



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

CONGRESS PROGRAM

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June 11-13, 2021, Turkey

SESSION 1.1. (VROOM1)		Date:	June 11, 2021
Chair: Turgut Ozseven		Time (GMT+3):	10:00 am - 12:00 pm
Paper	Author (s)	Speaker	
54 - Non-Contact Micromanipulation of a Single E. Coli Minicell	Jiyan Sürer, Ahmet Fatih Tabak	Ahmet Fatih Tabak	
225 - Satış Oranı Düşük Ürünler için Lokasyon Odaklı Tavsiye Sisteminin Derin Öğrenmeyle Sınıflandırılması	Ahmet Zencirli, Harun Cetin, Nedim Tug, Tolga Ensari	Ahmet Zencirli	
49 - An Enhanced Slime Mould Algorithm for Function Optimization	Davut Izci	Davut Izci	
80 - An Efficient FOPID Controller Design for Vehicle Cruise Control System Using HHO Algorithm	Davut Izci, Serdar Ekinci	Davut Izci	
190 - Nöroanatomi Dersi için bir Mobil Uygulama Önerisi	Güzin Tirkeş, Deniz Gökpınar, Ekin Ece Arıcı, Afranur Bayralı	Deniz Gökpınar	
182 - The Effect of the Wireless Power Transfer for Electric Vehicles on State of Charge	Fatih Durmuş, Serap Karagöl	Fatih Durmuş	
155 - Comparison Of Iron And Steel Production Defects Using Classification Algorithms	İsmail Burak AKINCI, Dina ALOBAIDI, Filiz ERSÖZ	İsmail Burak AKINCI	
116 - Cybersecurity, Computer Networks Phishing, Malware, Ransomware, and Social Engineering Anti-Piracy Reviews	Mehmet Ozer BASESKIOGLU, Abdulkadir TEPECİK	M. Ozer BASESKIOGLU	

SESSION 1.2. (VROOM2)		Date:	June 11, 2021
Chair: Ebubekir Yasar		Time (GMT+3):	10:00 am - 12:00 pm
Paper	Author (s)	Speaker	
90 - A Significant Fallacy of Built-in Correlation Functions in Recommender Systems	Savaş Okyay, Sercan Aygün	Savaş Okyay	
78 - Development of Bioinspired Robotic Pectoral Fin Structure Using Radial Scissor Mechanism	Ali Riza Sapmaz, Savaş Dilibal, Can Ozbaran, Mert Gerçek	Savaş Dilibal	
228 - BICOT: Big Data Analysis Approach for Clustering Cloud based IoT Systems	Zuleyha Akusta Dagdeviren, Orhan Dagdeviren	Orhan Dagdeviren	
236 - A Big Data Analysis Framework for Localization in Cloud based Sensor and Robot Networks	Zuleyha Akusta Dagdeviren, Orhan Dagdeviren	Orhan Dagdeviren	
66 - Ampirik Mod Ayrıştırması ve Welch Yöntemini Kullanarak Dört Sınıflı Motor Hayali EEG Sinyallerinin Derin Öğrenme ile Sınıflandırılması	Mustafa Tosun, Osman Çetin	Osman Çetin	
269 - A Minimum Spanning Tree based Clustering Algorithm for Cloud based Large Scale Sensor Networks	Zuleyha Akusta Dagdeviren	Zuleyha Akusta Dagdeviren	
260 - Design of Flexible Metamaterial Absorber for Broadband Microwave Applications	Sinan Aksimsek	Sinan Aksimsek	
157 - Kablosuz EKG Cihazı Tasarımı ve Sinyal İşleme Teknikleri Kullanılarak Özniteliklerin Değerlendirilmesine Yönelik Web Sitesi Tasarımı	Sinem Abdioğlu, Büşra Acar, Ahmet Reşit Kavsaoglu	Sinem Abdioğlu	
48 - Detailed Investigation and Comparison of Various Binarization Algorithms for Hashing	Şaban Öztürk	Şaban Öztürk	

SESSION 2.1. (VROOM1)		Date:	June 11, 2021
Chair: Turgut Ozseven		Time (GMT+3):	2:00 pm - 3:45 pm
Paper	Author (s)	Speaker	
99 - A Linear Programming Optimization Model to Minimize Waste in Cutting Steel Rods for Table Manufacturing	Mehmet Savsar	Mehmet Savsar	
240 - Optimization of Location of a Distribution Center for an Automobile Supply Chain System	Mehmet Savsar	Mehmet Savsar	
167 - A Study Of Modulation Types in Visible Light Communication	Pınar Uzun, Levent Gökrem	Pınar Uzun	
166 - Solar Power Forecasting With Weather Factors Using Support Vector Regression	Ezgi Deniz Ülker, Sadık Ülker	Sadık Ülker	
88 - Review of Generative Adversarial Networks for Image-to-Image Translation and Image Synthesis	Sara Altun, Muhammed Fatih Talu	Sara Altun	
193 - On the Limit of Multiplexers in Stochastic Computing	Sercan Aygun, Ece Olcay Gunes	Sercan Aygun	
44 - Robust Model Predictive Control for Autonomous Lane-Changing	Serdar Coskun	Serdar Coskun	

SESSION 2.2. (VROOM2)		Date:	June 11, 2021
Chair: Ebubekir Yasar		Time (GMT+3):	2:00 pm - 3:45 pm
Paper	Author (s)	Speaker	
158 - Adopting Drone Technology in Mathematical Education	Siditë Duraj, Lekë Pepkolaj, Gerald Hoxha	Siditë Duraj	
156 - Analysis of the KNN Classifier Distance Metrics for Bulgarian Fake News Detection	Tsvetelina Mladenova, Irena Valova	Tsvetelina Mladenova	
177 - Analysis of the user experience in a web-based university staff's publication management system	Tsvetelina Mladenova, Yordan Kalmukov, Irena Valova	Tsvetelina Mladenova	
56 - Analysis of the traditional voting system and transition to the online voting system in the republic of Iraq	Wasan Salman, Viktor Yakovlev, Sameer Alani	Wasan Salman	
31 - Customer Churn Prediction for Business Intelligence using Machine Learning	Victor Nwaogu, Kamil Dimililer	Victor Nwaogu	
55 - Using blockchain technology to ensure security in the cloud and IoT environment	Vagif Gasimov, Shahla Aliyeva	Shahla Aliyeva	
199 - A Comparative Assessment of Text-independent Automatic Speaker Identification Methods Using Limited Data	Mandana Fasounaki, Emirhan Burak Yüce, Serkan Öncül, Gökhan İnce	Mandana Fasounaki	

