

# **2018 26th Signal Processing and Communications Applications Conference (SIU 2018)**

**Izmir, Turkey  
2-5 May 2018**

**Pages 1-672**



**IEEE Catalog Number: CFP18559-POD  
ISBN: 978-1-5386-1502-7**

**Copyright © 2018 by the Institute of Electrical and Electronics Engineers, Inc.  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP18559-POD
ISBN (Print-On-Demand):	978-1-5386-1502-7
ISBN (Online):	978-1-5386-1501-0
ISSN:	2165-0608

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# TABLE OF CONTENTS

<b>SUPERPIXEL BASED SPECTRAL CLASSIFICATION OF HYPERSPECTRAL IMAGES IN DIFFERENT COLOR SPACES</b> .....	1
<i>Yazarlar Gizlenmistir</i>	
<b>YUV BASED AUTOMATIC COLOUR CALIBRATION FOR NAO ROBOTS</b> .....	5
<i>Anastasia Bolotnikova ; Gholamreza Anbarjafari</i>	
<b>PHYSICAL LAYER SECURITY OVER CASCADED RAYLEIGH FADING CHANNELS</b> .....	9
<i>Serdar Özgür Ata</i>	
<b>DECISION TREE BASED ANDROID MALWARE DETECTION SYSTEM</b> .....	13
<i>Anil Utku ; Ibrahim Alper Dogru ; M. Ali Akcayol</i>	
<b>A NEW APPROACH FOR DISCRIMINATING THE ACOUSTIC SIGNALS: LARGEST AREA PARAMETER (LAP)</b> .....	17
<i>Haydar Ankishan ; S. Cagdas Inam</i>	
<b>A RESTAURANT RECOMMENDATION SYSTEM FOR TURKISH BASED ON USER CONVERSATIONS</b> .....	21
<i>Murat Elifoglu ; Tunga Güngör</i>	
<b>DECOMPOSITION OF OPTICAL REFLECTIONS VIA POLARIZATION TECHNIQUES</b> .....	25
<i>Muhammet Özbay ; Yakup Özkazanç</i>	
<b>A COMPARATIVE STUDY ON THE ESTIMATION OF NOISE STANDARD DEVIATION USING DATE AND TRUNCATION THRESHOLDS</b> .....	29
<i>Murat Okatan</i>	
<b>PERFORMANCE CRITERIA BASED COMPARATIVE ANALYSIS OF INDOOR LOCALIZATION TECHNOLOGIES</b> .....	33
<i>Yagmur Kirkagac ; Murat Dogruel</i>	
<b>CONTROLLING A ROBOT WITH EXTRAOCULAR MUSCLES USING EEG DEVICE</b> .....	37
<i>Cağatay Demirel ; Hasan Kandemir ; Hatice Köse</i>	
<b>A NOVEL FETAL ECG SIGNAL COMPRESSION METHOD: VARIANCE AND NEIGHBORING BASED DATA COMPRESSION</b> .....	41
<i>Murat Arican ; Kemal Polat</i>	
<b>RULE BASED ASSESSMENT OF HEARING-IMPAIRED CHILDREN'S FACIAL EXPRESSIONS</b> .....	45
<i>Turgut Can Aydinalev ; Beste Burcu Bayhan ; Hatice Köse</i>	
<b>PARTITION OF MEDICAL SIGNALS WITH A TWO BAND ADAPTIVE FILTER BANK</b> .....	49
<i>Iclal Cetin Tas ; Sami Arica</i>	
<b>GENERIC TOOLBOX FOR UNDERWATER ACOUSTIC MODELLING (GT-AQUA) AND PERFORMANCE ANALYSIS</b> .....	53
<i>Bülent Dag ; Gunes Efe ; Serdar Tugaç ; Mehmet Ali Çavuslu</i>	
<b>MOBILE SERVICE EXPERIENCE PREDICTION USING MACHINE LEARNING METHODS</b> .....	57
<i>Ibrahim Onuralp Yigit ; Selami Çiftçi ; Feyzullah Alim Kalyoncu ; Tolga Kaya</i>	
<b>GAIN ENHANCEMENT OF ANTIPODAL VIVALDI ANTENNA</b> .....	61
<i>Mehmet A. Belen ; Ilhan O. Evranos ; Filiz Günes</i>	
<b>AN APPLICATION ON THE MISSION PLANNING OF UAV SWARM</b> .....	65
<i>Ilkay Gümüşboga</i>	
<b>PHENOLOGY RECOGNITION USING DEEP LEARNING: DEEPPHENO</b> .....	69
<i>Hulya Yalcin</i>	
<b>RADIO FREQUENCY PLANNING &amp; VERIFICATION FOR REMOTE ENERGY MONITORING: A LORAWAN CASE STUDY</b> .....	73
<i>Hüseyin Gören ; Mehmet Alatas ; Onur Görgün</i>	
<b>FACIAL FEATURE REPRESENTATION AND FACE RECOGNITION WITH NEIGHBORHOOD-BASED BINARY PATTERNS</b> .....	77
<i>Abbas Memis</i>	
<b>FAST AND EFFICIENT IMPLEMENTATIONS OF CASCADE PROTOCOL</b> .....	81
<i>Metin Toyran ; Mustafa Toyran Bilgem Uekae Tiibitak ; Sitki Öztürk</i>	
<b>BITCOIN MOVEMENT PREDICTION WITH TEXT MINING</b> .....	85
<i>Kivanç Ceyhan ; Ekim Kurtulmaz ; Onur Can Sert ; Tansel Özyer</i>	
<b>DATA CLUSTERING BASED ON FCM AND WOA</b> .....	89
<i>Hatice Arslan ; Metin Toz</i>	
<b>HYBRID FCM-WOA DATA CLUSTERING ALGORITHM</b> .....	93
<i>Hatice Arslan ; Metin Toz</i>	

<b>DATA HIDING USING SHUFFLE ALGORITHM AND LSB METHOD</b> .....	97
<i>Kemal Akbay ; Mehmet Zeki Konyar ; Sümeyya Ilkin ; Adnan Sondas</i>	
<b>ACTIVITY RECOGNITION OF INTERACTING PEOPLE</b> .....	101
<i>Murat Yalçın ; Nilay Tüfek ; Hulya Yalcin</i>	
<b>COMPUTER SCIENCE TERMINOLOGY EXTRACTION FROM PARALLEL CORPORA</b> .....	105
<i>Ömer Sahin ; Alper Kurtoglu ; Gönenç Ercan</i>	
<b>FPGA-BASED IMPLEMENTATION OF BASIC IMAGE PROCESSING APPLICATIONS AS LOW-COST IP CORE</b> .....	109
<i>Mehmet Ali Altuncu ; Mehmet Muzafer Kösten ; Metaet Ali Çavuslu ; Suhap Sahin</i>	
<b>IMPLEMENTATION OF K-MEANS ALGORITHM ON FGGA</b> .....	113
<i>Mehmet Ali Altuncu ; Bahadır Türkoglu ; Mehmet Ali Çavuslu ; Suhap Sahin</i>	
<b>CLASSIFICATION OF HYPERSPECTRAL IMAGES WITH MULTIPLE KERNEL EXTREME LEARNING MACHINE</b> .....	117
<i>Ugur Ergul ; Gokhan Bilgin</i>	
<b>DEVELOPMENT OF A NOVEL FEATURE WEIGHTING METHOD USING CMA-ES OPTIMIZATION</b> .....	121
<i>Erdal Tasci ; Osman Gökcalp ; Aybars Ugur</i>	
<b>IMAGE CLASSIFICATION USING ENSEMBLE ALGORITHMS WITH DEEP LEARNING AND HAND-CRAFTED FEATURES</b> .....	125
<i>Erdal Tasci ; Aybars Ugur</i>	
<b>A MICROSTRIP PATCH ANTENNA OPERATION ON CYLINDRICAL STRUCTURES BASED ON SILICON RUBBER</b> .....	129
<i>Hilal Koç ; M. Dilruba Geyikoglu ; Fatih Kaburcuk ; Bülent Çavusoglu ; Mehmet Ertugrul</i>	
<b>GENDER CLASSIFICATION VIA WEARABLE GAIT ANALYSIS SENSOR</b> .....	133
<i>Abdülkadir Gümüşçü ; Kerim Karadag ; Mustafa Çaliskan ; Mehmet Emin Tenekeci ; Dursun Akaslan</i>	
<b>IMAGE BASED INTEGRATED ATTITUDE DETERMINATION</b> .....	137
<i>Y. Bugra Özer ; Yakup Özkazanç</i>	
<b>COMPARING THE CLASSIFICATION PERFORMANCES OF SUPERVISED CLASSIFIERS WITH BALANCED AND IMBALANCED SAR DATA SETS</b> .....	141
<i>Mustafa Üstüner ; Ünsal Gökdağ ; Gökhan Bilgin ; Füsun Balık Sanli</i>	
<b>DDC BASED CHANNELIZER DESIGN</b> .....	145
<i>Oguzhan Kosar ; Murver Kirci ; Enes Karav</i>	
<b>SIMULATION OF NONLINEAR COMPONENTS USING TRANSMISSION LINE MODEL</b> .....	149
<i>Seda Ustun Ercan ; Okan Ozgonenel</i>	
<b>SMART CLASSIFICATION OF NORMAL AND AGGRESSIVE MUSCLE ACTIONS</b> .....	153
<i>Kemal Aydemir ; Serap Aydın</i>	
<b>QOS FOR IETF 6TISCH PROTOCOL</b> .....	157
<i>Diliara Ibrahimova ; Sedat Gormus</i>	
<b>MULTIVARIATE EMPIRICAL MODE DECOMPOSITION BASED EMG SIGNAL ANALYSIS FOR SMART PROSTHESIS</b> .....	161
<i>Fatih Onay ; Ahmet Mert</i>	
<b>A LEAN APPROACH TO THE CONTROL OF LONG DISTANCE UNMANNED AERIAL VEHICLES USING DTMF SIGNALS ON GSM</b> .....	165
<i>Veysel Mehmet Karaoglu ; Muhammed Z. Karakusak</i>	
<b>WIDE AREA SCANNING TRAP CAMERA SYSTEM WITH MULTI-CAMERAS AND DISTINCTIVE MOTION DETECTION SENSOR</b> .....	169
<i>Murat Simsek ; Fikret Yalçinkaya ; Rifat Ugurlutan</i>	
<b>THE EFFECT OF FEMTOCELLS AND THE MOBILE USERS ON THE THROUGHPUT OF THE LTE-A NETWORK USING AN OPEN SOURCE SIMULATOR</b> .....	173
<i>Mohammad Abdulkhalek ; Yonal Kirsal</i>	
<b>DESIGN OF WOLA FFT BASED CHANNELIZER</b> .....	177
<i>Enes Karav ; Mürvet Kirci ; Oguzhan Kosar</i>	
<b>COMPARISON OF MACHINE LEARNING ALGORITHMS ON DIFFERENT DATASETS</b> .....	181
<i>Elif Uysal ; Ali Öztürk</i>	
<b>CHARACTER SEGMENTATION ON NATURAL IMAGES WITH GRAPH-BASED REPRESENTATION</b> .....	185
<i>Ali Köksal ; Zerrin Isik</i>	
<b>DEEP CONVOLUTIONAL NEURAL NETWORKS FOR AIRPORT DETECTION IN REMOTE SENSING IMAGES</b> .....	189
<i>Ümit Budak ; Abdulkadir Sengür ; Ugur Halici</i>	

<b>VISUALIZATION OF POWER LINES RECOGNIZED IN AERIAL IMAGES USING DEEP LEARNING.....</b>	<b>193</b>
<i>Burak Benligiray ; Ömer Neziğ Gerek</i>	
<b>CLASSIFICATION OF CERVICAL CANCER DATA AND THE EFFECT OF RANDOM SUBSPACE ALGORITHMS ON CLASSIFICATION PERFORMANCE.....</b>	<b>197</b>
<i>Okan Erkaymaz ; Tugba Palabas</i>	
<b>OCCUPANCY DETECTION FROM TEMPERATURE, HUMIDITY, LIGHT, CO2 AND HUMIDITY RATIO MEASUREMENTS USING MACHINE LEARNING TECHNIQUES.....</b>	<b>201</b>
<i>Tugba Palabas ; Kübra Eroglu</i>	
<b>FUSION OF HYPERSPECTRAL IMAGE AND LIDAR DATA AND CLASSIFICATION USING DEEP CONVOLUTIONAL NEURAL NETWORKS.....</b>	<b>205</b>
<i>Mesut Salman ; Seniha Esen Yüksel</i>	
<b>OPTIMAL CIRCULAR ARRAY DESIGN FOR DIRECTION FINDING .....</b>	<b>209</b>
<i>Fehmi Emre Kadan</i>	
<b>CAR DETECTION IN IMAGES TAKEN FROM UNMANNED AERIAL VEHICLES .....</b>	<b>213</b>
<i>Hasan Saribas ; Hakan Çevikalp ; Sinem Kahvecioglu</i>	
<b>SOME CHALLENGES FORESEEN IN 5G TECHNOLOGY .....</b>	<b>217</b>
<i>Ahmet Çil ; Salim Kahveci</i>	
<b>TEXTURAL FEATURE EXTRACTION AND ENSEMBLE OF EXTREME LEARNING MACHINES FOR HYPERSPECTRAL IMAGE CLASSIFICATION .....</b>	<b>221</b>
<i>Kadir Guzel ; Gokhan Bilgin</i>	
<b>CONTRIBUTION OF SYNTACTIC AND SEMANTIC ATTRIBUTES IN PARAPHRASE IDENTIFICATION .....</b>	<b>225</b>
<i>Bahar Karaoglan ; Tarik Kisla ; Senem Kumova Metin</i>	
<b>VEHICLE TRACKING ON VIDEO SEQUENCES VIA SUBSPACE LEARNING .....</b>	<b>229</b>
<i>Abdülhakim Gültekin ; Ismail Can Büyüktepe ; Hasan Hüseyin Sönmez ; Ali Köksal Hocaoglu</i>	
<b>TARGET TRACKING WITH PASSIVE SENSORS USING CKF .....</b>	<b>233</b>
<i>Burak Manavoglu</i>	
<b>FEATURE EXTRACTION OF EMG SIGNALS, CLASSIFICATION WITH ANN AND KNN ALGORITHMS .....</b>	<b>237</b>
<i>Çagri Çerçi ; Hakan Temeltas</i>	
<b>PERFORMANCE ANALYSIS OF INDOOR MOBILE MIMO VISIBLE LIGHT COMMUNICATIONS .....</b>	<b>241</b>
<i>Yasin Celik ; Aydin Akan</i>	
<b>A NEW USER AUTHENTICATION MECHANISM FOR IETF 6TISCH PROTOCOL .....</b>	<b>245</b>
<i>Hakan Aydin ; Sedat Görmüs</i>	
<b>A LOW-COMPLEXITY PRECODER-DECODER DESIGN IN MULTIUSER DOWNLINK MIMO COMMUNICATION SYSTEMS FOR COMMON AND PRIVATE INFORMATION TRANSMISSION .....</b>	<b>249</b>
<i>Umay Ezgi Deniz ; Çagatay Candan</i>	
<b>FUZZY LOGIC BASED MOISTURE CONTROL IN SINTER PLANT .....</b>	<b>253</b>
<i>Ahmet Beskardes ; Serkan Çevik</i>	
<b>DEVELOPMENT OF SELF NAVIGATION SYSTEM FOR MOBILE VEHICLES WITHOUT LOCATION INFORMATION .....</b>	<b>257</b>
<i>Oguzhan Akyildiz ; Ömer Faruk Bay</i>	
<b>ADAPTIVE TTC-CPM MODULATION FOR OFDM HF COMMUNICATION.....</b>	<b>261</b>
<i>Yazarlar Gizlenmistir</i>	
<b>DETECTION OF IMAGES WITH ANIMALS IN RAW CAMERA-TRAP DATA.....</b>	<b>265</b>
<i>Ulas Tekeli ; Yalin Bastanlar</i>	
<b>USER INTERACTIVE OBJECT EXTRACTION WITH SEQUENTIAL IMAGE SEGMENTATION .....</b>	<b>269</b>
<i>Ali Saglam ; Nurdan Akhan Baykan</i>	
<b>DESIGN OF PERMISSIBLE STEP AND TOUCH VOLTAGE WITH SIMULINK AND MATLAB GUIDE.....</b>	<b>273</b>
<i>Mehmet Yilmaz ; Fatih Mehmet Nuroglu</i>	
<b>CREATION AND SOLUTION OF IMAGE PROCESSING BASED CAPTCHA TEST.....</b>	<b>277</b>
<i>Onur Topaloglu ; Tunahan Bulut ; Umut Ates ; Kenan Timur ; Emre Sümer</i>	
<b>DETERMINATION OF NEWBORN JAUNDICE LEVEL BY TRANSCUTANEOUS BILIRUBIN MEASUREMENT .....</b>	<b>281</b>
<i>Yunus Karamavus ; Mehmed Özkan</i>	
<b>ANALYSIS OF DRIVING CHARACTERISTICS AND CRASH DETECTION .....</b>	<b>285</b>
<i>Murat Erat ; Ömer Sahin Karaman ; Yunus Karamavus</i>	

