Angela	
308 - Laboratory model of a Pumping Station	Marin Zhilevski, Petar Mutashki, Mikho Mikhov	Marin Zhilevski	
253 - Roof application of solar cells angularly and aesthetically	Lida Ebrahimi Vafaei	Lida Ebrahimi Vafaei	
132 - Calculating Boundaries in Methods of Determination of Fractal Dimension	Shahzoda Anarova, Elyor Saidkulov	Shahzoda Anarova	
66 - IoT based Indoor Air Quality Monitoring System to Improve the Health of Students in Gymnasium "Gjon Buzuku" Prizren	Lamir Shkurti, Azir Aliu, Faton Kabashi	Lamir Shkurti	
68 - Albanian News Category Predictor System using a Multinomial Naïve Bayes and Logistic Regression Algorithms	Lamir Shkurti, Faton Kabashi	Lamir Shkurti	

Control & Energy Systems

SESSION 9.1. (VROOM1)		Date:	October 22, 2021
Chair: Turgut Ozseven		Time (GMT+3):	4:00 pm - 6:00 pm
Paper	Author (s)	Speaker	
272 - Effect of the Modification on Karthaus-Fischer Voltage Multipliers for Single band GSM Energy Harvesting	Mahmut Aykaç	Mahmut Aykaç	
289 - Experimentally examination of thyristor controlled braking resistor (TCBR)	Mehdi Ayık, Ayetül Gelen	Mehdi Ayık	
226 - Nonlinear Modeling and Robust Control of a Quadrotor UAV under Uncertain Parameters and White Gaussian Noise	Mehmet Karahan, Ahmet Nuri Akay, Cosku Kasnakoglu	Mehmet Karahan	
318 - Performance Comparison of Machine Learning Algorithms in Textile Production Forecasting	Yasemin Çınar, Filiz Ersöz	Yasemin Çınar	
223 - Design Improvement of a Spoke-Type PMSG with Ferrite Magnets to Reduce Space Harmonics	Mehmet Semih Özdemir, Cemil Ocak, Adem Dalcalı	Mehmet Semih Özdemir	
104 - Orbital Characterization Study for the Hydrodynamic Micro Tweezers: Simulated Performance with an Active Particle	Senanur Düzenli, Jiyan Sürer, Ahmet Fatih Tabak	Senanur Düzenli	
79 - Trafo Merkezleri İçin Nesnelerin İnterneti Tabanlı Kontrol Sistemi Tasarımı Ve Uygulaması	Sercan Aygün, Abdullah Sevin	Sercan Aygün	
265 - Exploiting Agent-based Modeling and Simulation to Observe the Impact of Parental Attitudes on Behaviors of Schoolchildren	Şebnem Bora, Gizem Cengin Ünüvar, Sevcan Emek	Şebnem Bora	

Control & Energy Systems

SESSION 9.2. (VROOM3) Chair: M. Emir Koksal	Date:	October 22, 2021
	Time (GMT+3):	4:00 pm - 6:00 pm
Paper	Author (s)	Speaker
86 - Evaluation of Economic and Social Effects of Integrating a BMS System in Residential and Commercial Housing	Veselin Chobanov, Kalin Bojkov	Kalin Bojkov
170 - Approach for control of a Three-phase power converter with xPC Target Software	Kamen Hristov	Kamen Hristov
49 - ROS Validation for Fuzzy Logic Control Implemented under Differential Drive Mobile Robot	Jun Xuan Wong, Vimal Rau Aparow	Jun Xuan Wong
287 - Parametric study of solar adsorption cooling machine under the climatic conditions of Algeria	Adenane Ghrici, Mohammed Benramdane, Mea Ghernaout	Adenane Ghrici
27 - Comparison of the Impact Dynamics of A Compass Gait Biped	A. Oguzhan Ahan, Rahmi Guclu, Hakan Yazici	A. Oguzhan Ahan
183 - Microfabrication of Metal Oxide Based Gas Sensors	Alp Kılıç, Onur Alev, Serkan Büyükköse	Alp Kılıç
29 - Simple Synthetic ECG Generation via PWM Output of Microcontroller	Berranur Tepeyurt, Beyza Nur Usta, Ertugrul Karakulak	Berranur Tepeyurt
103 - Discrete-Model Based Analysis of Flyback Converter Circuit	Bilal Canol, Ali Bekir Yıldız	Bilal Canol
285 - Manufacturing-Production Systems and Their Importance - Evaluation of Flexible Manufacturing Systems (FMS)	Ayşenur Erdil	Ayşenur Erdil