SPECIAL SESSION

SESSION 3.1. (VROOM3)		Date:	June 11, 2021
Chair: M. Emir Koksall		Time (GMT+3):	4:00 pm - 4:45 pm
<p>Prof. Dr. Fahri Apaydın <i>"Ethics in the Academy"</i></p>			

KEYNOTE SPEAKER

SESSION 3.2. (VROOM3)		Date:	June 11, 2021
Chair: M.Emir Koksall		Time (GMT+3):	5:00 pm - 6:00 pm
<p>Prof. Dr. Ravi P. Agarwal Department of Mathematics Texas A&M University-Kingsville, Kingsville, U.S.A. <i>"Boundary Value Problems For Delay Differential Equations"</i></p>			

SESSION 4.1. (VROOM2)		Date:	June 11, 2021
Chair: Ebubekir Yasar		Time (GMT+3):	6:15 pm - 7:30 pm
Paper	Author (s)	Speaker	
187 - Merge Model Based Image Captioning for Smartphones	Muharrem Baran, Özge Taylan Moral, Volkan Kılıç	Muharrem Baran	
172 - Videoların Derin Öğrenme ile Sınıflandırılarak Filtrelenmesi	Murat KAZANÇ, Tolga ENSARİ, Mustafa DAĞTEKİN	Murat KAZANÇ	
196 - Fetal Movement Detection and Anatomical Plane Recognition using YOLOv5 Network in Ultrasound Scans	Emre Dandil, Musa Turkan, Furkan Ertürk Urfalı, İsmail Bıyık, Mehmet Korkmaz	Musa Turkan	
261 - Control Allocation of a GEO Satellite For Station-Keeping and Momentum Management by Using Thrusters and Reaction Wheels	Kezban Üçüncü Emri, Onur Cihan	Kezban Üçüncü Emri	
101 - Dental Kişi Tanıma Amacıyla Panoramik Röntgen Görüntülerinde Yeni Bir Çene Bölütleme Yöntemi	Mustafa Hakan Bozkurt, Serap Karagöl	Mustafa Hakan Bozkurt	
37 - Wavelet Dalgacık Dönüşümü ile Tıkayıcı Uyku Apnesi Tahmini ve Epok Sürelerinin Etkisi	Mehmet Balcı, Adem Gölcük, Serkan Küçüktürk, Şakir Taşdemir, Hüsamettin Vatansev, Hülya Vatansev	Mehmet Balcı	
238 - Phishing Web Page Detection Using N-gram Features Extracted From URLs	Mehmet Korkmaz, Emre Koçyiğit, Özgür Koray Şahingöz, Banu Diri	Mehmet KORKMAZ	

SESSION 5.1. (VROOM1)		Date: June 12, 2021
Chair: Turgut Ozseven		Time (GMT+3): 10:00 am - 12:00 pm
Paper	Author (s)	Speaker
181 - Bi-Attempted Based Optimization Algorithm For Numerical Optimization Problems	Mehtap Köse Ulukök	Mehtap Köse Ulukök
159 - A Two Phase Smart Code Editor	Yusuf Akgul, Melike Kalyon	Melike Kalyon
132 - Sentiment Analysis of Meeting Room	Mert İleri, Metin Turan	Mert İleri
114 - The Implementation of DCGAN in the Data Augmentation for the Sperm Morphology Datasets	Kamran Balayev, Nihad Guluzade, Sercan Aygun, Hamza Osman Ilhan	Kamran Balayev
128 - Implementation of a Mobile Application for Teaching and Analyzing RLC Circuits	Anday Duru, Kadir İleri	Kadir İleri
68 - A Review of Recent Advances for Preventing, Diagnosis and Treatment of Diabetes Mellitus using Semantic Web	Kadime GOGEBAKAN, Melike SAH	Kadime GOGEBAKAN
15 - Integration of Cloud-Based Speech Recognition System to the Internet of Things Based Smart Home Automation	Saadin Oyucu	Saadin Oyucu
200 - Comparative Dissolved Gas Analysis with Machine Learning and Traditional Methods	Merve Demirci, Haluk Gözde, M. Cengiz Taplamacıoğlu	Merve Demirci

SESSION 5.2. (VROOM2)		Date: June 12, 2021
Chair: Ebubekir Yasar		Time (GMT+3): 10:00 am - 12:00 pm
Paper	Author (s)	Speaker
163 - Dual-Band Frequency Absorber Based on Split-Ring Resonators for WiMAX and WLAN Bands	Alparslan Cinar, Siddik Cumhuri Basaran	Alparslan Cinar
113 - Hybrid Course Recommendation System Design for a Real-Time Student Automation Application	Alper Arık, Savaş Okyay, Nihat Adar	Alper Arık
110 - Haber Metinlerinden Sosyo-ekonomik ve Epidemiyolojik Konuların Metin Madenciliğine Dayalı Belirlenmesi	Aytuğ Onan	Aytuğ Onan
150 - COVID-19 ile İlgili Sosyal Medya Gönderilerinin Metin Madenciliği Yöntemlerine Dayalı Olarak Zaman-Mekansal Analizi	Aytuğ Onan	Aytuğ Onan
100 - Measurement Precision of Average Frame for Solid-State Time-of-Flight Camera	Cihan Altuntas	Cihan Altuntas
248 - Admission Chance Prediction Models for the School of Physical Education and Sports Candidates	Cumali Kaynar, Mustafa Mikail Özçiloğlu	Cumali Kaynar
227 - Comparison of Some Static Path Planning Models Localization Performance in Obstacle-Presence Environment	Dogan Yildiz, Serap Karagol	Dogan Yildiz
127 - Design of IoT-based Air Quality Meter Module and Air Quality Analysis with Machine Learning	Ege Alp Türkyener, Savaş Şahin, Sadık Arslan	Ege Alp Türkyener