<b>DIGITAL RECOGNITION AND EVALUATION OF THE CLOCK DRAWING TEST</b> .....	289
<i>Kaya Oguz ; Batuhan Canlitürk ; Cem Kabar ; Onur Durukan ; Begüm Özceylan</i>	
<b>RANKING BASED BOOSTED MULTIPLE KERNEL LEARNING FOR ACTIVITY RECOGNITION ON FIRST-PERSON VIDEOS</b> .....	293
<i>Fatih Ozkan ; Elif Surer ; Alptekin Temizel</i>	
<b>AUTOMATICALLY INSERTING ADS INTO IMAGES</b> .....	297
<i>Erol Çitak ; Mustafa Furkan Eseoğlu ; Ibrahim Ömer Çelik ; Onur Disanlı ; Sezer Kutluk ; Nafiz Arica</i>	
<b>EARLY AUTISM DIAGNOSIS OF CHILDREN WITH MACHINE LEARNING ALGORITHMS</b> .....	301
<i>Fatiha Nur Büyükoğuz ; Ali Öztürk</i>	
<b>AN EXPERIMENTAL STUDY ON POWER AMPLIFIER LINEARISATION BY ARTIFICIAL NEURAL NETWORKS</b> .....	305
<i>Soner Yesil ; Ahmet Ertugrul Kolagasioglu ; Ali Özgür Yilmaz</i>	
<b>MULTIPLE UNDERWATER TARGET BEARING TRACKING USING MEMBER FILTER</b> .....	309
<i>Ahmet Gunes ; Mehmet B. Guldogan</i>	
<b>PERFORMANCE OF SUBCARRIER INTENSITY MODULATION OVER AN IMPRECISE GAMMA-GAMMA CHANNEL</b> .....	313
<i>Abdulgani Ibrahim ; Eylem Erdogan ; Tansal Gucluoglu</i>	
<b>VARIATIONAL AUTOENCODERS WITH TRIPLET LOSS FOR REPRESENTATION LEARNING</b> .....	317
<i>Çağatay Isil ; Berkan Solmaz ; Aykut Koç</i>	
<b>DENSITY-AWARE POWER ALLOCATION IN MOBILE NETWORKS USING EDGE COMPUTING</b> .....	321
<i>Shahram Mollahasani ; Ertan Onur</i>	
<b>SPECTRUM ESTIMATION OF ODOR EEG RESPONSES WITH PARAMETRIC-NONPARAMETRIC SPECTRAL ANALYSIS METHODS</b> .....	325
<i>Mesut Seker ; Mehmet Akin ; Mehmet Siraç Özerdem</i>	
<b>MULTIPLE PERIOD DETERMINATION IN CYCLO-STATIONARY SIGNALS BY MEANS OF RAMANUJAN SUBSPACES</b> .....	329
<i>Esra Saatçi ; Ertugrul Saatçi</i>	
<b>IMPROVEMENT OF ENTROPY CODING PERFORMANCE FOR MEDICAL IMAGES USING 3D PREDICTORS</b> .....	333
<i>Erdogan Aldemir ; Gülay Tohumoglu ; Ogüz Dicle ; M. Alper Selver</i>	
<b>APPLICATION OF PARAGRAPH VECTORS TO NEWS AND TWEET DATA</b> .....	337
<i>Halil Ibrahim Çelenli</i>	
<b>HEART RATE VARIABILITY ANALYSIS USING TIME AND FREQUENCY METHODS IN <math>\beta</math>-BLOKER PATIENTS</b> .....	341
<i>Yazarlar Gizlenmiştir</i>	
<b>DETECTION OF SMART PHONE POSITION ON USER USING ARTIFICIAL NEURAL NETWORK CLASSIFIER</b> .....	345
<i>Veli Bayar ; Mehmet Önder Efe</i>	
<b>CLASSIFICATION OF MOTOR IMAGINARY BASED NEAR-INFRARED SPECTROSCOPY SIGNALS</b> .....	349
<i>Ebru Ergün ; Önder Aydemir</i>	
<b>LOVE TRACE RECOGNITION SYSTEM</b> .....	353
<i>Fatma Günseli Yasar</i>	
<b>CLASSIFICATION OF ELECTROENCEPHALOGRAPHY SIGNALS RECORDED DURING OLFACTION OF SOME SPICES</b> .....	357
<i>Hilal Altun ; Ebru Ergün ; Önder Aydemir</i>	
<b>OPTIMIZATION OF PASSIVE ELECTRONIC COUNTERMEASURES TECHNIQUES AGAINST INFRARED MISSILES WITH GENETIC ALGORITHM</b> .....	361
<i>Ragip Yurttas ; Kaan Ergöz</i>	
<b>PARTITIONED ENVIRONMENTS FOR VISUAL LOCALIZATION</b> .....	365
<i>Abdulhafez Abdulhafez</i>	
<b>WIRELESS DUAL ACCELEROMETER WEARABLE SYSTEM FOR TORSO-HEAD ANGLE MEASUREMENT DURING WALKING</b> .....	369
<i>Güray Gürkan ; Kübra Önerge ; N. Ekin Akalan</i>	
<b>3D PANORAMIC IMAGING FOR CYTOPATOLOGICAL ANALYSIS IN LIGHT MICROSCOPIC SYSTEM</b> .....	373
<i>Hülya Dogan ; Elif Baykal ; Mustafa Emre Ercin ; Safak Ersöz ; Murat Ekinci</i>	
<b>BARLEY YIELD ESTIMATION WITH SENTINEL-2 VEGETATION INDICES</b> .....	377
<i>Caner Demirpolat ; Ugur Murat Leloglu</i>	

<b>PERFORMANCE EVALUATION OF EMPIRICAL MODE DECOMPOSITION AND DISCRETE WAVELET TRANSFORM FOR COMPUTERIZED HYPOXIA DETECTION AND PREDICTION</b> .....	381
<i>Zafer Cömert ; Zhang Yang ; Subha Velappan ; A. Manivanna Boopathi ; Adnan Fatih Kocamaz</i>	
<b>INTERPRETABILITY ANALYSIS FOR TURKISH WORD EMBEDDINGS</b> .....	385
<i>Lütfi Kerem Senel ; Veysel Yücesoy ; Aykut Koç ; Tolga Çukur</i>	
<b>DESIGN OF PROJECT BASED POSITIONING AND PROJECT PLANNING SYSTEM FOR MOBILE EMPLOYEE</b> .....	389
<i>Halil Arslan ; A. Gürkan Yüksek ; Osman Gün</i>	
<b>SHIP CLASSIFICATION WITH HIGH RANGE RESOLUTION RADAR</b> .....	393
<i>Özlem Ergün ; T. Bahadır Sarıkaya ; Gökhan Soysal ; Murat Efe</i>	
<b>THE INFLUENCES OF DIFFERENT WINDOW FUNCTIONS AND LENGTHS ON IMAGE-BASED TIME-FREQUENCY FEATURES OF FETAL HEART RATE SIGNALS</b> .....	397
<i>Zafer Cömert ; A. Manivanna Boopathi ; Subha Velappan ; Zhang Yang ; Adnan Fatih Kocamaz</i>	
<b>FASST: A HIGH PERFORMANCE SCALABLE RULE TABLE HARDWARE ARCHITECTURE FOR SOFTWARE DEFINED NETWORKS</b> .....	401
<i>Göksan Eral ; Ece Güran Schmidt</i>	
<b>SATELLITE IMAGE BAND REGISTRATION WITH DYNAMIC TIME WARPING AND DISCRETE WAVELET TRANSFORM</b> .....	405
<i>D. Utku Ufuk ; Ibrahim S. Açıköz ; Mustafa Teke ; A. Murat Özbayoglu</i>	
<b>DIAGNOSIS OF PROSTATE CANCER USING GENE EXPRESSION DATA</b> .....	409
<i>Kaplan Kaplan ; Hüseyin Metin Ertunç</i>	
<b>A METHOD FOR QUADRUPLET SAMPLE SELECTION IN DEEP FEATURE LEARNING</b> .....	413
<i>Kaan Karaman ; Erhan Gundogdu ; Aykut Koç ; A. Aydin Atatan</i>	
<b>THE IMPACT OF MITIGATION OF EAVESDROPPING ON WIRELESS SENSOR NETWORKS LIFETIME</b> .....	417
<i>Yıldız Karakurt ; Hüseyin Ugur Yıldız ; Bülent Tavli</i>	
<b>RF FINGERPRINTING BASED INDOOR LOCALIZATION FOR UNCOOPERATIVE EMITTERS</b> .....	421
<i>Ali Osman Kalayci ; Eren Akdemir</i>	
<b>TRAINING ARTIFICIAL NEURAL NETWORK WITH CHAOTIC CRICKET ALGORITHM</b> .....	425
<i>Murat Canayaz ; Recep Özdam</i>	
<b>CUFF-LESS CONTINUOUS BLOOD PRESSURE ESTIMATION FROM ELECTROCARDIOGRAM(ECG) AND PHOTOPLETHYSMOGRAPHY (PPG) SIGNALS WITH ARTIFICIAL NEURAL NETWORK</b> .....	429
<i>Ümit Sentürk ; Ibrahim Yücedag ; Kemal Polat</i>	
<b>FINE-GRAINED OBJECT RECOGNITION AND ZERO-SHOT LEARNING IN MULTISPECTRAL IMAGERY</b> .....	433
<i>Gencer Sümbül ; Selim Aksoy ; Ramazan Gökberk Cinbis</i>	
<b>SEMANTIC IMAGE SEGMENTATION WITH DEEP FEATURES</b> .....	437
<i>Sercan Sünetci ; Hasan F. Ates</i>	
<b>ENSEMBLE LEARNING BASED FEATURE SELECTION WITH AN APPLICATION TO TEXT CLASSIFICATION</b> .....	441
<i>Aytug Onan</i>	
<b>COMPARISON OF SEMANTIC CLASSIFICATION ALGORITHMS ON SAR IMAGES</b> .....	445
<i>İlter Türkmenli ; Koray Kayabol ; Erchan Aptoula</i>	
<b>REAL-TIME PSK TRANSCEIVER DESIGN AND IMPLEMENTATION USING SOFTWARE DEFINED RADIO</b> .....	449
<i>Mehmet Ali Zengin ; Kerem Küçük ; Sultan Aldırmaz Çolak</i>	
<b>PERFORMANCE COMPARISON OF BOOSTING CLASSIFIERS ON BREAST TERMOGRAPHY IMAGES</b> .....	453
<i>Basak Esin Köktürk Güzel ; Devrim Önder</i>	
<b>RETINAL VESSEL SEGMENTATION USING CONVOLUTIONAL NEURAL NETWORKS</b> .....	457
<i>Mehmet Seфик Güleriyüz ; Ilkay Ulusoy</i>	
<b>SPECTRUM COMPRESSION</b> .....	461
<i>Aybora Köksal ; Eren Akdemir ; Özgür Oruç</i>	
<b>ONE DIMENSIONAL MOVING OBSTACLE DETECTION METHOD FOR MOBILE ROBOTICS APPLICATIONS</b> .....	465
<i>Suat Karakaya ; Gürkan Küçükıldiz ; Hasan Ocak</i>	
<b>PARAMETER CALIBRATION WITH MODIFIED ARTIFICIAL BEE COLONIES ALGORITHM</b> .....	469
<i>Rabia Korkmaz Tan ; Sebnem Bora</i>	

