



HORA 2020

2nd International Congress on
**HUMAN-COMPUTER INTERACTION,
OPTIMIZATION AND ROBOTIC APPLICATIONS**

June 26-27, 2020, Turkey

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June 26-27, 2020, Turkey



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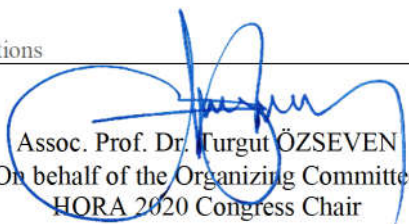


2nd International Congress on Human-Computer Interaction, Optimization and Robotic Applications

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TOPICS

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HORA 2020 ACCAPTED PAPERS

ID	Title	Author(s)	Speaker	Country
2	A collaborative learning experience in high school mathematics	Lekë Pepkolaj, Sidië Duraj	Lekë Pepkolaj	Albania
3	Time-Plan Optimization with Genetic Algorithm for Regain of Energy from Train Tracks	Büşra Tural, Metin Turan	Büşra Tural	Turkey
5	Metamaterial Based High Sensitive Milk and Liquid Sensor Application	Ibrahim Yaşar, Mehmet Bakır	Ibrahim Yaşar	Turkey
9	Yapay Sinir Ağı Kullanılarak Anomali Tabanlı Saldırı Tespit Modeli Uygulaması	Salih Karaman, Metin Turan, Muhammed Ali Aydın	Salih Karaman	Turkey
10	Web Service-Based Turkish Automatic Speech Recognition Platform	Saadin Oyucu, Hüseyin Polat, Hayri Sever	Saadin Oyucu	Turkey
14	Analyzing Classifier Performances Based on Implemented Expectation-Maximization Algorithm to Gaussian Mixture Model	Korhan Cengiz	Korhan Cengiz	Turkey
19	An ANFIS-PSO Algorithm for Predicting Four Grades of Non-Alcoholic Fatty Liver Disease	Sakineh Zeynali Goldar, Amir Rikhtegar Ghiasi, Mohammad Ali Badamchizadeh, Manouchehr Khoshbaten	Sakineh Zeynali Goldar	Iran
22	USE OF THERMAL IMAGE PROCESSING FOR MENTAL WORKLOAD ASSESSMENT	A.Hakan Yavuz, Ahmet Er	Ahmet Er	Turkey
23	A Hybrid Optimization Approach to Design Optimally Tuned PID Controller for an AVR System	Busra Ozgenc, M. Sinasi Ayas, Ismail H. Altas	Busra Ozgenc	Turkey
24	Electronic Nine-Hole Peg Test	Sabri ALTUNKAYA, Mehmet KARABACAK	Sabri ALTUNKAYA	Turkey
25	IoT Teknolojisi Kullanan Pratik ve Güvenilir Akıllı Kapı Kilidi Tasarımı	Ayşegül KALYONCU, Metin TURAN	Ayşegül KALYONCU	Turkey
26	Sulama/İlaçlama Robotu için Nesne Tanıma Çalışmaları	Haluk Özgen, Metin Turan	Haluk Özgen	Turkey
27	Odometre ve UWB Algılayıcılarını Kullanan Parçacık Süzgeci ile Konumlandırma	Pınar Oğuz Ekim	Pınar Oğuz Ekim	Turkey
28	Sigorta Müşteri Risk Gruplarının Kümeleme Yöntemi İle Analizi	Adil Seferzade, İlknur Dönmez	Adil Seferzade	Turkey
29	Smart mobile application for public transport schedules – data organization and program realization	Georgi Krastev, Valentina Voinohovska	Valentina Voinohovska	Bulgaria
33	R-SIMPLE: Reliable Stable Increased-throughput Multi-hop Protocol for Link Efficiency in Wireless Body Area Networks	Mohammed Abdulrahman Al-Obaidi, Abdullahi Abdu Ibarahim	Mohammed Abdulrahman Al-	Turkey
34	Pattern-based Short-Term Load Forecasting using Optimized ANFIS with Cuckoo Search Algorithm	Mamunu Mustapha, Sani Salisu, Abdullahi Abdu Ibrahim, Muhammad Dikko Almustapha	Abdullahi Abdu Ibrahim	Turkey
35	Video Duygu Analizi	Emre Arığ, Metin Turan	Emre Arığ	Turkey
36	Linear Quadratic optimal control for Puma Robotics	Lafta E.J. Alkurawy	Lafta E.J. Alkurawy	Iraq
37	Fuzzy Logic Application in DGA Methods to Classify Fault Type in Power Transformer	Secil Genc, Serap Karagol	Secil Genc	Turkey
38	Analysis of an Image Recognition Method on Group Activities	Cemil Zalluhoğlu	Cemil Zalluhoğlu	Turkey
39	Gaussian Applications in Organic Structured Electronic Systems	Ebru Idman, Emrah Idman, Osman Yildirim	Osman Yildirim	Turkey
40	Estimating Solar Power Plant Data Using Time Series Analysis Methods	Ebru Idman, Emrah Idman, Osman Yildirim	Osman Yildirim	Turkey
41	Cebirsel Şifrelenmiş LSB Yöntemi	Ali Karaduran, Metin Turan	Ali Karaduran	Turkey
42	An Introduction to Zero-Shot Learning: An Essential Review	Omurhan A. Soysal, Mehmet Serdar Guzel	Omurhan A. Soysal	Turkey
43	Energy Harvesting System with A Single-step Power Conversion Process Achieving Peak Efficiency of 79.1%	Rıdvan Umaz	Rıdvan Umaz	Turkey
44	Classification of Air Quality Network based on Meteorological and Pollutant Factors	Goksu Tuysuzoglu, Derya Birant, Alp Kut, Aysegul Pala	Goksu Tuysuzoglu	Turkey
45	Estimation of Air Temperature Values by Geographically and Altitudinal Weighted Regression	Murat Taşyürek, Mete Çelik	Murat Taşyürek	Turkey