SESSION 5.3. (VROOM3)		Date:	June 12, 2021
Chair: Mehmet Emir Köksal		Time (GMT+3):	10:00 am - 12:00 pm
Paper	Author (s)	Speaker	
63 - Power Quality and financial risk for RES investments	Vesselin Chobanov	Vesselin Chobanov	
122 - Electrical Infrastrucure in Hospitals risks and opportunity for quality healthcare	Vesselin Chobanov	Vesselin Chobanov	
18 - Design and Assembly of A Smart Recycling Bin	Maryam Makhseed, Farah AbdelSalam, Sara El-Aswad, Seyed Ebrahim Esmaeili	Seyed Ebrahim Esmaeili	
82 - Calculation and Mitigation of the Magnetic Fields under the High Voltage Overhead Transmission Line	Salah-Eddine Houicher	Salah-Eddine Houicher	
39 - Improving Training time in Capsule Neural Network	Onyeachonam Dominic-Mario Chiadika, Moazhen Li, Jaewoong Choi	O. D. Chiadika	
152 - Implementation of pick-and-place algorithms for the purposes of wafer handling robotics simulations	Nikolay Bratovanov	Nikolay Bratovanov	
252 - Brain computer interface for human-cobot interaction in industrial applications	Yevheniy Dmytriyev, Ahmed Magdy Ahmed Zaki, Marco Carnevale, Federico Insero, Hermes Giberti	Marco Carnevale	
231 - Autonomous Driving by Using Convolutional Neural Network	Nikola Kalkovaliev, Georgina Mirceva	Nikola Kalkovaliev	
120 - Impact of Environmental Variables on the Propagation Phenomena in Wireless Sensor Networks: Open Problems and Research Opportunities	Mauricio Gonzalez-Palacio, Lina Sepúlveda-Cano, Diana Tobón-Vallejo	M. Gonzalez-Palacio	

SESSION 6.1. (VROOM1)		Date:	June 12, 2021
Chair: Turgut Ozseven		Time (GMT+3):	1:30 pm - 3:30 pm
Paper	Author (s)	Speaker	
11 - Hyperledger, Ethereum and Blockchain Technology: A Short Overview	Alaa Hamid Mohammed	Alaa Hamid Mohammed	
50 - Metamaterial-based Printed Circuit Antenna for Biomedical Applications	Dhulfiqar Ali, Taha A Elwi, Serkan Ozbay	Dhulfiqar Ali	
250 - Compressing the Scenes of Medical Video by Using Eigenvector	Hiba Hameed Alshuwaili, Abdullahi Abdu Ibrahim, Salwa A. Al-agma	H. Hameed Alshuwaili	
3 - An overview of challenges for data dissemination and routing protocols in VANETS	Mustafa Maad Hamdi, Othman Arkan Rahomi Al-Dosary, Omar Abdulaziz Saod Alrawi, Ahmed Shamil Mustafa, Mohammed Salah Abood, Mustafa Sabah Noori	Mustafa Maad Hamdi	
106 - Integrity and Authentications for service security in vehicular ad hoc networks (VANETSs): A Review	Mustafa Maad Hamdi, Yuser Anas Yussen, Ahmed Shamil Mustafa	Mustafa Maad Hamdi	
29 - All-optical Half-adder based on multilayer structure with second-order nonlinearity effects	Seyyedeh Sevila Sojudi, Vahid Rostami	Seyyedeh Sevila Sojudi	
25 - Opportunities and Challenges to Educators When Transitioning to A Tel Environment – Case of Kuwait	Dania El Achmar, Rupali Bhagat	Rupali Bhagat	

SESSION 6.2. (VROOM2)		Date:	June 12, 2021
Chair: Ebubekir Yasar		Time (GMT+3):	1:30 pm - 3:30 pm
Paper	Author (s)	Speaker	
192 - Job Descriptions Keyword Extraction using Attention based Deep Learning Models with BERT	Hussain Falih Mahdi, Rishit Dagli, Ali Mustufa Shaikh, Sameer Nanivadekar	Rishit Dagli	
136 - Design and implementation of a cognitive ability virtual reality training tool	Hazan Perez-C., William D. Moscoso-Barrera, Luis Alfredo Paipa-Galeano	Hazan Perez-C.	
12 - Application of Hierarchical Cluster Analysis in The Machine Learning	Georgi Krastev, Valentina Voinohovska	Georgi Krastev	
135 - The analysis of Teletraffic and Handover Performance in Cellular System	Mohammed Salah Abood, Ahmed Mustafa, Mustafa Hamdi, Ali Al-Fakih, Hussain Mahdi, Naser Hussein	M. Salah Abood	
273 - Control of Construction Quality by a Terrestrial Laser Scanner: Example of Steel Frame Building	Shakhzod M. Takhirov	Shakhzod M. Takhirov	
138 - Point Clouds of Bridge Generated by Terrestrial Laser Scanner and Images via Structure from Motion Technique: Comparison Study	Shakhzod Takhirov, Robert Kayen	Shakhzod Takhirov	
71 - Role and challenges of the use of UAV-aided WSN monitoring system in large-scale sectors	Mohammad A. Al-Mashhadani, Mustafa Maad Hamdi, Ahmed Shamil Mustafa	M. A. Al-Mashhadani	
2 - Image encryption algorithm using DNA pseudo-symbols and chaotic map	Vagif Gasimov, Jabir Mammadov	Jabir Mammadov	