<b>ECG ST SEGMENT CHANGE DETECTION USING BORN-JORDAN TIME-FREQUENCY TRANSFORM AND ARTIFICIAL NEURAL NETWORKS .....</b>	<b>473</b>
<i>Ilknur Kayikcioglu ; Cemal Köse ; Temel Kayikcioglu</i>	
<b>ANALYSIS AND CLASSIFICATION OF AIR DISC BRAKE SOUNDS IN TIME AND FREQUENCY DOMAIN .....</b>	<b>477</b>
<i>Zeynep Ertekin ; Nalan Özkurt ; Cem Yilmaz</i>	
<b>CLASSIFICATION OF WRIST MOVEMENTS IN DIFFERENT DIRECTIONS BASED ON MEG SIGNALS .....</b>	<b>481</b>
<i>Bahar Hatipoglu ; Çagatay Murat Yilmaz ; Cemal Köse ; Önder Aydemir</i>	
<b>SDR IMPLEMENTATION OF OFDM TRANSMITTER AND RECEIVER IN CASE OF TIME AND FREQUENCY OFFSET .....</b>	<b>485</b>
<i>Taner Tekin ; Bahattin Karakaya</i>	
<b>PHOTOSHOP PLUG-INS SUPPORTING VISUAL DESIGN .....</b>	<b>489</b>
<i>Gülce Bal Bozkurt ; Sibel Tari</i>	
<b>SLEEP APNEA DETECTION USING BLOOD PRESSURE SIGNAL .....</b>	<b>493</b>
<i>Mehmet Feyzi Aksahin ; Burcu Oltu ; Büsra Kübra Karaca</i>	
<b>AN ADAPTIVE RELAXED ALTERNATING DIRECTION METHOD OF MULTIPLIERS FOR COMPRESSIVE FOCAL PLANE ARRAY IMAGING .....</b>	<b>497</b>
<i>Oguzhan Fatih Kar ; Alper Güngör ; H. Emre Güven</i>	
<b>DETECTION AND EVALUATION OF ACTIVATION INSTANCES AS CHANGE POINTS IN FUNCTIONAL MR IMAGES .....</b>	<b>501</b>
<i>Cemre Candemir ; Kaya Oguz ; Serdar Korukoglu ; Ali Saffet Gönül</i>	
<b>HIGH DYNAMIC RANGE INFRARED IMAGING FOR MOVING OBJECTS .....</b>	<b>505</b>
<i>Umut Kayikci ; Emrah Oduncu ; Mustafa Sivasligil ; Berat Aytac</i>	
<b>BLOCKCHAIN APPLICATIONS IN HEALTHCARE .....</b>	<b>509</b>
<i>Ahmet Ekin ; Devrim Ünay</i>	
<b>AUTOMATIC CLASSIFICATION OF CLASSICAL MUSIC COMPOSITIONS .....</b>	<b>513</b>
<i>Tarik Taha Uygun ; Aysun Güran ; Selim Akyokus</i>	
<b>AN IMPROVEMENT ON GRABCUT INTERACTIVE SEGMENTATION METHOD BASED ON INPUT COLOR SPACES .....</b>	<b>517</b>
<i>Saffet Murat Aktürk ; Murat Aykut</i>	
<b>MASSIC PROPERTIES OF THE TE-MODES IN A LOSSLESS WAVEGUIDE .....</b>	<b>521</b>
<i>Fatih Erden ; Ahmet A. Cosan ; Oleg A. Tretyakov</i>	
<b>AUTOMATIC AERIAL TARGET RECOGNITION ON INFRARED IMAGERY .....</b>	<b>525</b>
<i>Kemal Gürkan Toker ; Oguzhan Oguz ; Oguzcan Dobrucali</i>	
<b>INCREASING SYSTEM PERFORMANCE IN MACHINE LEARNING BY USING MULTIPROCESSING .....</b>	<b>529</b>
<i>Sükrü Ozan</i>	
<b>SALIENT POINT REGION LOCAL BINARY PATTERNS DESCRIPTOR FOR TARGET TRACKING .....</b>	<b>533</b>
<i>Oguzhan Oguz ; Kemal Gürhan Toker ; Oguzcan Dobrucali ; Serdar Çakir</i>	
<b>KERNEL EXTREME LEARNING MACHINES FOR POLSAR IMAGE CLASSIFICATION USING SPATIAL FEATURES .....</b>	<b>537</b>
<i>Ünsal Gökdağ ; Mustafa Üstüner ; Gökhan Bilgin ; Füsun Balık Sanli</i>	
<b>DEVELOPMENT OF THE RESAMPLING ALGORITHM IN PARTICLE FILTERS USING GREEDY APPROACH .....</b>	<b>541</b>
<i>Ahmet Bacak ; Ali Köksal Hocaoglu</i>	
<b>EVALUATION OF FAULT TOLERANT LINK MONITORING ALGORITHMS FOR WIRELESS SENSOR NETWORKS .....</b>	<b>545</b>
<i>Yasin Yigit ; Orhan Dagdeviren</i>	
<b>COMPARISON OF NR AND UNICLUST DATABASES FOR PROTEIN SECONDARY STRUCTURE PREDICTION .....</b>	<b>549</b>
<i>Zafer Aydın ; Oguz Kaynar ; Yasin Görmez</i>	
<b>PERFORMANCE IMPROVEMENT OF AMBE 3600 BPS VOCODER WITH ADAPTIVE FORWARD ERROR CORRECTION .....</b>	<b>553</b>
<i>Ali Eksim ; Hasan Yetik</i>	
<b>USER COMFORT AND ENERGY EFFICIENCY IN HVAC SYSTEMS BY Q-LEARNING .....</b>	<b>557</b>
<i>Sajjad Baghaee ; Ilkay Ulusoy</i>	
<b>PEDESTRIAN DETECTION WITH MULTIPLE CLASSIFIERS ON STILL IMAGES .....</b>	<b>561</b>
<i>Çağlar Çavdar ; Abdullah Özek ; Bülent Bolat</i>	
<b>PERIODICITY DETECTION IN TURKISH STOCK MARKET .....</b>	<b>565</b>
<i>Ekim Kurtulmaz ; Ravsan Aziz ; Ural Uçar ; Tansel Özyer ; Reda Alhajj</i>	



<b>PASSIVE SONAR MULTIPLE TARGET TRACKING WITH DIFFERENT RESAMPLING ALGORITHMS .....</b>	<b>569</b>
<i>Erhan Ozer ; Ali Onur Akar ; Ali Köksal Hocaoglu</i>	
<b>SAE J2735 MESSAGE SUGGESTION FOR TRAFFIC LIGHT-VEHICLES COMMUNICATION .....</b>	<b>573</b>
<i>Begüm Özyılmaz ; Selçuk Paker</i>	
<b>CLUSTERING OF PARTICIPATION DEGREES OF DISTANCE LEARNING STUDENTS TO COURSE ACTIVITY BY USING FUZZY C-MEANS ALGORITHM .....</b>	<b>577</b>
<i>Ercüment Güvenç ; Gürcan Çetin</i>	
<b>ANOMALY DETECTION WITH BAYESIAN GAUSS BACKGROUND MODEL IN HYPERSPECTRAL IMAGES .....</b>	<b>581</b>
<i>Yunus Emre Sahin ; Sertaç Arisoy ; Koray Kayabol</i>	
<b>DEEP LEARNING IN ELECTRONIC WARFARE SYSTEMS: AUTOMATIC INTRA-PULSE MODULATION RECOGNITION .....</b>	<b>585</b>
<i>Fatih Çagatay Akyön ; Yasar Kemal Alp ; Gökhan Gök ; Orhan Arikan</i>	
<b>IMAGE DECONVOLUTION VIA EFFICIENT SPARSIFYING TRANSFORM LEARNING .....</b>	<b>589</b>
<i>Fatih Çagatay Akyön ; Ulas Kamaci ; Figen S. Öktem</i>	
<b>IN EMBEDDED SYSTEMS IMAGE CLASSIFICATION WITH CONVOLUTIONAL NEURAL NETWORK .....</b>	<b>593</b>
<i>Rasim Caner Çalik ; M. Fatih Demirci</i>	
<b>EFFICIENT ADAPTIVE STREAMING (EFAST): ALGORITHM, IMPLEMENTATION AND EVALUATION .....</b>	<b>597</b>
<i>Ahmet Öge ; Ece Güran Schmidt</i>	
<b>CLASSIFICATION OF ECG SIGNAL BY USING MACHINE LEARNING METHODS .....</b>	<b>601</b>
<i>Aykut Diker ; Engin Avci ; Zafer Cömert ; Derya Avci ; Emine Kaçar ; Ihsan Serhatlioglu</i>	
<b>INTELLIGENT SYSTEM BASED ON GENETIC ALGORITHM AND SUPPORT VECTOR MACHINE FOR DETECTION OF MYOCARDIAL INFARCTION FROM ECG SIGNALS .....</b>	<b>605</b>
<i>Aykut Diker ; Zafer Cömert ; Engin Avci ; Subha Velappan</i>	
<b>DETRENDED FLUCTUATION ANALYSIS OF LEAKAGE CURRENT CHARACTERISTICS OF POLYURETHANE INSULATORS .....</b>	<b>609</b>
<i>Mehmet Murat Ispirli ; Cengiz Polat Uzunoglu ; Aysel Ersoy Yilmaz ; Mukden Ugur</i>	
<b>COMPARISON OF TEXT REPRESENTATION METHODS FOR AUTHOR RECOGNITION .....</b>	<b>613</b>
<i>Yazarlar Gizlenmistir</i>	
<b>PERMISSION BASED ANDROID MALWARE DETECTION WITH MULTILAYER PERCEPTRON .....</b>	<b>617</b>
<i>Anil Utku ; Ibrahim Alper Dogru ; M. Ali Akcayol</i>	
<b>INSTANTANEOUS POWER SIGNATURE ANALYSIS FOR MISALIGNMENT FAULT DIAGNOSIS IN 3-PHASED INDUCTION MOTORS .....</b>	<b>621</b>
<i>Harun Serhat Gerçekcioglu ; Mehmet Akar</i>	
<b>SNOW FLAKE OPTIMIZATION ALGORITHM .....</b>	<b>625</b>
<i>Özgün Akkoyun ; Metin Toz</i>	
<b>UNDERWATER HUMAN BODY DETECTION USING COMPUTER VISION ALGORITHMS .....</b>	<b>629</b>
<i>Fatma Günseli Yasar ; Hüseyin Kusetogullari</i>	
<b>GENDER RECOGNITION USING INNOVATIVE PATTERN RECOGNITION TECHNIQUES .....</b>	<b>633</b>
<i>Burak Kabasakal ; Emre Sümer</i>	
<b>EFFECT OF NON-GAUSSIAN NOISE AND PRIMARY USER TRAFFIC ON DETECTION PERFORMANCE IN COGNITIVE RADIO .....</b>	<b>637</b>
<i>Timur Düzenli ; Olcay Akay</i>	
<b>MODERNIZATION OF OLD TURKISH TEXTS .....</b>	<b>641</b>
<i>Erol Özkan ; Gönenç Ercan</i>	
<b>A MOBILE APPLICATION BASED DECISION SUPPORT SYSTEM USING OXYGEN SATURATION AND PULSE RATE .....</b>	<b>645</b>
<i>Ömer Yıldız ; Sait Eser Karlik</i>	
<b>SOLDER VOID DETECTION OF BOTTOM TERMINATED COMPONENTS ON PRINTED CIRCUIT BOARD FOR LOW-RESOLUTION X-RAY IMAGES .....</b>	<b>649</b>
<i>Arda Güney ; Murat Bayraktar ; Muhammet Özcan</i>	
<b>IMAGE COMPRESSION PERFORMANCE OF HEVC INTRA PREDICTION WITH DIFFERENT TRANSFORM COEFFICIENT CODING METHODS .....</b>	<b>653</b>
<i>Serap Çekli ; Ali Akman</i>	
<b>MICRO-DOPPLER ANALYSIS OF ROTARY-WING AIR VEHICLES USING PULSED-DOPPLER RADAR .....</b>	<b>657</b>
<i>Bahadır Aybar ; Ali Özgür Yilmaz</i>	

<b>A RNN BASED TIME SERIES APPROACH FOR FORECASTING TURKISH ELECTRICITY LOAD</b> .....	661
<i>Alper Tokgöz ; Gözde Ünal</i>	
<b>EYE GAZE LOCATION DETECTION BASED ON IRIS TRACKING WITH WEB CAMERA</b> .....	665
<i>Metin Yıldız ; Muhammet Yorulmaz</i>	
<b>AUTOMATED NUCLEI DETECTION IN SEROUS EFFUSION CYTOLOGY WITH STACKED SPARSE AUTOENCODERS</b> .....	669
<i>Elif Baykal ; Hülya Dogan ; Mustafa Emre Ercin ; Safak Ersöz ; Murat Ekinci</i>	
<b>EXTENDED RANDOM JUMPS FOR CLASSIFICATION OF HYPERSPECTRAL DATA</b> .....	673
<i>Emad Mouselli ; Necip Gökhan Kasapoglu</i>	
<b>MINI GEL ELECTROPHORESIS SYSTEM BASED ON EMBEDDED SYSTEM</b> .....	677
<i>Ögr. Gör. İsmail Mersinkaya ; Ögr. Üy. Ahmet Resit Kavsaoğlu</i>	
<b>SUPERCONDUCTOR FRACTAL MICROSTRIP PATCH ANTENNA DESIGN AND SIMULATION</b> .....	681
<i>Aral Ertug Zorkun ; Ali Bozbey ; Mehmet Ünlü</i>	
<b>ROBUST DEEP LEARNING FEATURES FOR FACE RECOGNITION UNDER MISMATCHED CONDITIONS</b> .....	685
<i>Omid Abdollahi Aghdam ; Hazim Kemal Ekenel</i>	
<b>DESIGN OF AN UWB-BASED INDOOR POSITIONING SYSTEM</b> .....	689
<i>Turan Can Artunç ; Müstak Erhan Yalçın</i>	
<b>A NEW CLOUD SERVICE FOR INTERPRETING TAXI TRAJECTORIES VIA CROWDSENSING APPROACH</b> .....	693
<i>Abdulkadir Seker ; M. Amaç Güvensan</i>	
<b>AGE IDENTIFICATION FROM VOICE USING FEED-FORWARD DEEP NEURAL NETWORKS</b> .....	697
<i>Osman Büyüç ; Levent M. Arslan</i>	
<b>NO-REFERENCE EVALUATION OF 3 DIMENSIONAL VIDEO QUALITY USING SPATIAL AND FREQUENCY DOMAIN COMPONENTS</b> .....	701
<i>Hüseyin Bayrak ; Gökçe Nur Yılmaz</i>	
<b>ANALYSIS OF ASYNCHRONOUS BRAIN COMPUTER INTERFACE USING DISCRETE WAVELET TRANSFORM</b> .....	705
<i>Eda Akman Aydın ; Omer Faruk Bay ; Inan Guler</i>	
<b>IMAGE SPLICING DETECTION WITH DWT DOMAIN EXTENDED MARKOV FEATURES</b> .....	709
<i>Esra Odabas Yildirim ; Güzin Ulutas</i>	
<b>DYNAMIC FUTURE KNOWLEDGE MAXIMUM TRANSMISSION UNIT (DFK-MTU) FOR OPTIC WIRELESS NETWORKS</b> .....	713
<i>Dawson Ladislaus Msongaleli ; Kerem Kucuk</i>	
<b>INTELLIGENT SURVEILLANCE SYSTEM FOR ABANDONED LUGGAGE</b> .....	717
<i>Damla Gül Altunay ; Naciye Karademir ; Okan Topçu ; Cem Direkoglu</i>	
<b>SOCIAL ROBOT NAVIGATION IN HUMAN-ROBOT INTERACTIVE ENVIRONMENTS: SOCIAL FORCE MODEL APPROACH</b> .....	721
<i>Hasan Kivrak ; Hatice Köse</i>	
<b>VIRTUAL REALITY BASED 9 HOLE PEG TEST</b> .....	725
<i>Pinar Tüfekçi ; Halil İbrahim Güngör ; Alican Yılmaz</i>	
<b>NON-COALESCECED ACCESS PATTERNS OF GLOBAL MEMORY LOAD TRANSACTIONS IN METROPOLIS RESAMPLING IMPLEMENTED ON GRAPHICS PROCESSING UNIT</b> .....	729
<i>Özcan Dülger ; Halit Oğuztüçün</i>	
<b>ANALYSIS OF ATTACK AND ATTACKERS ON VOIP HONEYPOT ENVIRONMENT</b> .....	733
<i>H. Hakan Kılınç ; Omer Faruk Acar</i>	
<b>DESIGN OF A PEDESTRIAN DEAD-RECKONING SYSTEM AND COMPARISON OF METHODS ON THE SYSTEM</b> .....	737
<i>Ozan Vahit Altınpınar ; Müstak Erhan Yalçın</i>	
<b>THE IMPACT OF DATA FRAGMENTATION ON NETWORK LIFETIME IN UNDERWATER ACOUSTIC SENSOR NETWORKS</b> .....	741
<i>Hüseyin Ugur Yıldız</i>	
<b>ACCELERATING GENE IDENTIFICATION IN DNA SEQUENCES WITH CUDA AND OPENCL</b> .....	745
<i>İbrahim Savran ; Elif Aras ; Gökhan Uzer ; Shaafici Abdi</i>	
<b>A NEW ERROR CORRECTION ALGORITHM FOR GENOME SEQUENCES AND THE PERFORMANCE OF THE IMPLEMENTATION</b> .....	749
<i>Elif Aras ; İbrahim Savran ; Shaafici Abdi ; Gökhan Uzer</i>	
<b>A FUZZY LOGIC BASED VISUAL SERVO CONTROL SYSTEM FOR QUADROTORS</b> .....	753
<i>Tolga Yüksel ; İdil Isikli Esener</i>	