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46	a Novel Energy-efficient threshold-based emergency dATA Transmission routing protocol for wireless body area network (NEAT)	Abdullahi Abdu Ibrahim, Ahmed Tijani Salawudeen, Osman Nuri Uçan, Patrick Ubeh Okorie	Abdullahi Abdu Ibrahim	Turkey
47	Study of Blockchain & Impact on Internet of Health Things(IoHT) Challenges and Opportunities	Muhammad Raza Naqvi, Muhammad Aslam, Muhammad Waseem Iqbal, Syed Khuram Shahzad, Marium Malik, Muhammad Usman Tahir	Muhammad Usman Tahir	Pakistan
48	Importance of Big Data in Precision and Personalized Medicine	Muhammad Raza Naqvi, Muhammad Arfan Jaffar, Muhammad Aslam, Muhammad Waseem Iqbal, Syed Khuram Shahzad, Amjad Farooq	Muhammad Raza Naqvi	Pakistan
49	Real-time Inferencing and Training of Artificial Neural Network for Adaptive Latency Negation in Distributed Virtual Environments	Gregory Gutmann, Akihiko Konagaya	Gregory Gutmann	Japan
51	Force Feedback Simulation Design for Fruit Hardness	Hakan Üstünel, Edip Serdar Güner, Murat Olcay Özcan, Bora Aslan	Hakan Üstünel	Turkey
52	Artificial Neural Network-Based Adaptive PID Controller Design for Vertical Takeoff and Landing Model	Ali Egemen Taşören, Alkım Gökçen, Mehmet Uğur Soydemir, Savaş Şahin	Ali Egemen Taşören	Turkey
53	Training Multi-Layer Perceptron Using Harris Hawks Optimization	Erdal Eker, Murat Kayri, Serdar Ekinci, Davut Izci	Erdal Eker	Turkey
54	Improved Manta Ray Foraging Optimization Using Opposition-based Learning for Optimization Problems	Davut Izci, Serdar Ekinci, Erdal Eker, Murat Kayri	Erdal Eker	Turkey
55	Evrışimli Sinir Ağı Mimarilerine Dayalı Türkçe Duygu Analizi	Aytuğ Onan	Aytuğ Onan	Turkey
58	Design and Implementation of An Arduino Based Smart Home	P.U. Okorie, Abdullahi Abdu Ibrahim, Dauda Auwal	P.U. Okorie	Nigeria
59	Ground Penetrating Radar Data Analysis with Nonlinear Regression on Artificial Neural Network	Reyhan Yurt, Hamid Torpi	Reyhan Yurt	Turkey
60	Görüntülü Mobil İletişimde Hologram Teknolojisinin Kullanımı	Şafak Kayıkcı, Ahmet Yürekli	Ahmet Yürekli	Turkey
61	Factors of Smart Production Processes Modernization	Simona Bukantaitė	Simona Bukantaitė	Lithuania
62	Development of Browser Extension for HTML Web Page Content Extraction	Murat Karabulut, İslam Mayda	Murat Karabulut	Turkey
63	Medium Access Control Protocol – based Energy and Quality of Service routing scheme for WBAN	Abdullahi Abdu Ibrahim, Oguz Bayat	Abdullahi Abdu Ibrahim	Turkey
64	ARM Based Hybrid Measurement System Design for Liquid Level Measurement with High Accuracy under Vibrating Case	Murat Artan, Mehmet Uğur Soydemir, Savaş Şahin	Murat Artan	Turkey
66	Flexible and Scalable Aggregation Behavior Method for Swarm Robots	Oğuz Mısır, Levent Gökrem	Oğuz Mısır	Turkey
67	Adaptive Motion Control of Modified E. Coli	Ahmet Fatih Tabak	Ahmet Fatih Tabak	Turkey
68	Performance Evaluation of Three Mobile Ad-hoc Network Routing Protocols in Different Environments	Ahmed Muhi Shantaf, Sefer Kurnaz, Alaa Hamid Mohammed	Ahmed Muhi Shantaf	Turkey
69	Clean medical data and predict heart disease	Mohammed Jasim A.Alkhafaji, Abbas Fadhil Aljuboori, Abdullahi Abdu Ibrahim	Mohammed Jasim A.Alkhafaji	Iraq