SESSION 6.3. (VROOM3)		Date:	June 12, 2021
Chair: Mehmet Emir Köksal		Time (GMT+3):	1:30 pm - 3:30 pm
Paper	Author (s)	Speaker	
19 - Design and Assembly of a Smart Steamer	Fatema Al-Alawi, Dalal Bouresli, Seyed Ebrahim Esmaeili	Seyed Ebrahim Esmaeili	
20 - Design of a Drivable Airport Luggage Trolley	Hesah Al Enezi, Seyed Ebrahim Esmaeili	Seyed Ebrahim Esmaeili	
60 - Weighted Round Robin Scheduling Algorithms in Mobile Ad Hoc Network	Ahmed Mohammed, Nor Fadzilah Abdullah, Sameer Alani, Othman Al-Heety, Mohammed Mudhafar, Mohammed Ayad, Sarmad Nozad	Sarmad Nozad	
58 - Localizing and Imaging of Breast Cancer Based on UWB Antenna Sensor Network	Sameer Alani, Zahriladha Zakaria, Asmla Ahmad Ahmad	Sameer Alani	
178 - High layer thickness influence on melt pool sizes and defects appearing of Ti6Al4V at high scan speeds	Nada Hassine, Sami Chatti, Mouna Ben Slama	Nada Hassine	
64 - Development of single-Axis Wheel Speed Sensor HiL Test Bench for Vehicle Velocity Control	Jannis Kreß, Arturo Morgado-Estevez, Fernando Perez-Peña, Karsten Schmidt, Hektor P. Hebert	Jannis Kreß	
94 - Focused crawling application for building corporate knowledge base	Neyko Neykov, Svetlana Stefanova	Neyko Neykov	
151 - Efficacy and Acceptance of Virtual Classroom During COVID-19: Bangladesh Perspective	Nabarun Halder, S. M. Rakibul Islam, Md. Sarwar Hosain, Eshtiaq Ahmed, Ashraf Islam, Sheak Rashed Haider Noori	Nabarun Halder	
53 - Machine Learning approach for Item-based Movie Recommendation using most relevant similarity techniques	Mijanur Rahman, Sumiya Prity, Ziad Abdul Bari	Mijanur Rahman	

SESSION 7.1. (VROOM1)		Date: June 12, 2021
Chair: Turgut Ozseven		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	Speaker
96 - Detection of COVID-19 Cases with Fuzzy Classifiers Using Chest Computed Tomography	Aleyna Kökten, Volkan Kılıç	Aleyna Kökten
241 - Metaheuristic algorithm based PI controller design for a Linearized Quadruple Tank Process	Ali Kıvanç ŞAHİN, Tuba TAŞ, Emre BERTUĞ, Mustafa Şinasi AYAS	Ali Kıvanç ŞAHİN
176 - Comparison of Three Travel Websites According to Cognitive Load and Usability Metrics	Büşra Nur Yetkin, N. Fırat Özkan, Merve Sert, Gülce Yücel	Büşra Nur Yetkin
144 - Deniz Savaş Sistemleri Test Yönetim Süreçleri	Büşra TOPCU, Selim BAYRAKLI	Büşra TOPCU
174 - A Roadmap to Future Applications for Internet of Nano-Things	Emre Şahin, Orhan Dağdeviren, Mustafa Alper Akkaş	Emre Şahin
271 - Camera Controlled Smart Food Container Design	Hatice Selenay ÇAKICI, Metin TURAN	Hatice Selenay ÇAKICI
226 - Battery State of Health and Charge Estimation Using Machine Learning Methods	Enes Malik ŞAHİN, Savaş ŞAHİN, İbrahim TANAĞARDIGİL	Enes Malik ŞAHİN
212 - Tekstil Sektörü için ROS Destekli Otonom Mobil Robot Geliştirilmesi	Eylül Ozer, Burak Inner	Eylül Ozer
171 - Hibrit Ayırıklaştırma Yöntemi Kullanarak Çok Adımlı Rüzgar Hızı Tahminlemesi	Cem EMEKSİZ, Mustafa TAN	Mustafa TAN

SESSION 7.2. (VROOM2)		Date: June 12, 2021
Chair: Ebubekir Yasar		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	Speaker
131 - A Programmable Analog Device Based Emulation Circuit Design for Excitatory and Inhibitory Neurons	Nimet Korkmaz	Nimet Korkmaz
173 - Object Detection for Safe Working Environments using YOLOv4 Deep Learning Model	Oğuzhan Önal, Emre Dandıl	Oğuzhan Önal
259 - Çok Etmenli Sistemlerde Bir Dağıtık Denklem Çözüm Algoritmasının Yakınsama Hızı En İyilemesi	Onur Cihan	Onur Cihan
79 - Nickel-Titanium SMA Springs Actuated Bioinspired Soft Robot for Pipeline Inspections	Yavuz Sapmaz, Savas Dilibal, Orhan Yılmaz, Ali Rıza Sapmaz	Savas Dilibal
262 - Bluetooth Controlled Hexapod Robot Design	Koray KAVLAK, İbrahim Ali KARTAL	İbrahim Ali KARTAL
205 - İş İlanı ve Öz Geçmişlerde Varlık İsmi Tanıma	Seda Kul, Ahmet Sayar	Seda Kul
215 - Kitle-Kaynak ve Tam Metin Arama ile Markette Ürün Bazında Uygun Fiyat Öneri Sistemi	Fulya Er, Seda Kul, Ahmet Sayar	Fulya Er
268 - A Cloud-based Asset Tracking System For Hospitals Using Ultra-wideband Localization	Noushin Karimpour, Zuleyha Akusta Dagdeviren, Vahid Akram, Orhan Dagdeviren	Noushin Karimpour
95 - Artificial Intelligence based Blood Sugar Prediction with Smartphone Application	Volkan Kılıç	Volkan Kılıç
197 - Current Research Areas in Blockchain	Yılmaz Dikilitaş, Kazım Onur Toka, Talha Oktay, Ahmet Sayar	Yılmaz Dikilitaş

SESSION 7.3. (VROOM3)		Date: June 12, 2021
Chair: M. Emir Koksall		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	Speaker
107 - Performance Analysis of KNN and Neural Networks for Predicting Customer Purchases in a Real Retail Department Store	Ledion Lico, Indrit Enesi	Indrit Enesi
32 - Assessment of the sustainability of communication networks built on the basis of computer networks	Vagif Gasimov, Adil Nastakalov	Adil Nastakalov
61 - COVID-19 : Toward Artificial Intelligence Algorithms	Yousif Hardan Sulaiman, Ahmed Shamil Mustafa	Ahmed Shamil Mustafa
70 - IMMBA – An Integrative Model for Mobile Banking Adoption: The Case of Saudi Arabia	Amal Alzahrani, Natalia Beloff, Martin White	Amal Alzahrani
234 - A Data-Driven Fatigue Prediction using Recurrent Neural Networks.	Arsalan Lambay, Ying Liu, Ze Ji, Phillip Morgan	Arsalan Lambay
145 - 6-DOF Grasp Detection for Unknown Objects Using Surface Reconstruction	Henry Schaub, Alfred Schöttl, Maximilian Hoh	Henry Schaub
165 - Application of Machine Learning for Improving the Algorithm for Capturing, Orienting and Placing an Object with 6-Axis Robot and 2d Visual Inspection Camera	Boris Kostov, Vladimir Hristov	Boris Kostov