<b>APPLICATION OF GENETIC ALGORITHM FOR EGG GENDER DETERMINATION</b> .....	757
<i>Ünsal Gökdağ ; Esra Çınar</i>	
<b>ANALYSIS OF MEASUREMENT INSTRUMENTATION DELAY IN MODULAR EXPERIMENTAL RADAR AT C BAND</b> .....	761
<i>Mahfoud Y. A. Abdulrazzigh ; Emre Uzundurukan ; Ali Kara</i>	
<b>OPTIC DISC DETERMINATION IN RETINAL IMAGES WITH DEEP FEATURES</b> .....	765
<i>Abdulkadir Sengür ; Beyza Nur Akilotu ; Seda Arslan Tuncer ; Zehra Kadiroglu ; Semih Yavuzkiliç ; Ümit Budak ; Erkan Deniz</i>	
<b>FEMORAL HEAD DETECTION IN PERTHES MR SLICES WITH CIRCULAR HOUGH TRANSFORM</b> .....	769
<i>Abbas Memis ; Songül Albayrak ; Fuat Bilgili</i>	
<b>AN INVESTIGATION OF THE EFFECTS OF DIFFERENT UW SEQUENCES ON THE PAPR PERFORMANCE OF UW-OFDM SYSTEMS</b> .....	773
<i>Mustafa Özden ; Cengizhan Ülkü ; Ali Özen</i>	
<b>THE IMPACT OF UNDER-SAMPLING ON THE PERFORMANCE OF BOOTSTRAP-BASED ENSEMBLE FEATURE SELECTION</b> .....	777
<i>Hüseyin Güney ; Hüseyin Öztoprak</i>	
<b>COMPARISON OF KALMAN FILTER AND CONVERTED MEASUREMENTS KALMAN FILTER FOR INTERACTING MULTIPLE MODEL</b> .....	781
<i>Kübra Turgut ; Ali Köksal Hocaoglu</i>	
<b>EVALUATION OF SINGLE-CHANNEL SPEECH ENHANCEMENT ALGORITHMS BY USING OBJECTIVE QUALITY AND INTELLIGIBILITY MEASURES</b> .....	785
<i>Özkan Arslan ; Erkan Zeki Engin</i>	
<b>RECOGNITION OF BIOMETRIE UNLOCK PATTERN BY GMM-UBM</b> .....	789
<i>M. Erdal Özbek ; Mohamed Amine Haytom ; Estelle Cherrier</i>	
<b>EMOTION RECOGNITION ON STATIC IMAGES USING DEEP TRANSFER LEARNING AND ENSEMBLING</b> .....	793
<i>Hüseyin Abanoz ; Zehra Çataltepe</i>	
<b>SPAM/HAM E-MAIL CLASSIFICATION USING MACHINE LEARNING METHODS BASED ON BAG OF WORDS TECHNIQUE</b> .....	797
<i>Esra Sahin ; Murat Aydos ; Fatih Orhan</i>	
<b>STATISTICAL MEASURES: PROMISING FEATURES FOR TIME SERIES BASED DDOS ATTACK DETECTION</b> .....	801
<i>Cemil Eren Kayatas ; Ramin Fadaei Fouladi ; Orhan Ermis ; Emin Anarim</i>	
<b>FULLY AUTONOMOUS MINI/MICRO SCALE UAV FIELD EXPERIENCES AND IMAGE PROCESSING APPLICATIONS</b> .....	805
<i>Dilek Basaran Bil ; Erhan Ilhan Konukseven</i>	
<b>FACIAL ACTION UNIT DETECTION USING DEEP NEURAL NETWORKS IN VIDEOS</b> .....	809
<i>Simge Akay ; Nafiz Arica</i>	
<b>PROCEDURAL MODELING OF MOSQUES</b> .....	813
<i>Elif Yayla ; Abdullah Bülbul</i>	
<b>CLASSIFICATION OF PEDIATRIC SNORING EPISODES USING DEEP CONVOLUTIONAL NEURAL NETWORKS</b> .....	817
<i>Ozan Firat Civaner ; Mustafa Kamasak</i>	
<b>CREDIT RISK ANALYSIS USING MACHINE LEARNING ALGORITHMS</b> .....	821
<i>Sacide Kalayci ; Mustafa Kamasak ; Seçil Arslan</i>	
<b>A NOVEL PAN SHARPENING METHOD VIA SPARSE REPRESENTATION OVER LEARNED DICTIONARY</b> .....	825
<i>Selen Ayas ; Esra Tunç Görmiş ; Murat Ekinci</i>	
<b>EDGE AND CENTER SYMMETRIC DUAL CROSS PATTERN BASED SHAPE RECOGNITION MODEL</b> .....	829
<i>Türker Tuncer</i>	
<b>SPECIFICATION BASED AUTOMATIC PRODUCT CATEGORIZATION FROM UNSTRUCTURED DATA</b> .....	834
<i>Alisettar Hüseyinli ; Oktay Yıldız ; M. Ali Akcayol</i>	
<b>A COMPARISON OF FACIAL LANDMARK DETECTION METHODS</b> .....	838
<i>Esra Nur Sandıkcı ; Çigdem Eroglu Erdem ; Sezer Ulukaya</i>	
<b>THE INFORMATION REVEALED BY PROCESSING SEMANTIC TOPICS EXTRACTED FROM COLLECTIVE SHORT POSTS</b> .....	842
<i>Ahmet Yildirim ; Suzan Üsküdarlı</i>	
<b>DATA-DRIVEN ANOMALY DETECTION IN AUTONOMOUS PLATOON</b> .....	846
<i>Seyhan Uçar ; Sinem Çöleri Ergen ; Öznur Özkasap</i>	

<b>INVERSE DESIGN OF NEXT-GENERATION NANOPHOTONIC DEVICES</b> .....	850
<i>Mediha Tutgun ; Yusuf Abdülaziz Yilmaz ; Aydan Yeltik ; Döne Yilmaz ; Ahmet Mesut Alpkiliç ; Hamza Kurt</i>	
<b>CLASSIFICATION OF HEART SOUNDS WITH RE-SAMPLED ENERGY METHOD</b> .....	854
<i>Ömer Deperlioglu</i>	
<b>YESILCAMGAN: AUTOMATIC FACE TRANSLATION TO YESILCAM ARTISTS</b> .....	858
<i>Savas Özkan ; Gözde Bozdağı Akar</i>	
<b>COPY MOVE FORGERY DETECTION WITH USING FAST KEY POINTS AND SIFT DESCRIPTION VECTORS</b> .....	862
<i>Ali Mumcu ; Ibrahim Savran</i>	
<b>USING CORRELATION MATRIX TO DETECT FRAME DUPLICATION FORGERY IN VIDEOS</b> .....	866
<i>Beste Üstübioglu ; Güzin Ulutas ; V. Vasif Nabiyev ; Mustafa Ulutas ; Arda Üstübioglu</i>	
<b>DEEP LEARNING APPROACH FOR AUTHOR VERIFICATION PROBLEM ON TWITTER</b> .....	870
<i>Murat Yilmaz ; Begum Mutlu ; Anil Utku ; M. Ali Akcayol</i>	
<b>HEAT LEAKAGE DETECTION AND SURVEILLANCE USING AERIAL THERMOGRAPHY DRONE</b> .....	874
<i>Hakan Kayan ; Raheleh Eslampanah ; Faezeh Yeganli ; Murat Askar</i>	
<b>APPROACHES FOR REDUCING THE COMPUTATIONAL BUDGET OF THE METROPOLIS HASTINGS ALGORITHM</b> .....	878
<i>Bugrahan Sahin ; Ali Taylan Cemgil</i>	
<b>A COMPARATIVE ANALYSIS OF CHANNEL CODING FOR MOLECULAR COMMUNICATION</b> .....	882
<i>Ahmet Oguz Kislal ; Ali Emre Pusane ; Tuna Tugcu</i>	
<b>CLASSIFICATION OF RETINAL IMAGES WITH DEEP LEARNING FOR EARLY DETECTION OF DIABETIC RETINOPATHY DISEASE</b> .....	886
<i>Nursel Yalçın ; Seyfullah Alver ; Necla Uluhatur</i>	
<b>REGISTRATION OF PUSH BROOM HYPERSPECTRAL CAMERA AERIAL IMAGES</b> .....	890
<i>Yunus Emre Esin ; Safak Öztürk ; Ömer Özdil ; Berkan Demirel</i>	
<b>DEVELOPMENT OF A TEST INFRASTRUCTURE ANALYZING THE EFFECTS OF NON-LINEAR POWER AMPLIFIERS ON COMMUNICATION SIGNALS</b> .....	894
<i>Ufuk Tamer ; Mehmet Kabasakal</i>	
<b>MACHINE LEARNING BASED SMARTPHONE SPECTROMETER FOR HARMFUL DYES DETECTION IN WATER</b> .....	898
<i>Ali Yener Mutlu ; Volkan Kiliç</i>	
<b>AN ANOMALY DETECTION SYSTEM PROPOSAL TO ENSURE INFORMATION SECURITY FOR FILE INTEGRATIONS</b> .....	902
<i>Ibrahim Üzümlü ; Özgü Can</i>	
<b>ISOLATED SIGN LANGUAGE RECOGNITION WITH FAST HAND DESCRIPTORS</b> .....	906
<i>Ogulcan Özdemir ; Ahmet Alp Kindiroglu ; Lale Akarun</i>	
<b>MENISCUS TEAR CLASSIFICATION USING HISTOGRAM OF ORIENTED GRADIENTS IN KNEE MR IMAGES</b> .....	910
<i>Ahmet Saygılı ; Songül Albayrak</i>	
<b>FAST AND ACCURATE CLASSIFIER-BASED BRAIN-COMPUTER INTERFACE SYSTEM USING SINGLE CHANNEL EEG DATA</b> .....	914
<i>Masoud Maleki ; Negin Manshouri ; Temel Kayikçioğlu</i>	
<b>PASSIVE GEOLOCATION USING PHASE DIFFERENCE RATE FOR ELECTRONIC SUPPORT SYSTEMS</b> .....	918
<i>Gonca Gül Güngör ; Adnan Orduyılmaz ; Mahmut Serin</i>	
<b>AN ANDROID-BASED IOT SYSTEM FOR VEHICLE MONITORING AND DIAGNOSTIC</b> .....	922
<i>Ercüment Türk ; Moharram Challenger</i>	
<b>SUPERPOSITION BASED MOLECULAR COMMUNICATIONS IN NANOMACHINE SWARMS</b> .....	926
<i>Mustafa Can Gürsoy ; Ali Emre Pusane ; Tuna Tugcu</i>	
<b>FILE FRAGMENT TYPE DETECTION BY NEURAL NETWORK</b> .....	930
<i>Ayşe Siddika Aydogdu Erozan</i>	
<b>REAL-TIME PULSE COUNTING USING PALM IMAGES</b> .....	934
<i>Orhan Baris Gangal ; Mehmet Öztürk</i>	
<b>SHIP LOCATION ESTIMATION FROM RADAR AND OPTIC IMAGES USING METRIC LEARNING</b> .....	938
<i>Muhammed Maruf Kiliç ; Yusuf Sinan Akgül</i>	
<b>PANIC DETECTION BY REGIONAL VELOCITY CHANGES IN CROWDED AREAS FROM SURVEILLANCE VIDEO</b> .....	942
<i>Hürkal Hüsem ; M. Elif Karşilgil</i>	