Computer Vision & Image Processing

SESSION 10.1. (VROOM1) Chair: Turgut Ozseven	Date:	October 22, 2021
	Time (GMT+3):	6:15 pm - 7:30 pm
Paper	Author (s)	Speaker
55 - Sağlık Alanında Karma Gerçeklik	Dilara Doğan, Tolga Erol, Arif Furkan Mendi	Dilara Doğan
56 - Dijital Denekler	Arif Furkan Mendi, Dilara Doğan, Tolga Erol	Dilara Doğan
240 - Bulanık MULTIMOORA ve Bulanık COPRAS'a Dayalı Bulanık Çok Kriterli Grup Karar Verme Yöntemiyle Tersane İç Mekân Konumlandırma Teknolojisi Seçimi	İbrahim Çil, Hilal Kılınç, Ekrem Özgürbüz, Muharrem Ünver, Nalan Özkurt	İbrahim Çil
242 - Gemi İnşa Sektörünün Zorlukları Yeni Trendler ve SEDEF Tersanesinde Dijitalleşme Çalışmaları	İbrahim Çil, Fahri Arısoy, Hilal Kılınç, Erkan Uysal	İbrahim Çil
202 - Jetson Nano Üzerinde Çift Kameralı Uzaklık Hesaplama Uygulanması	Salih Palamut, Abdullah Elewi, Erdinç Avaroğlu	Salih Palamut
176 - Covid-19 Ultrasound image classification using SVM based on kernels deduced from Convolutional neural network	Saif Aljumaili, Adil Deniz Duru, Osman Nuri Uçan	Saif Aljumaili
182 - Covid-19 X-ray image classification using SVM based on Local Binary Pattern	Saif Aljumaili, Athar Al-azzawi, Adil Deniz Duru, Abdullahi Abdu Ibrahim	Saif Aljumaili
10 - Yapay Sinir Ağları Kullanarak Kan Testi Sonuçlarının Sınıflandırılması ve Kullanıcı Ara Yüzünün Geliştirmesi	Rıza İlhan, Büşranur Güdar	Rıza İlhan

Intelligent Systems

SESSION 10.2. (VROOM2) Chair: Ebubekir Yasar	Date:	October 22, 2021
	Time (GMT+3):	6:15 pm - 7:30 pm
Paper	Author (s)	Speaker
257 - An Efficient Transfer Learning-based Model for Classification of Brain Tumor	Alaa Alnemer, Jawad Rasheed	Alaa Alnemer
42 - Control of automatic fire extinguishing operation for 5 forest areas with SCADA	Aybike Üstündağ, Çetin Gençer	Aybike Üstündağ
294 - Assessment of Several PID Controllers Applied To DC Motors	Berke Mirac, Alperen Kılıç	Berke Mirac
136 - Classification of Dermoscopy Images with Feed Forward Neural Network, Decision Trees and Random Forest	Esra Öztürk, Semra İçer	Esra Öztürk
59 - Identify Type of Malware with Machine Learning based Ensemble Model	Recep Sinan Arslan	Recep Sinan Arslan
188 - Kötücül URL Filtreleme için Derin Öğrenme Modeli Tasarımı	Recep Sinan Arslan	Recep Sinan Arslan
30 - Hybrid Fuzzy Control of Semi-Active Suspension System Using Magnetorheological Damper	Serdar Coskun, Omer Ozgur	Serdar Coskun
288 - Real-Time Implementation of an Interval Type-2 Fuzzy Logic Controller for the Trajectory Tracking of an UAV	K. Oguz Canbek, Yesim Oniz	K. Oguz Canbek