SESSION 8.1. (VROOM1)		Date: June 12, 2021
Chair: Turgut Ozseven		Time (GMT+3): 6:15 pm - 7:30 pm
Paper	Author (s)	Speaker
69 - Face Detection, Tracking and Recognition with Artificial Intelligence	Pınar Oğuz Ekim, Sercan Çağdaş Tekkök, Bekir Bostancı, Mehmet Emre Söyünmez	Pınar Oğuz Ekim
84 - A Novel Docking Algorithm Based On The LiDAR And The V-shape Features	Pınar Oğuz Ekim, Sercan Çağdaş Tekkök, Bekir Bostancı, Mehmet Emre Söyünmez	Pınar Oğuz Ekim
175 - Evaluation of Jeppesen and Garmin Electronic Flight Bags (EFBs) Applications in Terms of Cognitive Workload and Availability	N. Firat Özkan, Emre Aksoy, Gökberk Şensoy	Emre Aksoy
40 - ECG Classification Performing Feature Extraction Automatically Using a Hybrid CNN-SVM Algorithm	Öznur Özaltın, Özgür Yeniay	Öznur Özaltın
246 - Covid-19 Döneminde Uzaktan Eğitimde Mentor Gerekliğinin Makine Öğrenmesi Yaklaşımları İle Belirlenmesi Ve Belirleyicilerin Açıklanması	Ebru Simsek, Pelin Canbay	Pelin Canbay
59 - Cost Estimation in the Iron and Steel Industry	Gizem KAPANŞAHİN, Filiz ERSÖZ	Gizem KAPANŞAHİN
224 - Adaptive Genetic Algorithm Renewed by Migration Operator	Rabia Korkmaz Tan, Şebnem Bora	Rabia Korkmaz Tan
91 - Modifiye Yapay Arı Kolonisi Algoritması ile Konsol Dayanma Duvarının Türkiye Bina Deprem Yönetmeliği 2018'e Göre Optimum Tasarımı	Esra Uray, Büşra Nur Çıtırık	Esra Uray

SESSION 8.2. (VROOM2)		Date: June 12, 2021
Chair: Ebubekir Yasar		Time (GMT+3): 6:15 pm - 7:30 pm
Paper	Author (s)	Speaker
149 - A new Deep Learning Based Intrusion Detection System for Cloud Security	Selman Hızal, Ünal Çavuşoğlu, Devrim Akgün	Selman Hızal
203 - Investigation of Electromagnetic Wave Propagation Frequencies in Two-Dimensional Photonic Crystals with Finite Differences Method	Ayşe Nihan Basmacı, Seckin Filiz	Seckin Filiz
239 - Set Tipi Engeli Aşmak İçin Strandbeest Yürüme Mekanizmalı Mobil Robotun Tasarımı	Koray KAVLAK, İbrahim Ali KARTAL	İbrahim Ali KARTAL
256 - KLANN YÜRÜME MEKANİZMALI MOBİL ROBOTUN KİNEMATİK ANALİZİ	Koray KAVLAK, İbrahim Ali KARTAL	İbrahim Ali KARTAL
93 - Impact of Considering Wind Power Uncertainty on Transmission Expansion Planning	Reza Sirjani, Alaa Ibrahim	Reza Sirjani
129 - Tactile Feedback on a Fabric Surface Using Electro-vibration	Rıza İlhan, Kadir Kaçanoğlu	Rıza İlhan

SESSION 8.3. (VROOM3)		Date: June 12, 2021
Chair: M. Emir Koksall		Time (GMT+3): 6:15 pm - 7:30 pm
Paper	Author (s)	Speaker
164 - An Approach for Data Transformation In Homogeneous and Heterogeneous Information Systems	Forat Falih Hasan, Muhamad Shahbani Abu Bakar	Forat Falih Hasan
184 - Image Processing for GEO	Gaetano Zarccone, Lorenzo Mariani, Mascia Bucciarelli, Shariar Hadji Hossein, Federico Curianò, Paola Celesti, Luigi Di Palo	Gaetano Zarccone
160 - Enhanced Super Twisting -based RISE Control For Trajectory Tracking Of Parallel Robot	Fatima NOURI	Fatima NOURI
223 - Development of a Tomato Harvesting Robot: Peduncle Recognition and Approaching	Nikolaos Kounalakis, Emmanouil Kalykakis, Manos Pettas, Alexandros Makris, Manolis M. Kavoussanos, Michael Sfakiotakis, John Fasoulas	Nikolaos Kounalakis
92 - IOT Based Low-Cost Smart Home Automation System	Bilal Mustafa, Muhammad Waseem Iqbal, Mohsin Saeed, Abdul Rehman Shafqat, Hasnain Sajjad, Muhammad Raza Naqvi	Bilal Mustafa
14 - Gesture-Controlled Robotic Arm Utilizing OpenCV	Jedidiah Paterson, Ahmed Aldabbagh	Jedidiah Paterson
153 - Automated Control of Pasteurization in Wine Production	Vladimir Hristov, Danail Slavov	Danail Slavov