<b>SEGMENTATION OF LIVE AND DEAD CELLS IN TISSUE SCAFFOLDS</b> .....	946
<i>Tansel Uyar ; Aykut Erdamar ; Mehmet F. Aksahin ; Menemse Gümüşdereioğlu ; Gülseren Irmak ; Osman Eroglu</i>	
<b>RECOGNITION OF SIGN LANGUAGE USING CAPSULE NETWORKS</b> .....	950
<i>Fuat Beser ; Merve Ayyüce Kızrak ; Bülent Bolat ; Tülay Yildirim</i>	
<b>PERFORMANCE OF PSO BASED CLASSICAL AND FRACTIONAL PID CONTROLLERS FOR AN UNMANNED SURFACE VEHICLE</b> .....	954
<i>Mustafa Sinasi Ayas ; Erdiñç Sahin ; Ismail Hakki Altas</i>	
<b>COMPARISON OF TRUNCATION THRESHOLDS WITH FOUR DIFFERENT ROBUST SCALE ESTIMATORS</b> .....	958
<i>Murat Okatan</i>	
<b>REVIEW SPAM DETECTION BASED ON PSYCHOLOGICAL AND LINGUISTIC FEATURES</b> .....	962
<i>Aytug Onan</i>	
<b>REAL-TIME THREE-DIMENSIONAL IMAGE RECONSTRUCTION USING ALTERNATING DIRECTION METHOD OF MULTIPLIERS FOR MAGNETIC PARTICLE IMAGING</b> .....	966
<i>Serhat Ilbey ; Alper Güngör ; Can Baris Top ; Emine Ülkü Saritas ; H. Emre Güven</i>	
<b>DESIGN AND IMPLEMENTATION OF 24 GHZ FMCW TRAFFIC RADAR</b> .....	970
<i>Ozan Dogan ; Mehmet Abbak ; Hüseyin Burak Önen ; Muhammed Hanseref Yasin ; Ömer Esas ; Umut Aydın</i>	
<b>DETECTING SIMILAR SENTENCES USING WORD EMBEDDING</b> .....	974
<i>Mehmet Ali Arabaci ; Ersin Esen ; Muhammed Selim Atar ; Eyüp Yilmaz ; Batuhan Kaltalioglu</i>	
<b>LARGE SCALE AD CLICK PREDICTION SYSTEM</b> .....	978
<i>Irem Islek ; Ertug Karamatli ; Ali Taylan Cemgil</i>	
<b>THE PERFORMANCE EVALUATION OF HISTOGRAM OF ORIENTED GRADIENTS AS A FEATURE ON VESSELS DETECTION USING ARTIFICIAL NEURAL NETWORK</b> .....	982
<i>Ibrahim Atli ; O. Serdar Gedik</i>	
<b>POWER SPECTRUM ANALYSIS OF EEG FOR WATCHING 2D &amp; 3D VIDEOS AND RESTING STATE</b> .....	986
<i>Negin Manshourji ; Masoud Maleki ; Temel Kayikçioğlu</i>	
<b>MEASUREMENT OF RASPBERRY PI PERFORMANCE IN NETWORK TRAFFIC ANALYSIS</b> .....	990
<i>Mustafa Cosar ; Harun Emre Kiran</i>	
<b>ACTIVE SELECTION OF ELEMENTS FOR BAYESIAN NONNEGATIVE MATRIX FACTORIZATION</b> .....	994
<i>Burak Suyunu ; Gönül Aya ; A. Taylan Cemgil</i>	
<b>CREDIT RISK ANALYSIS WITH CLASSIFICATION RESTRICTED BOLTZMANN MACHINE</b> .....	998
<i>Mustafa Bayraktar ; Mehmet S. Aktas ; Oya Kalipsiz ; Orkun Susuz ; Selçuk Bayraci</i>	
<b>CHOOSE OF WART TREATMENT METHOD USING NAIVE BAYES AND K-NEAREST NEIGHBORS CLASSIFIERS</b> .....	1002
<i>Ruhiye Uzun ; Yalçin Isler ; Mualla Toksan</i>	
<b>COMBAT MOBILE MALWARE VIA N-GRAM BASED DEEP LEARNING</b> .....	1006
<i>Burak Düşün ; İrfan Bulut ; R. Can Aygün ; A. Gökhan Yavuz</i>	
<b>OPTICAL FILTER PERFORMANCE ANALYSIS IN FIBER OPTIC NETWORK SYSTEMS</b> .....	1010
<i>Arif Dolma ; Merve Çiraci</i>	
<b>DATA TRANSMISSION ANALYSIS OF DWDM AND SDH</b> .....	1014
<i>Arif Dolma ; Mücahid Kiraz</i>	
<b>TCAM-AWARE MULTI TOPOLOGY ROUTING BASED FAILURE PROTECTION FOR SOFTWARE DEFINED NETWORKS</b> .....	1018
<i>Selçuk Cevher ; Ibrahim Hökelek</i>	
<b>UNSHARP MASKING BASED PANSHARPENING OF HIGH RESOLUTION SATELLITE IMAGERY</b> .....	1022
<i>Mustafa Teke ; Ezgi San ; Ezgi Koç</i>	
<b>JOINT PARTIAL FOURIER AND COMPRESSED SENSING RECONSTRUCTION FOR ACCELERATED TIME-OF-FLIGHT MR ANGIOGRAPHY</b> .....	1026
<i>Toygan Kiliç ; Tolga Çukur ; Oktay Algin ; Emine Ülkü Saritas</i>	
<b>CREDIT RISK ANALYSIS BASED ON HYBRID CLASSIFICATION: CASE STUDIES ON GERMAN AND TURKISH CREDIT DATASETS</b> .....	1030
<i>Erkan Çetiner ; Taskin Koçak ; V. Çağrı Güngör</i>	
<b>THE EFFECTIVENESS OF FEATURE SELECTION METHODS ON PHYSICAL ACTIVITY RECOGNITION</b> .....	1034
<i>Gökhan Memis ; Mustafa Sert</i>	
<b>SECURITY ANALYSIS OF HAMMING CODES IN RELAY AIDED NETWORKS</b> .....	1038
<i>Mehmet Özgün Demir ; Günes Karabulut Kurt ; Guido Dartmann ; Gerd Ascheid ; Ali Emre Pusane</i>	
<b>A NOVEL ADAPTIVE VARIABLE FORGETTING FACTOR RLS ALGORITHM</b> .....	1042
<i>Meryem Maras ; Elif Nur Ayvaz ; Ali Özen</i>	

<b>USING SINGLE-AND MULTI-TARGET REGRESSION TO ESTIMATE BIOPHYSICAL PARAMETERS OF CROPS .....</b>	<b>1046</b>
<i>Z. Meltem Sahin ; Esra Erten ; Nebiye Musaoglu ; D. Ekin Canbay ; Gülsen Kaya</i>	
<b>A NEW APPROACH FOR COEXISTENCE OF IEEE 802.11AF AND IEEE 802.22 SYSTEMS .....</b>	<b>1050</b>
<i>Oguz Ülgen ; Tunçer Baykas ; Serhat Erkiçik</i>	
<b>THE RELATION BETWEEN ISOTROPY OF WAVEFORMS AND INTERFERENCE CANCELLATION METHOD FOR OFDM/OQAM .....</b>	<b>1054</b>
<i>Umut Kayikçi ; Emre Aktas</i>	
<b>DETERMINATION OF LAND REGIONS WITH SEGMENTATION IN RADAR VIDEO IMAGE .....</b>	<b>1058</b>
<i>Sümeyle Nur Akaydin ; Gökhan Soysal ; Tevfik Bahadır Sarıkaya</i>	
<b>DESIGN OF SMARTWATCH-ASSISTED FALL DETECTION SYSTEM VIA SMARTPHONE .....</b>	<b>1062</b>
<i>Serkan Balli ; Ensar Arif Sagbas ; Serdar Korukoglu</i>	
<b>DME/DME POSITION AND VELOCITY ESTIMATION .....</b>	<b>1066</b>
<i>Kaan Sezginer ; Mustafa Gül ; Alican Beköz ; Y. Bugra Özer ; Cosku Kasnakoglu</i>	
<b>HYBRID QRM-MLD-MMSE WITH SIC ADAPTIVE MULTIUSER DETECTION FOR SDMA-OFDM SYSTEMS .....</b>	<b>1070</b>
<i>Ugur Yesilyurt</i>	
<b>BIOMEDICAL INFORMATICS FROM BIG DATA PERSPECTIVE: EXPECTATIONS AND CHALLENGES .....</b>	<b>1074</b>
<i>Ismail Mersinkaya ; Gülay Ekren</i>	
<b>SKETCH CLASSIFICATION WITH DEEP LEARNING MODELS .....</b>	<b>1078</b>
<i>Fevziye Irem Eyiokur ; Dogucan Yaman ; Hazim Kemal Ekenel</i>	
<b>WAVELET TRANSFORM AND SIGNAL DENOISING USING WAVELET METHOD .....</b>	<b>1082</b>
<i>Çigdem Polat Dautov ; Mehmet Siraç Özerdem</i>	
<b>EPILEPSY DETECTION USING A NAIVE SIGNAL DECOMPOSITION METHOD COMBINED WITH FRACTAL DIMENSION .....</b>	<b>1086</b>
<i>Çigdem Polat Dautov ; Mehmet Siraç Özerdem</i>	
<b>A LANE KEEPING SYSTEM WITH A WEIGHTED PREVIEW MEASUREMENT .....</b>	<b>1090</b>
<i>Kivanç Saraçoğlu ; Bugra Üles ; Klaus Werner Schmidt</i>	
<b>SPHERICAL HELICAL ANTENNA DESIGN AT L-BAND .....</b>	<b>1094</b>
<i>Ertug Erdem ; Birsen Saka</i>	
<b>MACHINE LEARNING BASED CLASSIFICATION OF VIOLIN AND VIOLA INSTRUMENT SOUNDS FOR THE SAME NOTES .....</b>	<b>1098</b>
<i>Kemal Avci ; Murat Arican ; Kemal Polat</i>	
<b>FEATURE SELECTION FOR ECG BEAT CLASSIFICATION USING GENETIC ALGORITHMS WITH A MULTI-OBJECTIVE APPROACH .....</b>	<b>1102</b>
<i>Çagla Sarvan ; Nalan Özkurt</i>	
<b>ELECTROMAGNETIC RADIATION ANALYSIS OF IMPLEMENTATION OF RSA ALGORITHM ON A RASPBERRY PI .....</b>	<b>1106</b>
<i>Ersin Hatun ; Elif Büyükkaya ; Siddika Berna Örs Yalçin</i>	
<b>ON THE BIT-ERROR RATE OF BINARY PHASE SHIFT KEYING OVER ADDITIVE WHITE GENERALIZED LAPLACIAN NOISE (AWGLN) CHANNELS .....</b>	<b>1110</b>
<i>Ferkan Yilmaz ; Mohamed-Slim Alouini</i>	
<b>GENERATING PERSON IMAGES BASED ON ATTRIBUTES .....</b>	<b>1114</b>
<i>Mehmet Günel ; Erkut Erdem ; Aykut Erdem</i>	
<b>INDOOR POSITIONING USING FEDERATED KALMAN FILTER .....</b>	<b>1118</b>
<i>Tank Ayabakan ; Feza Kerestecioglu</i>	
<b>NEXT-GENERATION DATA STORAGE: TRANSISTOR AND DNA .....</b>	<b>1122</b>
<i>Reza A. Ashrafi ; Ali E. Pusane ; Suayb S. Arslan</i>	
<b>DESIGN AND IMPLEMENTATION OF HIGH EFFICIENT ZIGBEE BASED ADAPTIVE ENERGY MANAGEMENT SYSTEM FOR SMART OFFICES .....</b>	<b>1126</b>
<i>Murat Erat ; Hasari Çelebi</i>	
<b>AN OVERVIEW OF ARTIFICIAL INTELLIGENCE BASED CHATBOTS AND AN EXAMPLE CHATBOT APPLICATION .....</b>	<b>1130</b>
<i>Naz Albayrak ; Aydeniz Özdemir ; Engin Zeydan</i>	
<b>IMAGE CAPTIONING IN TURKISH WITH SUBWORD UNITS .....</b>	<b>1134</b>
<i>Menekse Kuyu ; Aykut Erdem ; Erkut Erdem</i>	
<b>MOVEMENT BASED CONNECTIVITY RESTORATION SYSTEM FOR WIRELESS SENSOR AND ACTOR NETWORKS .....</b>	<b>1138</b>
<i>Vahid Khalilpour Akram ; Yasin Yigit ; Orhan Dagdeviren</i>	

<b>A NEW APPROACH FOR ELECTRONIC DESIGN AUTOMATION OF ANALOG BUILDING BLOCKS</b> .....	1142
<i>Ersin Alaybeyoglu ; Faruk Ugranli</i>	
<b>A NEW CIRCUIT DESIGN FOR THE CAPACITOR MULTIPLIER WITH CELL-BASED VARIABLE TRANSDUCTANCE AMPLIFIER</b> .....	1146
<i>Ersin Alaybeyoglu</i>	
<b>A USEFUL LEMMA FOR BIT ERROR RATE OF THE NOISE IMBALANCED MRC COMBINING OVER CORRELATED AND UNCORRELATED FADING CHANNELS</b> .....	1150
<i>Ferkan Yilmaz ; Mohamed-Slim Alouini</i>	
<b>AUTHORSHIP MODELLING APPROACH FOR AUTHORSHIP VERIFICATION ON THE TURKISH TEXTS</b> .....	1154
<i>Pelin Canbay ; Ebru Akçapinar Sezer ; Hayri Sever</i>	
<b>ANALYSIS AND OPTIMIZATION OF WIDEBAND RADOMES</b> .....	1158
<i>Ismail Çor ; Birsen Saka</i>	
<b>FM CHANNEL MODEL DEVELOPMENT AND ITS EMULATOR</b> .....	1162
<i>Ahmed Hossam Mohammed ; Mehmet Kemal Ozdemir</i>	
<b>RISK-AVERSE AMBULANCE REDEPLOYMENT VIA MULTI-ARMED BANDITS</b> .....	1166
<i>Ümitcan Sahin ; Veysel Yücesoy ; Aykut Koç ; Cem Tekin</i>	
<b>ANALYSIS AND APPLICATIONS OF FIBER BRAGG GRATINGS</b> .....	1170
<i>Süleyman Alkoçak ; N. Özlem Ünverdi</i>	
<b>IMAGE CLASSIFICATION USING MANIFOLD LEARNING BASED NON-LINEAR DIMENSIONALITY REDUCTION</b> .....	1174
<i>Ainuddin Faaeq ; Hüseyin Gürüler ; Musa Peker</i>	
<b>APPLICATIONS OF FTTX TECHNOLOGY IN OPTICAL COMMUNICATION SYSTEMS</b> .....	1178
<i>Damla Kiyicioglu ; N. Özlem Ünverdi</i>	
<b>A COMPARATIVE STUDY ON SUPER RESOLUTION WITH DEEP LEARNING</b> .....	1182
<i>Hakan Temiz ; Aslihan Tüfekci ; Hasan Sakir Bilge</i>	
<b>VEHICLE LOCATION ESTIMATION USING AIR PRESSURE MEASUREMENTS</b> .....	1186
<i>Gieliz Chatip ; Ferkan Yilmaz</i>	
<b>EM/SAGE ALGORITHM BASED ITERATIVE CHANNEL ESTIMATION IN MULTI-CELL MASSIVE MIMO SYSTEMS</b> .....	1190
<i>Senol Sançar ; Bahattin Karakaya</i>	
<b>AUTOMATIC COLOR ACCURACY TESTS FOR CAMERA PERFORMANCE COMPARISON</b> .....	1194
<i>Alican Hasarpa ; Gözde Bozdağı Akar</i>	
<b>APPLICATION OF ARTIFICIAL NEURAL NETWORKS IN DEMENTIA AND ALZHEIMER'S DIAGNOSIS</b> .....	1198
<i>Altug Yigit ; Zerrin Isik</i>	
<b>A VIRTUAL REALITY APPLICATION ENRICHED WITH FOOD TAXONOMY</b> .....	1202
<i>Alper Kanak ; Ali Yasin Erdogan ; Berke Can Yilmaz</i>	
<b>PERFORMANCE ANALYSIS OF PARTIAL SELF ORGANIZING MAPS FOR RADAR SIGNAL CLUSTERING IN ELECTRONIC WARFARE</b> .....	1206
<i>Mustafa Atahan Nuhoglu ; Berkin Yildirim</i>	
<b>CLASSIFICATION OF HEART SOUND RECORDINGS WITH CONTINUOUS WAVELET TRANSFORM BASED ALGORITHM</b> .....	1210
<i>Büsra Kübra Karaca ; Burcu Oltu ; Tugçe Kantar ; Erkin Kiliç ; Mehmet Feyzi Aksahin ; Aykut Erdamar</i>	
<b>QUEUE-BASED SEQUENTIAL CLUSTERING METHOD FOR INTERVAL DATASETS</b> .....	1214
<i>Fuat Çogun ; Fatih Altıparmak ; Halim Sinan Balaban</i>	
<b>CLASSIFICATION OF RADAR SIGNAL FEATURES IN ELECTRONIC WARFARE WITH CONVOLUTIONAL LONG-SHORT TIME MEMORY</b> .....	1218
<i>Mustafa Atahan Nuhoglu</i>	
<b>CLASSIFICATION OF EPILEPTIC EEG DATA BY USING ENSEMBLE EMPIRICAL MODE DECOMPOSITION</b> .....	1222
<i>Özlem Karabiber Cura ; Sibel Kocaaslan Atli ; Reza Sadighzadeh ; Aydin Akan</i>	
<b>ENERGY-EFFICIENT UTILIZATION OF DIFFERENT FREQUENCY BANDS FOR GREEN CELLULAR NETWORKS</b> .....	1226
<i>Ahmet Burak Özyurt ; Arda Hiz ; Lütfiye Durak Ata</i>	
<b>ONLINE BOOSTING ALGORITHM FOR REGRESSION WITH ADDITIVE AND MULTIPLICATIVE UPDATES</b> .....	1230
<i>Ali H. Mirza</i>	
<b>ONLINE ADDITIVE UPDATES WITH FFT-IFFT OPERATOR ON THE GRU NEURAL NETWORKS</b> .....	1234
<i>Ali H. Mirza</i>	