Control Systems & Optimization

SESSION 10.3. (VROOM3) Chair: M. Emir Koksal	Date:	October 22, 2021
	Time (GMT+3):	6:15 pm - 7:30 pm
Paper	Author (s)	Speaker
218 - Feedback linearization control of a quadrotor	Ahmet Ermeydan, Aziz Kaba	Ahmet Ermeydan
12 - Performance Effective Battery Management System(BMS) Design of Mini Electric Vehicles	Bekir Emanet, İsmail Kıyak	Bekir Emanet
247 - Effect of high-temperature multi-pass ECAP on mechanical properties of quadruple copper alloys	Cagatay Elibol	Cagatay Elibol
236 - MIMO Antenna Array Optimization with Trust Region Framework Technique and SAR Calculation	Ahmet Turgut, Begüm Korunur Engiz	Ahmet Turgut
266 - An Assesment of Active Disturbance Rejection Control Technique From a Theoretical Perspective	Deha Eker, Necdet Sinan Özbek	Deha Eker
234 - Modeling and Simulation of a Wheelchair System with Motion Control	Efgan Uğur, Tolgay Kara, Abdulhafez Abdulhafez	Efgan Uğur
278 - Sis Hesaplama da Sis Düğümlerinin Rolü ve Mimari Yapısı	Fatih Topaloğlu	Fatih Topaloğlu
16 - Geometry Optimization of Wireless Capacitive Power Transfer Plates for Electrical Vehicle	Noor Qasim AL Saedi, Muhammet Tahir Guneser	Noor Qasim AL Saedi

Biotechnology // Energy Systems

SESSION 11.1. (VROOM1) Chair: Turgut Ozseven	Date:	October 23, 2021
	Time (GMT+3):	10:00 am - 12:00 am
Paper	Author (s)	Speaker
81 - Maya Ekstraktının Üretimi ve Gıda Endüstrisinde Kullanım Alanları	Handan Aydın Kaya, Cemal Kaya	Handan Aydın Kaya
175 - Inhibitory Activity Towards Angiotensin Converting Enzyme I of Alchemilla vulgaris	Ali Zeytunluoglu, Idris Arslan	Idris Arslan
306 - Naturally occurring ribosome inactivating proteins might be key molecules against Covid-19	Idris Arslan, Ozlem Aydın, Pelin Birdal	Idris Arslan
298 - Efficient bioconversion of hydroxycinnamic acids to their decarboxylation products in microorganisms	Hülya Akdemir Koç	Hülya Akdemir Koç
119 - Comparison of String and Central Inverter for 10MW PV Plant	Burak Atasoy, Suleyman Sungur Tezcan	Burak Atasoy
246 - Implementation of a Single-Phase Half-Bridge Grid-Connected PV Inverter	Eralp Şener, Gürhan Ertaşgın, Işıl Yazar	Eralp Şener
142 - Parallel IGBT Inverter for Three Phase Induction Motor	Mustafa Aktaş, Barış Çavuş, Faruk Sozen	Faruk Sözen
204 - Power Converter Topologies for PMSG Based Wind Energy Systems: Packed U Cell Multilevel Inverter Simulation	Habip Yusuf Hasırcı, Ahmet Mete Vural	Habip Yusuf Hasırcı