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71	A Beacon-Based Indoor Positioning System for Location Tracking of Patients in a Hospital	Georgi Shipkovenski, Teodor Kalushkov, Emiliyan Petkov, Vladislav Angelov	Teodor Kalushkov	Bulgaria
72	Modern Virtual Reality Headsets	Vladislav Angelov, Emiliyan Petkov, Georgi Shipkovenski, Teodor Kalushkov	Teodor Kalushkov	Bulgaria
74	Üniversite Bilgi Yönetim Sistemi Servis Destek Taleplerinin Konu Modelleme Tabanlı Analizi	Aytuğ ONAN, Adnan YALÇIN, Erdem ATİK	Aytuğ ONAN	Turkey
75	The Probe Into Reflection Mobile Radio Propagation	Alaa Hamid Mohammed, Ahmed Muhi Shantaf, Mohammed Khalaf	Alaa Hamid Mohammed	Iraq
76	Kapasitör Dizgisine Yönelik Görü Tabanlı Bir Algoritma	Barış Öz, Buse Sevim, Gözde Akpak, Sema Işık, Serhat Karakullukçu, Sinan Özen	Barış Öz	Turkey
77	Çok Kriterli Ürün-Tabanlı İşbirlikçi Filtrelemede Ağırlıklandırma Yöntemlerini Kullanarak Tahmin Performansının Arttırılması	Emre Sadıkoğlu, Burcu Demirelli Okkaloğlu	Emre Sadıkoğlu	Turkey
79	Applications of Digital and Computer Technologies for Control and Motion Simulation of Electromechanical Systems	Marin Zhilevski, Nikolay Bratovanov	Marin Zhilevski	Bulgaria
80	Detection of Distributed Denial of Service Attacks through a Combination of Machine Learning Algorithms over Software Defined Network Environment	Hasen AlMomin, Abdullahi Abdu Ibrahim	Hasen AlMomin	Turkey
81	Real-Time Object Detection with Simultaneous Denoising using Low-Rank and Total Variation Models	Nuha H. Abdulghafoor, Hadeel N. Abdullah	Nuha H. Abdulghafoor	Iraq
82	Design of High Precision Radix-8 MAF Unit with Reduced Latency	Bayadir A. Issa, Israa Sabri A. AL-Forati, Mohammed A. Al-Ibadi, Hayder M. Amer, Abdulmuttalib Turkey Rashid, Osama T. Rashid	Mohammed A. Al-Ibadi	Iraq
83	Energy Optimization Of Fog Computing And IoT Application	Ahmed Abbas, Abdullahi Abdu Ibrahim	Ahmed Abbas	Turkey
85	Design of Virtual Reality Browser Platform for Programming of Quantum Computers via VR Headsets	Hasan Hakan Genç, Serkan Aydın, Hasan Erdal	Hasan Hakan Genç	Turkey
86	Turkish Sentiment Analysis System via Ensemble Learning	Saed ALQARALEH	Saed ALQARALEH	Turkey
88	An Optimum Design of Square Microstrip Patch Antenna Based on Fuzzy Logic Rules	Alaa Hamid Mohammed, Mustafa Maad Hamdi, Sami Abduljabbar Rashid, Ahmed Muhi Shantaf	Alaa Hamid Mohammed	Turkey
89	Target Seeking and Obstacle Avoidance of Omni Robot in an Unknown Environment	Ruqayah R. Al-Dahhan, Mohammed Rabeea Hashim Al-Dahhan, Mustafa H. Jebur	Ruqayah R. Al-Dahhan	Iraq
90	Fuzzy Tuned PID Controller for Vibration Control of Agricultural Manipulator	Satyam Paul, Ajay Arunachalam, Davood Khodadad, Olena Rubanenko	Satyam Paul	UK
91	Evaluation DSDV, AODV and OLSR routing protocols in real live by using SUMO with NS3 simulation in VANET	Ali Muwafaq Shaban, Sefer Kurnaz, Ahmed Muhi Shantaf	Ali Muwafaq Shaban	Turkey
92	An Online Recommendation System Using Deep Learning for Textile Products	Ümit Turkut, Adem Tuncer, Hüseyin Savran, Sait Yılmaz	Ümit Turkut	Turkey
93	A Review of Applications, Characteristics and Challenges in Vehicular Ad Hoc Networks (VANETs)	Mustafa Maad Hamdi, Lukman Audah, Sami Abduljabbar Rashid, Alaa Hamid Mohammed, Sameer Alani, Ahmed Shamil Mustafa	Sameer Alani	Iraq