SESSION 9.1. (VROOM1)		Date:	June 13, 2021
Chair: Turgut Ozseven		Time (GMT+3):	10:00 am - 12:00 pm
Paper	Author (s)	Speaker	
133 - A Book Recommendation System Using Decision Tree-based Fuzzy Logic for E-Commerce Sites	M. Fatih ADAK, Metehan UCAR	Metehan UCAR	
134 - Internet of Things Based Smart Medicine Mobile Application	Zeynep Öztumur, Eda Saydam, Azra Nur Gür, Mustafa Alper Akkaş	Zeynep Öztumur	
251 - Electricity Demand Forecasting Using the Artificial Neural Network	Yeşim Esra UNUTMAZ, Alpaslan DEMİRCİ, Said Mirza TERCAN, Recep YUMURTACI	Yeşim Esra UNUTMAZ	
197 - Current Research Areas in Blockchain	Yılmaz Dikilitaş, Kazım Onur Toka, Talha Oktay, Ahmet Sayar	Yılmaz Dikilitaş	
235 - Klann Yürüme Mekanizmalı Robotun Mukavemet ve Modal Analizi	Koray KAVLAK, Yiğit Osman TANER	Yiğit Osman TANER	
229 - Taaruz Helikopteri Kamera ve Dengeleme Sistemi Tasarımı	Koray KAVLAK, Yiğit Osman TANER	Yiğit Osman TANER	
232 - Tez Yazım ve Yönetim Sistemi	Yasin BADUR, Dursun AKASLAN	Yasin BADUR	
22 - Fuzzy Decision Mechanism for Stock Market Trading	Yavuz Çapkan, Erdi Şenol, Cenk Ulu	Yavuz Çapkan	

SESSION 9.2. (VROOM2)		Date:	June 13, 2021
Chair: Ebubekir Yasar		Time (GMT+3):	10:00 am - 12:00 pm
Paper	Author (s)	Speaker	
244 - Optimization Of Deep Learning Model Parameters In Classification Of Solder Paste Defects	Ali Sezer, Aytaç Altan	Ali Sezer	
147 - Zero Flow Rate Detection of Ultrasonic Water Meter Using Machine Learning Techniques	Alkım GÖKÇEN, Bahadır YEŞİL	Alkım GÖKÇEN	
247 - Fuzzy Logic Controlled Active Hydro-Pneumatic Suspension Design Simulation And Comparison For Performance Analysis	Arif Mert Şerifoğlu, Coşku Kasnakoğlu	Arif Mert Şerifoğlu	
24 - Advancement Of Deep Learning In Big Data And Distributed Systems	Ali Saadoon Ahmed, Mohammed Salah Abood, Mustafa Maad Hamdi	Ali Saadoon Ahmed	
85 - The Use of Machine Learning in Evaluating the Usability of TV and Set-Top Boxes Interfaces	Aycan Pekpazar, Çiğdem Altın Gümüşsoy	Aycan Pekpazar	
86 - Association between Usability Heuristics and Problems: Use of Machine Learning	Aycan Pekpazar, Çiğdem Altın Gümüşsoy	Aycan Pekpazar	
142 - Design of the Personal Electrics Vehicle	Atıl Emre COŞGUN	Atıl Emre COŞGUN	
253 - Development Supply Chain Management In Terms of Quality Function: An Application in the Manufacturing Industry	Ayşenur Erdil	Ayşenur Erdil	

SESSION 9.3. (VROOM3)		Date:	June 13, 2021
Chair: M. Emir Koksall		Time (GMT+3):	10:00 am - 12:00 pm
Paper	Author (s)	Speaker	
201 - Methods of control of three phase AC/DC converter with bilateral energy exchange	Kamen Hristov	Kamen Hristov	
249 - A Path Planning Method For Robotic Additive Manufacturing	Kevin Castelli, Ahmed Magdy Ahmed Zaki, Anikethan Yenjalagere Balakrishnappa, Marco Carnevale, Hermes Giberti	Kevin Castelli	
254 - Mechanical Design and Development of a Continuous Rotational Variable Stiffness Actuator	Kevin Castelli, Marco Gavioli, Yevheniy Dmytriyev, Hermes Giberti	Kevin Castelli	
183 - Computer vision and stochastic approach for LEO objects attitude determination	Lorenzo Mariani, Gaetano Zarccone, Shariar Hadji Hossein, Leonardo Parisi	Lorenzo Mariani	
179 - Data Reduction Algorithms for Wireless Sensor Networks Applications: Review	Mohammed Kareem Hussein	M. Kareem Hussein	
67 - Study of Energy Efficiency in a Class of CNC Machine Tools	Marin Zhilevski, Mikho Mikhov	Marin Zhilevski	
119 - Design of an Automated Car Washing System with Verilog HDL	Marin Zhilevski, Vladimir Hristov	Marin Zhilevski	

SESSION 10.1. (VROOM1)		Date:	June 13, 2021
Chair: Turgut Ozseven		Time (GMT+3):	1:30 pm - 3:30 pm
Paper	Author (s)	Speaker	
125 - Wavelet-based Spatial-temporal Feature Extraction for Gesture Recognition	Tuğba Zeybek, Ufuk Sakarya	Tuğba Zeybek	
148 - Öznitelikli Ağlarda Topluluk Arama	TUĞÇE KAĞNICI, ARZU GORGULU KAKİSİM	TUĞÇE KAĞNICI	
143 - Disturbance Observer Based Force Estimation and Bilateral Teleoperation on Impedance Type Haptic Interfaces	Uğur Tümerdem	Uğur Tümerdem	
207 - Gri Kurt Optimizasyon Algoritması ile Kosinüs Modüleli Süzgeç Bankası Tasarımı/ Cosine Modulated Filter Bank Design with Gray Optimization Algorithm	Sümeyya Arıkan, Fatma Latifoğlu	Sümeyya Arıkan	
189 - Enhancement of Magnetic Dipole Spontaneous Emission with Silicon Hollow Nanocuboid Resonator in Visible Range	Şuanur KABA, Yakup HAMEŞ, Erdem ASLAN, Ekin ASLAN	Şuanur KABA	
62 - Benchmarking Usability Performance of E-Commerce Websites with AHP and TOPSIS Methods	Muhammet Enis Bulak, Orkun Kozanoğlu, Şule Nur Aydoğduoğlu, Fatmanur Göçer, Rabia Algül	Şule Nur Aydoğduoğlu	
188 - Conceptual Design of a Cargo UAV That Can Take-off and Land Vertically	Sezgin Yolcu, Murat Akdağ	Sezgin Yolcu	
211 - Text Generation Practices in Human Resources	Seval Az, Kemal Can Kara, Deniz Kılınç, Fatma Bozyiğit	Seval Az	