Computer Vision & Image Processing

SESSION 11.2. (VROOM2) Chair: Ebubekir Yasar	Date:	October 23, 2021
	Time (GMT+3):	10:00 am - 12:00 am
Paper	Author (s)	Speaker
25 - Robust and Fast Ship Detection In SAR Images With Complex Backgrounds Based on EfficientDet Model	Ali Can Karaca	Ali Can Karaca
47 - Robot Localization in RGB-D Images Using PCA And CNN	Alwaled Taha, Galip Cansever	Alwaled Taha
63 - Medical Image Enhancement using Guided Filtering and Chaotic Inertia Weight Black Hole Algorithm	Elham Pashaei	Elham Pashaei
113 - Convolutional Neural Network Methods Used in Computer Vision	Ferit Can, Can Eyüpoğlu	Ferit Can
255 - Performance Analysis of Immune Plasma Algorithm with Different Donor-Receiver Configurations	Sadat Duraki, Selçuk Aslan, Sercan Demirci	Sadat Duraki
260 - FPGA Design of a High- Resolution FIR Band-Pass Filter by Using LabVIEW Environment	Güner Tatar, Salih Bayar, İhsan Çiçek	Güner Tatar
238 - The Effect of Number of Postures on the Accuracy of COM Estimation via SESC Method	Elie Chebel, Bora Büyüksaraç , Burcu Tunç	Elie Chebel
38 - Investigation of Thermal Modeling For Underground Cable Ampacity Under Different Conditions of Distances and Depths.	Abdullah Ahmed Al-dulaimi, Muhammet Tahir Güneşer , Alaa Ali Hameed	Abdullah Ahmed Al-dulaimi

Machine Learning

SESSION 11.3. (VROOM3) Chair: M. Emir Koksal	Date:	October 23, 2021
	Time (GMT+3):	10:00 am - 12:00 am
Paper	Author (s)	Speaker
93 - Enhancement Trust Management in IoT to Detect ON-OFF Attacks with Cooja	Ali Hamid Farea, Kerem Küçük	Ali Hamid Farea
145 - Gesture Based System for User Interface Control	Georgi Krastev, Ivan Ralev	Ivan Ralev
244 - Image-Based Tomato Maturity Classification and Detection Using Faster R-CNN Method	Sigit Widiyanto, Dini Tri Wardani, Singgih Wisnu Pranata	Sigit Widiyanto
295 - A Framework for a Co-Creation Driven Research & Transfer Portal (CCDTP-Framework)	Matthias Baumgart, Claudia Hösel, Dominik Breck, Matthias Vodel, Christian Roschke, Marc Ritter	Matthias Baumgart
319 - Evaluating The Sunshine Duration Characteristics In Association With Other Climate Variables	Mine Tulin Zateroglu	Mine Tulin Zateroglu
320 - Statistical Models For Sunshine Duration Related To Precipitation And Relative Humidity	Mine Tulin Zateroglu	Mine Tulin Zateroglu
248 - A Feature-Weighted Rule for the K-Nearest Neighbor	Tsvetelina Mladenova	Tsvetelina Mladenova
78 - Machine Learning in Business: A Short Overview	Tsvetelina Mladenova	Tsvetelina Mladenova

Data Mining & Big Data

SESSION 12.1. (VROOM1) Chair: Turgut Ozseven	Date:	October 23, 2021
	Time (GMT+3):	1:30 pm - 3:30 pm
Paper	Author (s)	Speaker
321 - Fuzzy AHP and Fuzzy TOPSIS Hybrid Method for Positioning Technology Selection for Shipyards	Ibrahim Cil, Fahri Arısoy, Hilal Kilinc, Ekrem Özgürbüz, Ahmet Yunus Cil	Ibrahim Cil
270 - A Survey of Publish/Subscribe Middleware Systems for Microservice Communication	Seda Kul, Ahmet Sayar	Seda Kul
271 - Yapay Sinir Ağları, Destek Vektör Makineleri ve AdaBoost Algoritması ile Araç Sınıflandırmasının Değerlendirilmesi	Seda Kul, Ahmet Sayar	Seda Kul
153 - Big Data Analysis on Twitter for 2017 Turkey Referendum: TReferendum	Serkan Savaş	Serkan Savaş
71 - The Prediction of Student Grades Using Collaborative Filtering in a Course Recommender System	Merve Ceyhan, Savaş Okyay, Yusuf Kartal, Nihat Adar	Yusuf Kartal
214 - Integration of Sensor Fusion for Enhancing GPS Navigation	Habib Ghanbarpourasl, Gautham Gopan, Mohammed I Shafi, Mohammed Shalik Ershad, Mithileysh Sathiyarayanan	Habib Ghanbarpourasl
225 - Lisanssız Yazılım Kullanımı ve Farkındalık	Büşra Şahin Şimşek, İnan Güler	Büşra Şahin Şimşek