<b>VARIANTS OF COMBINATIONS OF ADDITIVE AND MULTIPLICATIVE UPDATES FOR GRU NEURAL NETWORKS</b> .....	1238
<i>Ali H. Mirza</i>	
<b>NEUROFEEDBACK SYSTEM DESIGN BASED ON DISCRETE WAVELET TRANSFORM</b> .....	1242
<i>Sinasi Kutay Özen ; Mehmet Feyzi Aksahin</i>	
<b>DETECTION OF THE TURKISH SIGN LANGUAGE ALPHABET WITH STRAIN SENSOR BASED DATA GLOVE</b> .....	1246
<i>Fatih Kaya ; Ahmet Furkan Tuncer ; Sölen Kumbay Yıldız</i>	
<b>CLASSIFICATION OF RADIOLARIAN FOSSIL IMAGES WITH DEEP LEARNING METHODS</b> .....	1250
<i>Ali Seydi Keçeli ; Seda Uzunçimen Keçeli ; Aydın Kaya</i>	
<b>ADAPTIVE CLASSIFICATION OF RADAR PULSES WITH IMPROVED FUZZY ARTMAP</b> .....	1254
<i>Aybüke Erol ; Oğul Can ; A. Aydın Alatan</i>	
<b>AUTOMATIC CLASSIFICATION OF RESPIRATORY SOUNDS DURING SLEEP</b> .....	1258
<i>Erkin Kiliç ; Aykut Erdamar</i>	
<b>PERFORMANCE ANALYSIS OF POWER ADJUSTMENT METHODS IN MOLECULAR COMMUNICATION VIA DIFFUSION</b> .....	1262
<i>Meriç Turan ; Tuna Tuğcu ; H. Birkan Yılmaz</i>	
<b>SUPERVISED AUTHOR RECOGNITION WITH AGGREGATED WORD EMBEDDINGS</b> .....	1266
<i>Muhammed Selim Atar ; Ersin Esen ; Mehmet Ali Arabaci</i>	
<b>ANALYSIS OF FRONTAL PHASE SYNCHRONIZATION IN OCD PATIENTS</b> .....	1270
<i>Mehmet Akif Özçoban ; Oğuz Tan ; Aydın Akan</i>	
<b>ON OPTIMIZING FRACTIONAL LOWER ORDER COVARIANCE BASED SYNCHRONIZATION METHOD FOR RANDOM COMMUNICATION SYSTEMS</b> .....	1274
<i>Areeb Ahmed ; Ferit Acar Savacı</i>	
<b>PREDICTIVE CHURN ANALYSIS WITH MACHINE LEARNING METHODS</b> .....	1278
<i>Melike Günay ; Tolga Ensari</i>	
<b>NANOPARTICLE DETECTION FROM TEM IMAGES WITH DEEP LEARNING</b> .....	1282
<i>Gökhan Güven ; Ayşe Betül Oktay</i>	
<b>A LOW COST MEASUREMENT SETUP FOR MEASURING ACPR OF OFDM SIGNAL</b> .....	1286
<i>Gizem Tendürüs ; Alparslan Çağrı Yapıcı ; Emre Çağlar</i>	
<b>CLASSIFICATION OF EEG SIGNALS USING SPIKING NEURAL NETWORKS</b> .....	1290
<i>Aykut Tahtırvancı ; Akif Durdu ; Burak Yılmaz</i>	
<b>SENTIMENT CLASSIFICATION BASED ON DEEP LEARNING</b> .....	1294
<i>Mehmet Umut Salur ; İlhan Aydın</i>	
<b>FAST IMAGE SEARCH WITH DISTRUBUTED HASHING</b> .....	1298
<i>Osman Durmaz ; Hasan Sakir Bilge</i>	
<b>IMPLEMENTATION AND APPLICATION OF LOGISTIC MAP ON FIELD PROGRAMMABLE ANALOG ARRAY BOARD</b> .....	1302
<i>Alkim Gökçen ; Barkın Büyükçakır ; Savas Sahin</i>	
<b>A NOVEL SPARSE REPRESENTATION BASED SUPER RESOLUTION APPROACH USING MULTI-SCALE AND MULTI-DIRECTIONAL FEATURE DESCRIPTOR</b> .....	1306
<i>Selen Ayas ; Murat Ekinci</i>	
<b>DETECTION OF GREENHOUSE GASES USING INFRARED HYPERSPECTRAL IMAGERY</b> .....	1310
<i>Yusuf Gür ; Fatih Ömrüüzün ; Didem Özisik Baskurt ; Yasemin Yardımcı Çetin</i>	
<b>IMPROVING QUICK RESPONSE CODE DETECTION PERFORMANCE IN FARE COLLECTION TOOLS AND AN EMBEDDED SYSTEM IMPLEMENTATION</b> .....	1315
<i>Burak Sahan ; Aydoğan Savran</i>	
<b>ANALYSIS OF REDUCED EEG CHANNELS BASED ON EMOTIONAL STIMULUS</b> .....	1319
<i>Merve Doğruyol Başar ; Adil Deniz Duru ; Seray Senyer Özgör ; Cansin Özgör ; Aydın Akan</i>	
<b>TURKISH SIGN LANGUAGE ALPHABET TRANSLATOR</b> .....	1323
<i>Metehan Yalçın ; Sema Ilgaz ; Gündüz Özkul ; Sölen Kumbay Yıldız</i>	
<b>ROBUST OBJECT TRACKING BY VARIABLE RATE KERNEL PARTICLE FILTER</b> .....	1327
<i>Oğuzhan Gültekin ; Bilge Günsel</i>	
<b>OFF-GRID SPARSE BLIND SENSOR CALIBRATION</b> .....	1331
<i>Sedat Çamlıca ; Imam Samil Yetik ; Orhan Arıkan</i>	
<b>PARALLELIZATION AND PERFORMANCE ANALYSIS OF REVERSIBLE CIRCUIT SYNTHESIS</b> .....	1335
<i>Ömercan Susam ; Suayb S. Arslan</i>	
<b>PERFORMANCE ANALYSIS OF THE TOA COOPERATIVE LOCALIZATION ESTIMATION ALGORITHM FOR 5G CELLULAR NETWORKS</b> .....	1339
<i>Mustafa Namdar ; Arif Başgumus ; Abdulkadir Güney</i>	



<b>MULTI-HOP SPACE SHIFT KEYING WITH PARTIAL RELAY SELECTION</b> .....	1343
<i>Ferhat Yarkin ; Ibrahim Altunbas ; Ertugrul Basar</i>	
<b>SPACE-TIME BLOCK CODED SPATIAL MODULATION AIDED MMWAVE MIMO WITH HYBRID PRECODING</b> .....	1347
<i>Taissir Y. Elganimi ; Ali A. Elghariani</i>	
<b>AUTO-ENCODER BASED COGNITIVE ANALYSIS OF QUESTIONNARY</b> .....	1353
<i>Simge Akay ; Hande Korkmaz ; Nafiz Arica</i>	
<b>A LANE DETECTION ALGORITHM BASED ON RELIABLE LANE MARKINGS</b> .....	1357
<i>Yasin Yeniaydin ; Klaus Werner Schmidt</i>	
<b>A FAST START-UP MODIFIED LMS ALGORITHM</b> .....	1361
<i>Elif Nur Ayyaz ; Meryem Maras ; Ali Özen</i>	
<b>A NEW ALGORITHM FOR DESIGNING SEQUENCES USING STOPBAND AND CORRELATION CONSTRAINTS</b> .....	1365
<i>Osman Tayfun Biskin ; Olcay Akay</i>	
<b>DEVELOPMENT OF DECISION SUPPORT SYSTEM FOR AUTOMATIC SLEEP STAGE SCORING</b> .....	1369
<i>Gizem Gülhan ; Irem Balçık ; Tuğçe Kantar ; Aykut Erdamar</i>	
<b>MODEL BASED NODE DESIGN METHODOLOGY FOR SECURE IOT APPLICATIONS</b> .....	1373
<i>Özen Özkaya ; Berna Örs</i>	
<b>A NEW INITIALIZATION METHOD FOR ARTIFICIAL NEURAL NETWORKS: LAPLACIAN</b> .....	1377
<i>Burak Çatalbas ; Bahadır Çatalbas ; Ömer Morgül</i>	
<b>FORCE RESISTIVE SENSOR NETWORK CALIBRATION METHOD VIA REGRESSION ANALYSIS</b> .....	1381
<i>Ilke Kurt ; Revna Acar Vural</i>	
<b>DATA FRESHNESS MODEL FOR P/S BASED SENSOR MONITORING SYSTEM</b> .....	1385
<i>Kemal Çagri Serdaroglu ; Sebnem Baydere</i>	
<b>CUDA IMPLEMENTATION OF VIBE BACKGROUND SUBTRACTION ALGORITHM ON JETSON TX1/TX2 MODULES</b> .....	1389
<i>Mehmet Fatih Karagöz ; Metin Aktas ; Toygar Akgün</i>	
<b>COMPARISON OF MACHINE LEARNING METHODS FOR SOFTWARE PROJECT EFFORT ESTIMATION</b> .....	1393
<i>Vehbi Yurdakurban ; Nadia Erdogan</i>	
<b>TRANSFER AND MULTITASK LEARNING METHOD FOR BURIED WIRE DETECTION VIA GPR</b> .....	1397
<i>Enver Aydın ; Seniha Esen Yüksel</i>	
<b>REDUCED COMPLEXITY OPTIMAL HARD DECISION FUSION UNDER NEYMAN-PEARSON CRITERION</b> .....	1401
<i>Fayazur Rahaman Mohammad Nikhil D ; Zafar Ali Khan Mohammed</i>	
<b>CLASSIFICATION OF HUMAN POSES AND ORIENTATIONS WITH DEEP LEARNING</b> .....	1405
<i>Anil Atyar ; Nazli Ikizler Cinbis</i>	
<b>A VISUALIZATION PLATFORM FOR DISK FAILURE ANALYSIS</b> .....	1409
<i>Ibrahim Onuralp Yigit ; Suayb S. Arslan ; Engin Zeydan</i>	
<b>TURKISH NAMED ENTITY RECOGNITION WITH DEEP LEARNING</b> .....	1413
<i>Asim Günes ; A. Cüneyd Tantug</i>	
<b>EFFECT OF DIFFERENT SPARSITY PRIORS ON COMPRESSIVE PHOTON-SIEVE SPECTRAL IMAGING</b> .....	1417
<i>Oguzhan Fatih Kar ; Figen S. Oktem ; Ulas Kamaci ; Fatih Çagatay Akyön</i>	
<b>GRADIENT CONTROLLED IMPROVED PROPORTIONATE AFFINE PROJECTION SIGN ALGORITHM</b> .....	1421
<i>Murat Babek Salman ; Tolga Çiloglu</i>	
<b>CLASSIFICATION OF 1D SIGNALS USING DEEP NEURAL NETWORKS</b> .....	1425
<i>Emre Ardıç ; Yakup Genç</i>	
<b>EFFECT OF EARLY AND LATE FUSION ON HEART SOUND CLASSIFICATION</b> .....	1429
<i>Ersan Öztavli ; Erchan Aptoula</i>	
<b>CORRECTING WRITING ERRORS IN TURKISH WITH A CHARACTER-LEVEL NEURAL LANGUAGE MODEL</b> .....	1433
<i>Burak Benligiray</i>	
<b>IDENTIFYING TEXTUAL PERSONAL INFORMATION USING BIDIRECTIONAL LSTM NETWORKS</b> .....	1437
<i>Memduh Çagri Demir ; Seyda Ertekin</i>	