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95	Dört Mekanum Tekerli Mobil Robot Platformunun Geliştirilmesi ve Güvenlik Amacıyla Kullanımı	MUSA MATLI, RAİF BAYIR	MUSA MATLI	Turkey
96	An Overview on Quality of Service and Data Dissemination in VANETs	Sami Abduljabbar Rashid, Lukman Audah, Mustafa Maad Hamdi, Sameer Alani	Sami Abduljabbar Rashid	Malaysia
97	Design of Double H-Slot Microstrip Patch Triple-Band for C-Band	Hussein Ali AlhalBoosi, Sefer Kurnaz, Ahmed Muhi Shantaf	Hussein Ali AlhalBoosi	Turkey
98	Investigating the Performance of Pure Lateration in Indoor Environments Based On Varying Number of Access Points and Iterations	Korhan Cengiz	Korhan Cengiz	Turkey
99	EEG Based Identification System Design via LSTM Structure	Furkan Balcı, Zeki Oralhan	Furkan Balcı	Turkey
101	Neural Network Based Inverse Modelling for Pneumatic Artificial Muscles	Cabbar Veysel Baysal	Cabbar Veysel Baysal	Turkey
102	Control Device for Tool Magazine Drives of Vertical Machining Centers with CNC	Marin Zhilevski, Mikho Mikhov	Marin Zhilevski	Bulgaria
103	Neural networks for determining affinity functions	Valery Dmitrienko, Alexander Zakovorotniy, Sergey Leonov	Sergey Leonov	Ukraine
105	HHO Algorithm based PID Controller Design for Aircraft Pitch Angle Control System	Davut Izci, Serdar Ekinci, Ayşen Demirören, John Hedley	Davut Izci	Turkey
107	Performance Analyzing the Effect of Network Size on Routing Protocols in MANETs	Ahmed Shamil Mustafa, Mohamed Muthanna Al-Heeti, Mustafa Maad Hamdi, Ahmed Muhi Shantaf	Ahmed Muhi Shantaf	Iraq
108	An experimental study for accurate software quality prediction using machine learning	A. Ayberk Ceran, Ö. Özgür Tanrıöver	A. Ayberk Ceran	Turkey
109	An Adaptive Digital Fuzzy Control Scheme For Mechatronic Systems	Aurimas Zarnauskas, Leonas Balasevicius, Alma Derviniene, Gintaras Dervinis, Virginijus Baranauskas	Aurimas Zarnauskas	Lithuania
114	A Novel Sketch Recognition Model based on Convolutional Neural Networks	Abdullah Talha Kabakus	Abdullah Talha Kabakus	Turkey
116	Frequency Domain Features of Acceleration Signals to Evaluate Fall Risk of Elderly	Sabri ALTUNKAYA	Sabri ALTUNKAYA	Turkey
117	Particle Swarm Optimization in Swarm Robotics	Levent Türkler, L. Özlem Akkan, Taner Akkan	Levent Türkler	Turkey
118	Paper Review On Data Mining ,components, And Big Data	Sufyan Sabah Al-Rifai, Ali Muwafaq Shaban, Muhmmad Shihab Muayad Shihab, Ahmed Shamil Mustafa, Hussein Ali ALHALBOOSI, Ahmed Muhi Shantaf	Sufyan Sabah Al-Rifai	Turkey
119	RAYLEIGH LEISTUNGS RELATION AND RICIAN FADING CHANNELS IN QAM USING SIMULINK ENVIRONMENT	Ali Ghalib Mushref, Alaa Hamid Mohammed, Oguz Bayat	Ali Ghalib Mushref	Turkey
120	Energy Efficiency in 5G Massive MIMO for MobileWireless Network	Ali Hameed Ahmed , Ahmed Their Al-Heety, Belal Al-Khateeb, Alaa Hamid Mohammed	Ahmed Their Al-Heety	Malaysia
121	Li-Fi: The Future Propagation of Wireless Power Transfer in Vehicular Ad Hoc Networks	B.O. Sadiq, A.A. Olaniyan, Abdullahi Abdu Ibrahim, O.S. Zakariyya	Abdullahi Abdu Ibrahim	Turkey
122	Stabilization of Inverted Pendulum System Using Fuzzy Cognitive Map Based PD Controllers	Aykut Denizci, Cenk Ulu	Aykut Denizci	Turkey