Network & Security

SESSION 12.2. (VROOM2)		Date:	October 23, 2021
Chair: Ebubekir Yasar		Time (GMT+3):	1:30 pm - 3:30 pm
Paper	Author (s)	Speaker	
206 - Develop Model for an Antenna with Dual Band Microstrip Patches	Ahmed Shamil Mustafa, Salah Ayad Jasim, Mustafa Maad Hamdi, Ahmed Shantaf	Ahmed Shamil	
138 - The low band in WiMAX with design H-Slot Microstrip Patch	Ahmed Muhi, Salah Ayad, Hussein Ali, Ahmed Shamil, Mustafa Maad, Aymen Jalil	Ahmed Muhi	
149 - Influence Different Dielectric Materials For Square Patch Antenna on RCS	Huda I. Hamd, Marwa Al-Sultani, Zainab Najeeb Abduahameed Al-Rawi	Huda I. Hamd	
150 - Design and Simulation of H Shape and Duplicate U Shape Slots Microstrip Patch Antenna for WiMAX Applications	Huda I. Hamd, Wurod Qasim Mohamed, Hanan B. Ahmed	Huda I. Hamd	
23 - A hybrid Algorithms to Improve the Quality of Service in Vehicular Ad-Hoc Networks: A Framework	Mustafa Maad Hamdi, Lukman Audah, Sami Abduljabbar Rashid, Mohammed Salah Abood, Ahmed Shamil Mustafa, Mustafa Sabah Noori	Mustafa Maad Hamdi	
118 - Impact of various data packet sizes on the performance of WSN-based clusters: Study	Mohammed Hussein	Mohammed Hussein	
76 - Efficient Energy and QoS Based Routing Algorithm For WBAN	Afolabi Ojelade, Abdullahi Ibrahim, Oguz Ata	Afolabi Ojelade	

Energy Systems

SESSION 12.3. (VROOM3)		Date:	October 23, 2021
Chair: M. Emir Koksall		Time (GMT+3):	1:30 pm - 3:30 pm
Paper	Author (s)	Speaker	
317 - Electroluminescence Properties and Stability of Super Yellow on ZAZ and ITO Anodes	Hakan Bozkurt, Merve Ekmekcioglu, Mehtap Ozdemir, Gulnur Aygun, Lutfi Ozyuzer, Canan Varlikli	Hakan Bozkurt	
99 - Reaktant Kanal Tasarımının PEM Yakıt Hücresi Çıktılarına Etkisi	Hüseyin Kahraman, İsmail Özgün	Hüseyin Kahraman	
126 - Onboard Battery Type Determination	İsmail Can Dikmen, Teoman Karadağ	İsmail Can Dikmen	
85 - Analysis of Scalar Potential Formed in Semiconductor Barrier Discharge Reactor by Boundary Element Method	Ramazan Solmaz, Fevzi Hansu	Ramazan Solmaz	
128 - Control of Battery System and Permanent Magnet Synchronous Motor Supplied by Photovoltaic Panel	Ufuk Badak, Ali Bekir Yıldız	Ufuk Badak	
195 - Yenilenebilir Enerjide Teknoloji Kapsam Analizi	Yunus Emre Özdemir, Metin Yavuz	Yunus Emre Özdemir	
313 - The Analysis of Low Use Reasons of Renewable Energy Sources in The Iron and Steel Industry with Fuzzy Analytic Hierarchy Process- Turkey Example	Sümeyye Şanlı, Filiz Ersöz	Sümeyye Şanlı	
46 - Scenario-based modeling of the effects of electric vehicle charging station on the grid	Alper Kerem, Nurettin Dogan, A. Serdar Yilmaz	Nurettin Dogan	