SESSION 10.2. (VROOM2)		Date:	June 13, 2021
Chair: Ebubekir Yasar		Time (GMT+3):	1:30 pm - 3:30 pm
Paper	Author (s)	Speaker	
230 - U-net Mimarileri ile Glioma Tümör Segmentasyonu Üzerine Bir Literatür Çalışması	AYŞE BAŞTUĞ KOÇ, DEVRİM AKGÜN	AYŞE BAŞTUĞ KOÇ	
154 - Effect of Data Set Size on Deep Learning in Voice Recognition	Ayşe Nur Çayır, Tuğba Selcen Navruz	Ayşe Nur Çayır	
257 - The Velocity Control with Machine Learning under the External Disruption of an Unmanned Sea Surface Vehicle	Recep Fatih Cantekin, Berna Erol, Seda Karadeniz Kartal	Berna Erol	
139 - İki Amaçlı Çoklu Gezgin Satıcı Problemi için Üç Aşamalı Çözüm Yaklaşımı	Beyza Günesen, Muzaffer Kapanoğlu	Beyza Günesen	
118 - Nesnelerin İnterneti Tabanlı Kablosuz Taşınabilir EKG Cihazı	Bircan Çiftçi, Zeynep Şen, Mustafa Alper Akkaş	Bircan Çiftçi	
57 - LightWeight Deep Convolutional Neural Networks for Vehicle Re-Identification using Diffusion-based Image Masking	Melike Sah, Cem Direkoglu	Cem Direkoglu	
255 - Mouse Cursor Control with EOG and Microcontroller-Based System	Cemil Keskinoglu, Ahmet Aydın	Cemil Keskinoglu	
210 - Hafif Elektrikli Araçlar için Asenkron Motor Tasarımı ve Uygulaması	Cemil Ocak, Burak Yenipınar	Cemil Ocak	
221 - Hibrit Yapılı Rotor Sargısının Asenkron Motor Verimliliği ve Performansı Üzerindeki Etkilerinin İncelenmesi	Cemil Ocak, Burak Yenipınar	Cemil Ocak	

SESSION 10.3. (VROOM3)		Date:	June 13, 2021
Chair: M. Emir Koksak		Time (GMT+3):	1:30 pm - 3:30 pm
Paper	Author (s)	Speaker	
65 - Design and implementation of a photovoltaic system for self-sufficient energy supply of mobile robots	Christoph Geng, Karsten Schmidt	Christoph Geng	
87 - Determine the Shortest Path Problem Using Haversine Algorithm, A Case Study of SMA Zoning in Depok	Diana Ikasari, Widiastuti Widiastuti, Rheza Andika	Diana Ikasari	
76 - Machine Learning Algorithms for Regression Analysis and Predictions of Numerical Data	Diyana Kinaneva, Georgi Hristov, Petko Kyuchukov, Georgi Georgiev, Plamen Zahariev, Rosen Daskalov	Diyana Kinaneva	
77 - A Workflow for Developing Game Assets for Video Games	Georgi Hristov, Diyana Kinaneva	Diyana Kinaneva	
170 - Methodology for bio-inspired design innovations based on functional decomposition	Sofija Sidorenko, Elena Angeleska, Filip Dimitriev, Jelena Djokikj	Elena Angeleska	
35 - Cloud DATA LAKE: The new trend of data storage	Elisabeta Zagan, Mirela Danubianu	Elisabeta Zagan	
217 - Content Engineering for State-of-the-art SEO Digital Strategies by Using NLP and ML	Emilija Gjorgjevska, Georgina Mirceva	Emilija Gjorgjevska	
104 - A CPW-Fed Amended U-Shaped Monopole UWB Antenna For Surfaces Penetrating Applications	Mohammed Guerroui, Abdelhalim Chaabane, Ahcene Boualleg	Mohammed Guerroui	

SESSION 11.1. (VROOM1)		Date:	June 13, 2021
Chair: Turgut Ozseven		Time (GMT+3):	4:00 pm - 6:00 pm
Paper	Author (s)	Speaker	
75 - Automated Evaluation of the Virtual Assistant in Bleu and Rouge Scores	Hajar Chatoui, Oğuz Ata	Hajar Chatoui	
263 - The Avoidance And Detection Function Of Artificial Intelligence In Covid-19	Alaa Amjed Abdulateef, Alaa Hamid Mohammed, Ihsan Amjad Abdulateef	Alaa Amjed Abdulateef	
72 - Analysis of Anomaly Detection Approaches Performed Through Deep Learning Methods in SCADA Systems	Hakan Can Altunay, Zafer Albayrak, Ahmet Nusret Özalp, Muhammet Çakmak	Hakan Can Altunay	
73 - Network Intrusion Detection Approach Based on Convolutional Neural Network	Hakan Can Altunay, Zafer Albayrak	Hakan Can Altunay	
195 - Autonomously Controlled Intelligent Wheelchair System for Indoor Areas	Halil İbrahim Şahin, Ahmet Reşit Kavsaoğlu	Halil İbrahim Şahin	
191 - Surround Sound Direction Detection System For The Hearing Impaired	Ahmet Reşit KAVSAOĞLU, Hasan CAMCI	Hasan CAMCI	
237 - Educational Data Mining Using Semi-Supervised Ordinal Classification	Ferda Ünal, Derya Birant	Ferda Ünal	
243 - Fault-related Alarm Detection of a Wind Turbine SCADA System	Burkay Karadayi, Yusuf Kuvvetli, Suphi Ural	Burkay Karadayi	
141 - ARM Based Smart Water Meter with LoRa for Soilless Agriculture Application	Caner Baydur, Savaş Şahin, Alkım Gökçen, Bahadır Yeşil	Caner Baydur	