<b>ZERO-TAIL DISCRETE WAVELET TRANSFORM SPREAD OFDM SYSTEM FOR 5G AND BEYOND</b> .....	1441
<i>Büsra Ceniklioglu ; Ali Özen ; Ibrahim Develi</i>	
<b>ON THE USE OF GENETIC ALGORITHMS FOR SYNTHESIS OF SIGNAL TEMPORAL LOGIC FORMULAS</b> .....	1445
<i>Sertaç Kagan Aydın ; Ebru Aydın Gol</i>	
<b>BIT ERROR RATE ANALYSIS FOR COLOR SHIFT KEYING MODULATION</b> .....	1449
<i>Emin Tuğcu ; Cenk Albayrak ; Ayhan Yazgan ; Cemaleddin Simsek ; Kadir Turk</i>	
<b>TASK-BASED CLUSTERING ON SEARCH QUERIES</b> .....	1453
<i>Almila Selcen Akgün ; Yusuf Yaslan</i>	
<b>WATERMARKING MEDICAL IMAGES WITH IDWT-FWHT</b> .....	1457
<i>Arda Üstübioglu ; Güzin Ulutas ; Beste Üstübioglu</i>	
<b>LOW COMPLEXITY RECEIVERS FOR CONTINUOUS PHASE MODULATION</b> .....	1461
<i>Cansu Sen ; Emre Aktas</i>	
<b>AN OVERVIEW OF BLOCKCHAIN TECHNOLOGIES: PRINCIPLES, OPPORTUNITIES AND CHALLENGES</b> .....	1465
<i>Gültekin Berahan Mermer ; Engin Zeydan ; Suayb Sb Arslan</i>	
<b>MULTI-STATE VIDEO TRANSMISSION WITH NETWORK CODING</b> .....	1469
<i>Öznur Sengel ; Sila Ekmekci Flierl</i>	
<b>ESTIMATION OF INTER-PULSE PHASE/FREQUENCY STEPPING PARAMETERS IN ELECTRONIC INTELLIGENCE SYSTEMS</b> .....	1473
<i>Yasar Kemal Alp ; Gökhan Gök</i>	
<b>METHODS FOR MINIMIZING ERROR IN LOCATION ESTIMATION USING RECEIVED SIGNAL STRENGTH</b> .....	1477
<i>Elif Aydogdu Dogru</i>	
<b>EXPERIMENTAL ANALYSIS OF ULTRA WIDEBAND IN VIVO RADIO CHANNEL</b> .....	1481
<i>Muhammad Ilyas ; Oguz Bayat ; Qammer H. Abbasi</i>	
<b>HARMONIC ANALYSIS IN POWER SYSTEMS USING CONVOLUTIONAL NEURAL NETWORKS</b> .....	1484
<i>Nagihan Severoglu ; Özgül Salor</i>	
<b>EFFECTS OF MEASUREMENT NOISE IN MARS-BASED INVERSE ECG SOLUTION APPROACH</b> .....	1488
<i>Önder Nazim Onak ; Yesim Serinagaoglu Dogrusöz ; Gerhard Wilhelm Weber</i>	
<b>FPGA IMPLEMENTATION OF TARGET DETECTION ALGORITHM AT REAL TIME VIDEO SIGNAL PROCESSING USING HARRIS CORNER DETECTOR FILTER</b> .....	1492
<i>Emrah Onat</i>	
<b>AN ANALYSIS OF DOPPLER BEAM SHARPENING TECHNIQUE USED IN FIGHTER AIRCRAFT</b> .....	1496
<i>Emrah Onat ; Yakup Özkazanç</i>	
<b>FOOD INTAKE DETECTION USING AUTOENCODER-BASED DEEP NEURAL NETWORKS</b> .....	1500
<i>M. A. Tuğtekin Turan ; Engin Erzin</i>	
<b>USAGE OF DEVICE-TO-DEVICE COMMUNICATION WITH MULTIPLE ANTENNAS AT THE CELL EDGES</b> .....	1504
<i>Kerem Erkan ; Ali Özgür Yılmaz</i>	
<b>PERFORMANCE COMPARISON OF CRYPTOGRAPHIC ALGORITHMS IN INTERNET OF THINGS</b> .....	1508
<i>Berat Yılmaz ; Suat Özdemir</i>	
<b>SIGNAL AND NOISE SUBSPACE DECOMPOSITION FOR A LINEAR ANTENNA ARRAY USING SVD</b> .....	1512
<i>Nilay Aytas ; Erkan Afacan ; Nihat Inanç</i>	
<b>PIXEL-BASED CLASSIFICATION OF SAR IMAGES USING FEATURES</b> .....	1516
<i>Ayşe Tombak ; Erchan Aptoula ; Koray Kayabol</i>	
<b>A CASE STUDY ON AUDITORY BRAIN ACTIVATIONS RELATIVE TO MUSICAL EXPERIENCE BY MEANS OF EEG COMPLEXITY LEVELS</b> .....	1520
<i>Serap Aydın ; Cagdas Güdücü ; Firat Kutluk ; Adile Öñiz Özgören ; Murat Özgören</i>	
<b>RESPIRATORY SCORING USING PHOTOPLETHYSMOGRAPHY SIGNAL AND NEAREST NEIGHBOR ALGORITHM</b> .....	1524
<i>Ferda Bozkurt ; Muhammed Kürsüd Uçar ; Recep Bozkurt Mehmet ; Serhat Tuna ; Cahit Bilgin</i>	
<b>CONTINUOUS VALENCE PREDICTION USING RECURRENT NEURAL NETWORKS WITH FACIAL EXPRESSIONS AND EEG SIGNALS</b> .....	1527
<i>Doganca Sen ; Mustafa Sert</i>	

<b>FINDING LOCATION OF A PHOTOGRAPH WITH DEEP LEARNING</b> .....	1531
<i>Yunus Emre Özköse ; Tarik Ayberk Yilikoglu ; Levent Karacan ; Aykut Erdem</i>	
<b>PROHIBITED ZONE INTRUSION DETECTION</b> .....	1535
<i>Sükrü Biçakci ; Ibrahim Gökhan Aksüren ; Ali Köksal Hocaoglu</i>	
<b>DETECTION OF LESIONS ON THE RETINA IMAGE</b> .....	1539
<i>Omer Kasim</i>	
<b>IMPROVING THE COST-VOLUME BASED LOCAL STEREO MATCHING ALGORITHM</b> .....	1543
<i>Alper Emlek ; Murat Peker ; Mehmet Kürsat Yalçın</i>	
<b>BEYOND POSTERIORGRAM: BOTTLENECK FEATURES FOR KEYWORD SEARCH</b> .....	1547
<i>Bolaji Yusuf ; Batuhan Gundogdu ; Murat Saraclar</i>	
<b>ENHANCEMENT OF FINGER VEIN IMAGES USING GABOR FILTER</b> .....	1551
<i>Mustafa Kocakulak ; Nurettin Acir</i>	
<b>DETECTION OF PERSONAL PROTECTIVE EQUIPMENT</b> .....	1555
<i>Öner Hatipoglu ; Ali Köksal Hocaoglu</i>	
<b>RELAXED FORMATION RULES FOR G-QUADRUPLIX PREDICTION</b> .....	1559
<i>Osman Doluca</i>	
<b>EXPERIMENTAL CONSIDERATIONS IN THE DEVELOPMENT OF REGENERATED FIBER BRAGG GRATING SENSORS</b> .....	1563
<i>Kivircim Yüksel Aldogan ; Alvaro Gonzalez Vila ; Damien Kinet ; Christophe Caucheteur</i>	
<b>HAMMERSTEIN MODEL PERFORMANCE OF THREE AXES GIMBAL SYSTEM ON UNMANNED AERIAL VEHICLE (UAV) FOR ROUTE TRACKING</b> .....	1567
<i>Aytaç Altan ; Rifat Hacıoglu</i>	
<b>STREAM TEXT DATA ANALYSIS ON TWITTER USING APACHE SPARK STREAMING</b> .....	1571
<i>Özlem Hakdaglı ; Caner Özcan ; Iskender Ülgen Ogul</i>	
<b>EXPRESSION RECOGNITION WITH APPEARANCE-BASED FEATURES OF FACIAL LANDMARKS</b> .....	1575
<i>Nuri Özbey ; Cihan Topal</i>	
<b>QUALITY SORTING OF GREEN PEPPERS BASED ON FLEXURE</b> .....	1579
<i>Can Coksoyler ; Helin Dutagaci</i>	
<b>EVALUATION OF RESPONSE TIME DISTRIBUTIONS FOR CONTROLLER AREA NETWORK MESSAGES</b> .....	1583
<i>Ahmet Batur ; Ece Güran Schmidt ; Klaus Werner Schmidt</i>	
<b>QUERY-BY-SIGN SYSTEM FOR TURKISH SIGN LANGUAGE BROADCASTS</b> .....	1587
<i>Jülide Gülen Alaydin ; Murat Saraclar</i>	
<b>ESTIMATION OF MUSICAL FEATURES USING EEG SIGNALS</b> .....	1591
<i>Çagatay Demirel ; Ugur Can Akkaya ; Murat Yalçın ; Gökhan Ince</i>	
<b>AN IMPLEMENTATION OF SOFTWARE DEFINED NETWORK WITH RASPBERRY PI</b> .....	1595
<i>Bilal Babayigit ; Sinan Karakaya ; Banu Ulu</i>	
<b>COMPARISON OF MACHINE LEARNING CLASSIFIERS FOR PROTEIN SECONDARY STRUCTURE PREDICTION</b> .....	1599
<i>Zafer Aydın ; Oguz Kaynar ; Yasin Görmez ; Yunus Emre Isik</i>	
<b>ACCLOUD (ACCELERATED CLOUD): A NOVEL FPGA-ACCELERATED CLOUD ARCHITECTURE</b> .....	1603
<i>Alper Yazar ; Ahmet Erol ; Ece Güran Schmidt</i>	
<b>AN INTELLIGENT DINING SCENE EXPERIENCE</b> .....	1607
<i>Alper Kanak ; Ahmet Özlü ; Süleyman Olcay Polat ; Övgü Öztürk Ergün</i>	
<b>DESIGN OF A MULTIPLE FIBER BRAGG SENSOR DEFINE OF TEMPERATURE PARAMETERS OF THE FIBER BRAGG GRATINGS</b> .....	1610
<i>Murat Yücel ; Nail Ferhat Öztürk ; Murat Yücel ; H. Haldun Göktas</i>	
<b>IMPLEMENTATION AND DESIGN OF FIBER BRAGG GRATING BASED RAIL STRAIN MEASUREMENT SYSTEM</b> .....	1614
<i>Murat Yücel ; Nail Ferhat Öztürk ; Murat Yücel ; H. Haldun Göktas</i>	
<b>COVERAGE PREDICTION FOR DOUBLE DIFFRACTION SCENARIOS</b> .....	1618
<i>Eray Arik ; Mehmet Baris Tabakcioglu</i>	
<b>D-SHAPED PHOTONIC CRYSTAL FIBER BASED SURFACE PLASMON RESONANCE SENSOR</b> .....	1622
<i>Ahmet Yasli ; Hüseyin Ademgil ; Shygyri Haxha</i>	
<b>TONGUE CONTOUR EXTRACTION FROM ULTRASOUND IMAGES USING IMAGE PARTS</b> .....	1626
<i>Enes Aslan ; Naci Dumlu ; Yusuf Sinan Akgül</i>	
<b>NETWORK PACKET LOSS SENSITIVITY ANALYSIS FOR SYMPES CODEC</b> .....	1630
<i>Erhan Ceran ; Erkin Çilden ; Emre Gültekin ; M. Haluk Canberi</i>	

<b>AUTOMATIC ASSESSMENT OF VIOLIN PERFORMANCE USING DYNAMIC TIME WARPING CLASSIFICATION</b> .....	1634
<i>Sergio Giraldo ; Ariadna Ortega ; Alfonso Perez ; Rafael Ramirez ; George Waddell ; Aaron Williamon</i>	
<b>EFFECTS OF CALCIUM CHANNEL NOISE ON WEAK SIGNAL DETECTION IN NEURON-ASTROCYTE INTERACTIONS</b> .....	1637
<i>Yasemin Erkan ; Zehra Saraç ; Ergin Yilmaz</i>	
<b>PERFORMANCE ANALYSIS OF SIGNAL PROCESSING ALGORITHMS USING MULTI-CORE DSP PLATFORM</b> .....	1641
<i>Enrah Sapla ; Ömer Faruk Gemici ; Ibrahim Hökelek ; Tübitak Bölgen</i>	
<b>INCREASING LESION SPECIFICITY WITH FUSION OF MANUALLY AND AUTOMATICALLY SEGMENTED LIVER MR IMAGES</b> .....	1645
<i>Saim Ervural ; Murat Ceylan</i>	
<b>TIME SERIES FORECASTING USING EMPIRICAL MODE DECOMPOSITION AND HYBRID METHOD</b> .....	1649
<i>Ümit Çavus Büyükgahin ; Seyda Ertekin</i>	
<b>PREDICTING SOCCER EVENTS FROM OPTICAL TRACKING DATA</b> .....	1653
<i>Esref Özdemir ; Hande Alemdar</i>	
<b>INVESTIGATION OF CLOUD COMPUTING SYSTEMS IN TERMS OF TURKEY AND INTERNATIONAL LEGISLATION</b> .....	1657
<i>Sengul Dogan ; Mehmet Fatih Yasar ; Erhan Akbal ; Turker Tuncer</i>	
<b>MASSIVE MIMO IN LTE SYSTEMS: ENERGY AND SPECTRAL EFFICIENCY</b> .....	1663
<i>Yazarlar Gizlenmistir</i>	
<b>ERROR ANALYSIS OF SINGLE CHANNEL SWITCHED DF RECEIVERS FOR NON-ZERO-BANDWIDTH SIGNALS</b> .....	1667
<i>Hüseyin Yildiz</i>	
<b>ASSOCIATION OF A 2D RADAR MEASUREMENT TO A 2D TRACK GENERATED BY ANOTHER RADAR</b> .....	1671
<i>Duygu Acar ; Eda Karala ; Mübeccel Demirekler</i>	
<b>PERFORMANCE ANALYSIS FOR VARIOUS CLUTTER ELIMINATION METHODS IN SHIP TARGET CLASSIFICATION</b> .....	1675
<i>Mehmet Zahid Kartal ; Osman Karabayir ; Ahmet Serbes</i>	
<b>OBJECT LOCALIZATION WITH REINFORCEMENT LEARNING</b> .....	1679
<i>Eren Halici ; A. Aydin Alatan</i>	
<b>A CONVOLUTIONAL NEURAL NETWORKS ORIENTED APPROACH FOR VOXEL-BASED 3D OBJECT CLASSIFICATION</b> .....	1683
<i>Ridvan Sirma ; Berkan Dinar ; Yusuf Hüseyin Sahin ; Gözde Ünal</i>	
<b>HUMAN ACTIVITY RECOGNITION WITH MOBILE PHONE SENSORS: IMPACT OF SENSORS AND WINDOW SIZE</b> .....	1687
<i>Murat Cihan Sorkun ; Ahmet Emre Danisman ; Özlem Durmaz Incel</i>	
<b>ONLINE OPTIMIZATION OF WIRELESS SENSORS SELECTION OVER AN UNKNOWN STOCHASTIC ENVIRONMENT</b> .....	1691
<i>Muhammad Anjum Qureshi ; Wardah Sarmad ; Hira Noor ; Ali Hassan Mirza</i>	
<b>INVESTIGATING THE AFFECT OF TEXTURE INFORMATION ON THE CLASSIFICATION OF HYPERSPECTRAL IMAGES</b> .....	1695
<i>Ekrem Saralioglu ; Esra Tunç Görmüş</i>	
<b>AUTOMATIC DETECTION OF SLEEP SPINDLES WITH QUADRATIC DISCRIMINANT ANALYSIS</b> .....	1699
<i>Sila Türkü Kökerer ; Elif Öykü Çelik ; Tuğçe Kantar ; Aykut Erdamar</i>	
<b>COMPARATIVE PERFORMANCE EVALUATION OF EFFICIENT SPECTRUM HANDOFF METHODS IN WIRELESS COGNITIVE NETWORKS</b> .....	1703
<i>Muhammed Enes Bayrakdar ; Ali Çalhan</i>	
<b>CAMERA BASED PEDESTRIAN DETECTION FOR RAILWAY DRIVER SUPPORT SYSTEMS</b> .....	1707
<i>Tuğçe Toprak ; M. Alper Selver ; Burak Belenoglu ; Sinan Dogan ; Burak Aydın</i>	
<b>END-TO-END LEARNING MODEL DESIGN FOR STEERING AUTONOMOUS VEHICLE</b> .....	1711
<i>Münir Karsli ; Yusuf Satilmis ; Muhammed Sara ; Furkan Tufan ; Süleyman Eken ; Ahmet Sayar</i>	
<b>ANDROID BASED PLC DATA MONITORING INTERFACE WITH INDUSTRIAL DATA COMMUNICATION PORT</b> .....	1715
<i>Arya Kanmaz ; Halit Örenbas ; Savas Sahin</i>	
<b>FINGERPRINT RECOGNITION BY DEEP NEURAL NETWORKS AND FINGERCODES</b> .....	1719
<i>Alper Bastürk ; Nurcan Sarikaya Bastürk ; Orxan Qurbanov</i>	