Machine Learning

SESSION 13.1. (VROOM1) Chair: Turgut Ozseven	Date:	October 23, 2021
	Time (GMT+3):	4:00 pm - 6:00 pm
Paper	Author (s)	Speaker
87 - A New Approach For Age Estimation SystemBased on Speech Signals	Armağan Fidan, Rabia Özge Bircan, Saeid Karamzadeh	Armağan Fidan
291 - Narenciye Ağaç Yaprak Hastalıklarının Evrişimli Sinir Ağları ile Sınıflandırılması	Ercan Kılıç, İrem Nur Ecemiş, Hamza Osman İlhan	Ercan Kılıç
229 - Mobile Phone Price Class Prediction Using Different Classification Algorithms with Feature Selection and Parameter Optimization	Mustafa Çetin, Yunus Koç	Mustafa Çetin
96 - Early Stage Diabetes Prediction Using Machine Learning Methods	Özge Nur Ergün, Hamza Osman İlhan	Özge Nur Ergün
130 - Promising Cryptocurrency Analysis using Deep Learning	Selim Buyrukoğlu	Selim Buyrukoğlu
184 - Optimization of the Transfer Speeds of Passengers Transferring Last Train with Particle Swarm Algorithm	Taha Yüksel, Zübeyde Öztürk	Taha Yüksel
224 - Classification of Osmancik and Cammeo Rice Varieties using Deep Neural Networks	Umit İlhan, Ahmet İlhan, Kaan Uyar, Erkut İnan İseri	Umit İlhan
217 - Object Detection and Recognition of Unmanned Aerial Vehicles Using Raspberry Pi Platform	Zehra Ozkan, Erdem Bayhan, Mustafa Namdar, Arif Basgumus	Zehra Ozkan
269 - Diagnosing Thyroid Cancer Using Deep Learning	Zeynep İlkılıç Aytaç, İsmail İşeri, Beşir Dandil	Zeynep İlkılıç Aytaç

Intelligent Systems

SESSION 13.2. (VROOM2) Chair: Ebubekir Yasar	Date:	October 23, 2021
	Time (GMT+3):	4:00 pm - 6:00 pm
Paper	Author (s)	Speaker
140 - Spiking Activity of L5 Pyramidal Neuron: A Computational Modeling	Mahmut Emin Celik	Mahmut Emin Celik
139 - Multi-Compartmental Modeling for Extracellular Stimulation of Neocortex	Mahmut Emin Celik	Mahmut Emin Çelik
264 - Stokastik İlişkisiz Paralel Makine Çizelgeleme Problemi için bir Matematiksel Model	Mehmet Ertem, Feristah Ozcelik, Tugba Sarac	Mehmet Ertem
273 - İmmün Plazma Algoritması ile Bilişsel Radyo Ağlarında Çok Kullanıcı Kanal Atama Probleminin Çözülmesi	Murat Kısa, Selçuk Aslan, Sercan Demirci	Murat Kısa
233 - Fuzzy Logic-based Adaptive Traffic Light Control of an Intersection: A Case Study	M. Fatih Adak, Musa Balta	Musa Balta
98 - Jensen Shannon Mesafesi Temelli Uyarlanmış Bulanık C Ortalamalar Kümeleme Yöntemi	Naciye Aydın, Gökhan Kayhan	Naciye Aydın
152 - A Deep Hybrid Learning Approach to Detect Bangla Fake News	Quazi Adibur Rahman Adib, Md. Humaion Kabir Mehedi, Md. Sadman Sakib, Kabbya Kantam Patwary, Md Sabbir Hossain, Annajiat Alim Rasel	Quazi Adibur Rahman Adib
167 - Music Royalty Payment Scheme Using Blockchain Technology	Almigdada Aldoma, Adib Habbal	Almigdada Aldoma
181 - Çene Cerrahisi Doku Yara Tedavisinde Kullanılacak Bir Mikroşerit Anten Tasarımı	Zafer Emre Albayrak, Çetin Kurnaz	Zafer Emre Albayrak