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124	SECURE PIN AUTHENTICATION IN JAVA SMART CARD USING HONEY ENCRYPTION	Sadeq Mohammed, Sefer Kurnaz, Alaa Hamid Mohammed	Sadeq Mohammed	Turkey
125	Q-Learning for Securing Cyber-Physical Systems : A survey	Montdher Alabadi, Zafer Albayrak	Montdher Alabadi	Turkey
126	Lightweight fog based solution for privacy-preserving in IoT using blockchain	Ali Alkhazaali, Oguz Ata	Ali Alkhazaali	Turkey
128	Fuzzy Cognitive Map Based PID Controller Design	Aykut Denizci, Cenk Ulu	Aykut Denizci	Turkey
129	5G Millimeter Wave Communications for High Speed Trains	Berna Bulut	Berna Bulut	Turkey
130	Benchmark Analysis of Jetson TX2, Jetson Nano and Raspberry PI using Deep CNN	Ahmet Ali Süzen, Burhan Duman, Emine Betül Şen	Ahmet Ali Süzen	Turkey
131	Sentetik Ve Dönüştürülmüş Konuşmaların Tespitinde Genlik Ve Faz Tabanlı Spektral Özniteliklerin Kullanılması	Burak Kasapoğlu, Turgay Koç	Burak Kasapoğlu	Turkey
134	Image Acquisition with Wide-angle Camera for Sun Location Tracking	Oğuz Gora, Taner Akkan	Oğuz Gora	Turkey
135	Classification of Hand-Drawn Basic Circuit Components Using Convolutional Neural Networks	Mihriban Günay, Murat Köseoğlu, Özal Yıldırım	Mihriban Günay	Turkey
136	A Framework To Detect Brain Tumor Cells Using MRI Images	Dr. T. M. Shahriar Sazzad, Mohammad Shahjahan Majib, Dr. Md. Mahbubur Rahman	Dr. T. M. Shahriar Sazzad	Bangladesh
137	The effect of FSMM on the circular patch antenna by etching the antenna substrate with DGS method	Bülent Urul	Bülent Urul	Turkey
138	The Effect of Different Noise Levels on The Performance of The Audio Search Algorithm	Murat Köseoğlu, Hakan Uyanık	Hakan Uyanık	Turkey
140	An Image Processing Framework To Identify Rice Blast	Dr. T M Shahriar Sazzad, Ayrin Anwar, Mahiya Hasan, Md. Ismile Hossain	Dr. T M Shahriar Sazzad	Bangladesh
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143	Myo Bileklik İle Gerçek Zamanlı Protez Kol Kontrolü	Cengiz Tepe, Muhammed Erdim, İlyas Eminoğlu	Muhammed Erdim	Turkey
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