SESSION 11.2. (VROOM2)		Date:	June 13, 2021
Chair: Ebubekir Yasar		Time (GMT+3):	4:00 pm - 6:00 pm
Paper	Author (s)	Speaker	
111 - Bulanık Mantık Tabanlı Bir Hibrit Yol Takip Yöntemi	Muhammed Çelik, Cenk Ulu	Muhammed Çelik	
219 - İkili Gri Kurt ve İkili Harris Şahin Optimizasyonları ile Web Haber Sayfalarının Sınıflandırılması	Muhammet AKTAŞ, Fatih KILIÇ	Muhammet AKTAŞ	
98 - Permanent Magnet Wind Generators: Neodymium vs. Ferrite Magnets	Mehmet Semih Özdemir, Cemil Ocak, Adem Dalcalı	Mehmet Semih Özdemir	
213 - Deep Reinforcement Learning Based Controller Design for Model of The Vertical Take-off and Landing System	Mahmut Ağralı, Mehmet Uğur Soydemir, Alkim Gökçen, Savaş Şahin	Mahmut Ağralı	
206 - Control of swarm robotics in Webots with PSO	Levent Türkler, Taner Akkan, Özlem Akkan	Levent Türkler	
168 - Türkiye'nin Yenilenebilir Enerji Trendleri	Cem EMEKSİZ, Muhammed Musa FINDIK	M. Musa FINDIK	
21 - Derin Öğrenme Algoritması (YOLO) ile Dinamik Test Süresince Süspansiyon Parçalarında Çatlak Tespiti	Muhammed Abdullah ÖZEL, Selim Sefa BAYSAL, Mustafa ŞAHİN	M. Abdullah ÖZEL	
140 - FPGA Hardware Implementation of a SHA384 Accelerator for Internet of Things Applications	İhsan Çiçek	İhsan Çiçek	
270 - Mechanical and Microstructural Properties of Ti-V-Al High Temperature Shape Memory Alloy	Semra Ergen	Semra Ergen	

SESSION 11.3. (VROOM3)		Date:	June 13, 2021
Chair: M. Emir Koksall		Time (GMT+3):	4:00 pm - 6:00 pm
Paper	Author (s)	Speaker	
89 - Wrist Vein Recognition by Fusion of Multiple Handcrafted Methods	Felix Olanrewaju Babalola, Önsen Toygar, Yıltan Bitirim	F. Olanrewaju Babalola	
34 - Trajectory Planning Optimization for the Autonomous Three-Wheeled Omnidirectional Mobile Robot	Eyad Almasri, Mustafa Kemal Uyguroğlu	Eyad Almasri	
115 - Modeling and Optimal Motion Planning for the Omnidirectional Mobile Robot with Three Orthogonal Wheels	Eyad Almasri, Mustafa Kemal Uyguroğlu	Eyad Almasri	
30 - Comparison of Brain Tumor Detection in MRI Images Using Straightforward Image Processing Techniques and Deep Learning Techniques	Marium Malik, Muhammad Raza Naqvi	Marium Malik	
41 - Comparative Analysis of Activation Functions used in the Hidden Layers of Deep Neural Networks	Martin Kaloev, Georgie Krastev	Martin Kaloev	
42 - A simulation-based analysis for a transverse guidance for highly automated driving functions	Marzana Khatun, Milin Patel, Rolf Jung, Michael Glaß	Marzana Khatun	
194 - Hybrid Explainable Smart House Control System	Algirdas Dobrovolskis, Egidijus Kazanavicius	Algirdas Dobrovolskis	

SESSION 12.1. (VROOM1)		Date:	June 13, 2021
Chair: Turgut Ozseven		Time (GMT+3):	6:15 pm - 7:30 pm
Paper	Author (s)	Speaker	
74 - Generative Design Methodology for Internet of Medical Things (IoMT)-based Wearable Biomedical Devices	Cinay Dilibal, Brian L. Davis, Chinmay Chakraborty	Cinay Dilibal	
123 - A Hybrid Stock Optimization Approach for Inventory Management	Egemen Berki Çimen, İlknur Kurban, Özgür Selmanoğlu, Murat Şahin, Deniz Kılınc	Egemen Berki Çimen	
97 - Deep Learning Based Automated Classification of Marble Surfaces	Mert Öktem, Şahin Alp Akosman, Özge Taylan Moral, Volkan Kılıç	Mert Öktem	
83 - Fault Detection and Diagnosis on Process Control Systems Using Ensemble Learning Algorithms from Poincare Plot Measures	Emre Çancıoğlu, Savaş Şahin, Yalçın İşler	Emre Çancıoğlu	
108 - Neural Network Based Android Malware Detection with Different IP Coding Methods	Esra Calik Bayazit, Ozgur Koray Sahingoz, Buket Dogan	Esra Calik Bayazit	
124 - Evaluation of Temporal Change in Land Use in Terms of Coastal Line and Ownership: The Case of Erzin District	Fazıl Nacar	Fazıl Nacar	
137 - FPGA Design of a Fourth Order Elliptic IIR Band-Pass Filter Using LabVIEW	Güner Tatar, İhsan Çiçek, Salih Bayar	Güner Tatar	

SESSION 12.2. (VROOM2)		Date:	June 13, 2021
Chair: Ebubekir Yasar		Time (GMT+3):	6:15 pm - 7:30 pm
Paper	Author (s)	Speaker	
185 - Indoor Navigation with Visible Light Communication using Genetic Algorithm	Emre Gözüaçık, Mustafa Altıok, Levent Gökrem	Emre Gözüaçık	
180 - Test Experiment Design for IMU-Based Angle Measurement Systems	Levent Yavan, Cengiz Tepe	Levent Yavan	
218 - Effects of financial conditions on photovoltaic system design and investment process: An application on different scenarios	Onur Ozcan, Filiz Ersoz	Onur Ozcan	
109 - Deep Learning Based Object Detection and Recognition of Unmanned Aerial Vehicles	Erdem Bayhan, Zehra Ozkan, Mustafa Namdar, Arif Basgumus	Erdem Bayhan	
121 - Türkiye'nin Enerji İhtiyacını Tahmin Etmek için Jaya Algoritması'na Dayalı Yeni Bir Hibrit Yaklaşım	Ergun Uzlu	Ergun Uzlu	
126 - Assistant in Diagnosis for Doctor, Artificial Intelligence Supported Disease Detection Specialist	Ethem Karal	Ethem Karal	
81 - Lightweigh Convolutional Neural Networks for Person Re-Identification	Fatih Aksu, Cem Direkoglu	Fatih Aksu	