Data Mining & Big Data

Data Mining & Big Data		
SESSION 13.3. (VROOM3) Chair: M. Emir Koksal	Date:	October 23, 2021
	Time (GMT+3):	4:00 pm - 6:00 pm
Paper	Author (s)	Speaker
101 - Information and Communication Technologies in Speech and Language Therapy towards enhancing phonological performance	Konstantinos Drosos, Louiza Voniati, Maria Christopoulou, Evangelia I. Kosma, Spyridon K. Chronopoulos, Dionysios Tafiadis, Kostas P. Peppas, Eugenia I. Toki, Nafsika Ziavra	Kostas P. Peppas
155 - Exploring the Speech Language Therapy through Information Communication Technologies, Machine Learning and Neural Networks	Spyridon K. Chronopoulos, Evangelia I. Kosma, Kostas P. Peppas, Dionysios Tafiadis, Konstantinos Drosos, Nafsika Ziavra, Eugenia I. Toki	Kostas P. Peppas
62 - Adaptive Thresholding with Iterative Fuzzy Logic Based Image Enhancements for Wiper Arm Defect Detection	Lee Choo Tay, Chi Wei Foo, Weng Kin Lai	Lee Choo Tay
51 - UTtoKB: a Model for Semantic Relation Extraction from Unstructured Text	Mustafa Salim, Ban Mustafa	Mustafa Salim
198 - Social Data Analytics for Enhancing the Collaborative Economy	Mirsat Sefidanoski, Atanas Hristov, Aleksandar Karadimce, Natasha Paunkoska (Dimoska), Ninoslav Marina	Ninoslav Marina
110 - Data Mining Techniques for the Classification of Medical Cases: A Survey	Oluwaseun Olawale, Fezile Ozdamli, Kamil Dimililer	Oluwaseun Olawale
137 - Advertisement recommendations for products and community prediction	Rana ElMasry	Rana ElMasry
40 - Solving IoT Security and Scalability Challenges with Blockchain	Martin Djonov, Miroslav Galabov, Tsvetanka Georgieva-Trifonova	Martin Djonov
258 - Method for Measurement of the Metabolic CO2 Concentration through a Small Climate Chamber	Radostina A. Angelova, Detelin Markov, Rositsa Velichkova, Peter Stankov	Radostina A. Angelova

Control Systems

Control Systems		
SESSION 14.1. (VROOM1) Chair: Turgut Ozseven	Date:	October 23, 2021
	Time (GMT+3):	6:15 pm - 7:30 pm
Paper	Author (s)	Speaker
6 - Piezoelectric Force Sensor-based Measurement System for Recoil Force Analysis	Ibrahim Sami Ilter, Savaş Dilibal, Harun Zengin	Ibrahim Sami Ilter
148 - Orbital Characterization Study for the Hydrodynamic Micro Tweezers: Simulated Performance with a Passive Particle	Jiyan Sürer, Senanur Düzenli, Ahmet Fatih Tabak	Jiyan Sürer
262 - Numerical Investigation of the Electrophoretic Transition of a Charged Particle through a Nanochannel	Murat Bakırcı, Mihriban Akça	Mihriban Akça
211 - Towards Localized Tactile Feedback on Touch Surfaces: Finite Element Analysis of a Vibrating Touch Screen Actuated by Piezo Patches	Nur Lara Alpdoğan, Mehmet Ayyıldız	Nur Lara Alpdoğan
300 - Control of Attitude Dynamics of an Unmanned Aerial Vehicle with Reinforcement Learning Algorithms	Nurten Emer, Necdet Sinan Özbek	Nurten Emer
293 - Structural Analysis of Industrial Foam Crusher Machine by Using Finite Element Method	Emir Esim, Emre Benzer	Emre Benzer
290 - Machine Learning Assisted Autonomous Vehicle Design and Control	Yunus Emre Kar, Arif Basgumus, Mustafa Namdar	Yunus Emre Kar
241 - Performance Improvement of a Five-Phase PMSM Drive Under Open Circuit Stator Faults	Hüseyin Tayyer Canseven, Abdurrahman Ünsal	Hüseyin Tayyer Canseven

Data Mining & Big Data

Data Mining & Big Data		
SESSION 14.2. (VROOM2) Chair: Ebubekir Yasar	Date:	October 23, 2021
	Time (GMT+3):	6:15 pm - 7:30 pm
Paper	Author (s)	Speaker
41 - IoT and big data in animal farming	Nikolay Valov, Tsvetelina Mladenova, Irena Valova	Tsvetelina Mladenova
39 - Research Problems and Methods in Big Data Analytics for Knowledge Discovery from Customer Feedback	Tsvetanka Georgieva-Trifonova, Miroslav Galabov, Martin Djonov	Tsvetanka Georgieva-Trifonova
219 - Investigating Bluetooth Vulnerabilities to Defend from Attacks	Nishitkumar Patel, Hayden Wimmer, Carl Rebman	Carl Rebman
222 - Windows Reverse TCP Attack: The Threat of Out-of-Date Machinery	Matt Tigner, Hayden Wimmer, Carl Rebman	Carl Rebman
213 - Data Transformation from SQL to NoSQL MongoDB Based on R Programming Language	Forat Falih Hasan, Muhamad Shahbani Abu Bakar	Forat Falih Hasan
50 - Evaluation of an electrical infrastructure of an existing building and economic and environmental benefits of its modernization	Veselin Chobanov, Mihaela Asenova	Mihaela Asenova
185 - Understanding Geographical Patterns of Scientific Collaboration in Artificial Intelligence among Canadian Researchers	Mohammadmahdi Toobae, Andrea Schiffauerova, Ashkan Ebadi	Mohammadmahdi Toobae

Software & Hardware Technologies / Signal Processing

Software & Hardware Technologies / Signal Processing		
SESSION 14.3. (VROOM3) Chair: M. Emir Koksal	Date:	October 23, 2021
	Time (GMT+3):	6:15 pm - 7:30 pm
Paper	Author (s)	Speaker
275 - Frequency Analysis of Electromagnetic Waves in Tripartite Photonic Crystals with Adjustable Part Lengths	Ayşe Nihan Basmacı	Ayşe Nihan Basmacı
94 - Enhanced Sparse Representations of Spike Waveforms Obtained by using the Basis Pursuit Approach	Gorkem Serbes	Gorkem Serbes
114 - Mimicking an Information Reservoir by Superconducting Quantum Circuits	Ufuk Korkmaz, Cem Sanga, Deniz Türkpençe	Ufuk Korkmaz
203 - Data Driven Software Testing with Selenium Apache POI Tool	Ecem İren, Gizem İren, Aylin Kantarcı	Ecem İren
69 - Systems Analysis and Design of Gear Drives through Innovative Software Approach	Svetlin Stoyanov, Antoaneta Dobрева	Antoaneta Dobрева
208 - Exploring Exception Handling Mechanism In Android Application Development	Lama SubLaban, Samer Zain	Lama SubLaban
261 - Practical aspects of journal indexing in scientific databases	Todor Todorov	Todor Todorov