<b>ON THE USE AND THE PERFORMANCE OF ADAPTIVE FILTERS FOR FIBER OPTIC DISTRIBUTED ACOUSTIC SENSORS</b> .....	1723
<i>Ibrahim Ölçer ; Ahmet Öncü</i>	
<b>A MINIMAL WEIGHT AND ROUTING COST CONNECTED DOMINATING SET ALGORITHM FOR WIRELESS SENSOR NETWORKS</b> .....	1727
<i>Mustafa Tosun ; Elif Haytaoglu ; Omer Gulec</i>	
<b>LOW SYMMETRIC PHOTONIC CRYSTALS FOR BIOSENSOR APPLICATIONS</b> .....	1731
<i>Nur Erim ; Muhammed Necip Erim ; Hamza Kurt</i>	
<b>OPTIMIZATION OF PHYSICAL PARAMETERS OF AN UNDERACTUATED QUADRUPEDAL ROBOT</b> .....	1735
<i>Osman Kaan Karagöz ; Mustafa Mert Ankarali</i>	
<b>DETERMINATION OF RICE PLANT MORPHOLOGY BY STOCHASTIC OPTIMIZATION USING X-BAND POLSAR DATA</b> .....	1739
<i>Onur Yüzügüllü ; Esra Erten ; M. Zehra Sahin ; Irena Hajnsek</i>	
<b>TURKISH VERBAL MULTIWORD EXPRESSIONS CORPUS</b> .....	1743
<i>Gözde Berk ; Berna Erden ; Tunga Güngör</i>	
<b>REPLAY SPOOFING ATTACK DETECTION USING DEEP NEURAL NETWORKS</b> .....	1747
<i>Bekir Bakar ; Cemal Hanilçi</i>	
<b>DETECTION OF ECG ARRHYTHMIA USING ZHAO-ATLAS MARK TIME-FREQUENCY DISTRIBUTION</b> .....	1751
<i>Fulya Akdeniz ; Temel Kayıkçıoğlu</i>	
<b>MULTI-LEVEL IMAGE THRESHOLDING WITH GLOBAL-BEST DISTANCE ARTIFICIAL BEE COLONY ALGORITHM</b> .....	1755
<i>Adem Tural ; Gürcan Yavuz ; Dogan Aydın</i>	
<b>GENDER RECOGNITION WITH UNIFORM LOCAL BINARY PATTERNS</b> .....	1759
<i>Llukman Cerkezi ; Cihan Topal</i>	
<b>EFFECT OF CHANNEL FADING ON REACHING CONSENSUS IN MULTI-AGENT SYSTEMS</b> .....	1763
<i>Kimon Cokona ; Semiha Tedik Basaran ; Emre Durmaz ; Ezgi Oral ; Gunes Karabulut Kurt ; Gerd Ascheid ; Guido Dartmann</i>	
<b>AN IMAGE PROCESSING SYSTEM FOR DETECTING PRODUCTION ERRORS ON CIRCUIT BOARDS AND ENABLING ERROR TRACKING AND REPORTING BASED ON 2-D BARCODES</b> .....	1767
<i>Ömer Faruk Sahar ; Fatih Durmaz ; Volkan Azat ; Emre Güngör ; Kemal Dedeoğlu ; Alper Sisman ; Murat Dogruel</i>	
<b>REAL TIME FOUR CHANNEL PHASE COMPARISON DIRECTION FINDING METHOD</b> .....	1771
<i>Annan Orduyılmaz ; Gökhan Kara ; Abdullah Emin Gürel ; Mahmut Serin ; Alper Yıldırım ; Gökhan Soysal</i>	
<b>VIBRATIONAL RESONANCE IN A HODGKIN-HUXLEY NEURON UNDER ELECTROMAGNETIC INDUCTION</b> .....	1775
<i>Veli Baysal ; Ergin Yilmaz</i>	
<b>REDUCED-RANK JOINT ESTIMATION OF DOA WITH MUTUAL COUPLING</b> .....	1779
<i>Nann Win Moe Thet ; Mehmet Kemal Ozdemir ; Amit Kachroo</i>	
<b>VOLUMETRIC EXTRACTION OF PULMONARY BLOOD VESSELS FROM COMPUTERIZED TOMOGRAPHY SCANS</b> .....	1783
<i>Kaya Mustafa Aribaç ; Gökhan Bora Esmer ; Alper Sismanu ; Tunç Laçin ; Neslihan Sarigül ; Beyza Ayvaciikli</i>	
<b>EFFECTS OF AUTAPSE ON WEAK SIGNAL DETECTION IN FFL NETWORK MOTIFS</b> .....	1787
<i>Veli Baysal ; Ergin Yilmaz</i>	
<b>ANOMALY DETECTION ON WIND TURBINES</b> .....	1791
<i>Onur Poyraz ; M. Burak Kurutmaz ; A. Taylan Cemgil ; Sinan Selamoğlu</i>	
<b>GENERALIZED CIRCLE AGENT FOR GEOMETRY FRIENDS USING DEEP REINFORCEMENT LEARNING</b> .....	1795
<i>Azmi Can Özgen ; Mandana Fasounaki ; Hazim Kemal Ekenel</i>	
<b>TURKISH BROADCAST NEWS TRANSCRIPTION REVISITED</b> .....	1799
<i>Ebru Arisoy ; Murat Saraglar</i>	
<b>ADAPTIVE FREQUENCY-DOMAIN EQUALIZER STRUCTURE FOR SC-FDE SYSTEMS IN FAST-FADING CHANNELS</b> .....	1803
<i>Nuri Hakan Ekmekci</i>	
<b>DETERMINATION OF OPTIMUM BASE STATION LOCATION BY USING UTD MODEL</b> .....	1807
<i>Alp Eren Aydın ; Mehmet Baris Tabakcioglu</i>	
<b>TEXT DETECTION IN NATURAL AND COMPUTER-GENERATED IMAGES</b> .....	1811
<i>Azmi Can Özgen ; Mandana Fasounaki ; Hazim Kemal Ekenel</i>	
<b>COMPARATIVE ANALYSIS OF ENSEMBLE LEARNING METHODS FOR SIGNAL CLASSIFICATION</b> .....	1815
<i>Pelin Yıldırım ; Kökten Ulas Birant ; Vladimir Radevski ; Alp Kut ; Derya Birant</i>	

<b>A COPY-MOVE FORGERY DETECTION APPROACH BASED ON LOCAL INTENSITY ORDER PATTERN AND PATCHMATCH .....</b>	1819
<i>Gül Muzaffer ; Eda Sena Erdöl ; Güzin Ulutas</i>	
<b>DIAGNOSIS OF LUNG CANCER WITH E-NOSE .....</b>	1823
<i>Ümit Özsandıkcıoğlu ; Ayten Atasoy ; Sule Yapıcı</i>	
<b>OPTIMIZATION BASED DESIGN WITH SUBGRADIENT METHOD IN RECOMMENDER SYSTEM.....</b>	1827
<i>Zühal Kurt ; Kemal Özkan</i>	
<b>TURKISH TEXT-DEPENDENT SPEAKER VERIFICATION USING I-VECTOR/PLDA APPROACH .....</b>	1831
<i>Cemal Hanılçı ; Havva Çeliktas</i>	
<b>TURKISH LIRA BANKNOTES CLASSIFICATION USING DEEP CONVOLUTIONAL NEURAL NETWORKS.....</b>	1835
<i>Gülçin Baykal ; Ugur Demir ; Ira Shyti ; Gözde Ünal</i>	
<b>PREDICTION OF STOCK RETURNS IN ISTANBUL STOCK EXCHANGE USING MACHINE LEARNING METHODS .....</b>	1839
<i>Sefa Tekin ; Ethem Çanakoglu</i>	
<b>SINGLE CARRIER FREQUENCY DOMAIN EQUALIZER WITH UNIQUE WORD PREFIX.....</b>	1843
<i>Ugur Elmagöz ; Yasin Kus ; Mükremin Kavlak ; Ali Özen</i>	
<b>DETECTION OF COPY MOVE FORGERY TECHNIQUE BASED ON SIFT AND SURF .....</b>	1847
<i>Yıldız Aydın ; Gül Muzaffer ; Güzin Ulutaç</i>	
<b>FEATURE SELECTION FOR OPTIMAL WEATHER DETECTION WITH METEOROLOGICAL RADAR DATA .....</b>	1851
<i>Eren Hamurcu ; Imam Samil Yetik</i>	
<b>APPROXIMATE IMPLEMENTATION OF FIR FILTERS ON FPGA.....</b>	1855
<i>Y. Firat Kula ; Tuba Ayhan ; Mustafa Altun</i>	
<b>A PASSIVE BRAIN-COMPUTER INTERFACE FOR MONITORING MENTAL ATTENTION STATE.....</b>	1859
<i>Murat Kaya ; Çigdem Acı ; Yuriy Mishchenko</i>	
<b>INDOOR LOCALIZATION AND TRACKING BY MULTI SENSOR FUSION IN KALMAN FILTER .....</b>	1863
<i>Sertaç Bugra Kaya ; Ali Ziya Alkar</i>	
<b>A DEEP LEARNING AND RSSI BASED APPROACH FOR INDOOR POSITIONING .....</b>	1867
<i>Kamuran Dogus Yüksel ; Behçet Ugur Töreşin</i>	
<b>INDOOR DISTANCE ESTIMATION BY USING TIME OF ARRIVAL .....</b>	1871
<i>Erdenay Aktas ; Özgür Tamer</i>	
<b>STOCK MARKET PREDICTION WITH DEEP LEARNING USING FINANCIAL NEWS.....</b>	1875
<i>Hakan Gündüz ; Yusuf Yaslan ; Zehra Çataltepe</i>	
<b>AN ONTOLOGY BASED SEMANTIC REPRESENTATION FOR TURKISH CUISINE.....</b>	1879
<i>Övgü Öztürk Ergün ; Bengü Öztürk</i>	
<b>A MOTION SENSING BASED ASSISTIVE SYSTEM DESIGN FOR ICE SKATING LEARNERS.....</b>	1883
<i>Övünç Öztürk ; Murat Mecit Kahramanli</i>	
<b>CLASSIFICATION OF TUMOR REGIONS IN HISTOPATHOLOGICAL IMAGES USING CONVOLUTIONAL NEURAL NETWORKS .....</b>	1887
<i>Koray Gündüz ; Abdülkadir Albayrak ; Gökhan Bilgin ; M. Elif Karşligil</i>	
<b>IONOGRAM SCALING USING HIDDEN MARKOV MODELS .....</b>	1891
<i>Gokhan Gok ; Yasar Kemal Alp ; Orhan Arıkan ; Feza Arıkan</i>	
<b>OPTIMAL DEPLOYMENT OF UAV'S FOR COMMUNICATION.....</b>	1895
<i>Ayça Hazel Kulaç ; Alper Akarsu ; Tolga Gırici</i>	
<b>OBJECT TRACKING BY DEEP OBJECT DETECTORS AND PARTICLE FILTERING .....</b>	1899
<i>Caner Özer ; Filiz Gürkan ; Bilge Günsel</i>	
<b>ROBUSTNESS OF SIFT FEATURE DESCRIPTORS TO IMAGING PARAMETERS IN LASER SCANNING MICROSCOPY .....</b>	1903
<i>Devrim Ünay ; Stefan G. Stanciu</i>	
<b>OPC SERVER BASED AND REAL TIME MOTOR SPEED CONTROL WITH PLC COMMUNICATION SYSTEM .....</b>	1907
<i>Emre Vardar ; Abdülkadir Hüsrev Giraz ; Halit Örenbas ; Savas Sahin</i>	
<b>CONTACTLESS RESPIRATION RATE ESTIMATION WITH PHASE DIFFERENCE .....</b>	1911
<i>Can Uysal ; Tansu Filik</i>	
<b>SEGMENTATION OF OBJECTS IN RGB-D SCENES BY CLUSTERING SURFACES .....</b>	1915
<i>Hamdi Yalin Yalıç ; Ahmet Burak Can</i>	

<b>FUSION OF EVENT DETECTION SYSTEMS: AN APPLICATION TO KEYWORD SEARCH</b> .....	1919
<i>Batuhan Gundogdu ; Bolaji Yusuf ; Murat Saraclar</i>	
<b>TRANSFER LEARNING FOR AUTOMATIC SPEECH RECOGNITION SYSTEMS</b> .....	1923
<i>Behnam Asefisaray ; Ali Haznedaroglu ; Mustafa Erden ; Levent M. Arslan</i>	
<b>COLOR BASED VEHICLE CLASSIFICATION USING ROAD SURVEILLANCE CAMERA IMAGES</b> .....	1927
<i>Bensu Alkan ; Alperen Elihos ; Burak Balci ; Yusuf Oguzhan Artan</i>	
<b>ACTIVITY RECOGNITION WITH WRIST FOUND IN PHOTON DEVELOPMENT BOARD AND ACCELEROMETER</b> .....	1931
<i>Tuba Kaytaran ; Levent Bayindir</i>	
<b>SPARK DETECTION WITH THERMAL CAMERA</b> .....	1935
<i>Omer Özdil ; Berkan Demirel ; Yunus Emre Esin ; Safak Öztürk</i>	
<b>EMOTION RECOGNITION IN VALENCE-AROUSAL SCALE BY USING PHYSIOLOGICAL SIGNALS</b> .....	1939
<i>Neziha Akalin ; Hatice Köse</i>	
<b>COMBINING MACHINE TRANSLATION AND TEXT SIMILARITY METRICS TO IDENTIFY PARAPHRASES IN TURKISH</b> .....	1943
<i>Katira Soleymanzadeh ; Bahar Karaoglan ; Senem Kumova Metin ; Tarik Kisla</i>	
<b>COMPRESSIVE DIGITAL RECEIVER: FIRST HARDWARE IMPLEMENTATION RESULTS</b> .....	1947
<i>Ali Bugra Korucu ; Onur Çakar ; Yasar Kemal Alp ; Gökhan Gök ; Orhan Arikian</i>	
<b>TENDENCY MONITORING AND NEAREST-TIME ESTIMATION OF RAPID CHANGING DATA: CRYPTOCURRENCY EXAMPLE</b> .....	1951
<i>Ufuk Akoguz ; Taner Akkan</i>	
<b>EVALUATION OF THE ROBUSTNESS OF DEEP FEATURES ON THE CHANGE DETECTION PROBLEM</b> .....	1954
<i>Özge Öztimur Karadag ; Özlem Erdas</i>	
<b>NOVEL TECHNIQUES FOR MODEL-FREE AND FAST COMPUTATION OF MUTUAL INFORMATION</b> .....	1958
<i>Serhat Çağdaç ; Bilge Karaçalı</i>	
<b>IMPACT OF AGE, SEX AND HAIR TYPE ON SSVEP-BASED EEG SIGNALS ANALYSIS</b> .....	1962
<i>Harun Çig ; Mehmet Fatih Tüysüz</i>	
<b>REGRESSION-BASED SPEECH ENHANCEMENT BY CONVOLUTIONAL NEURAL NETWORK</b> .....	1966
<i>Mustafa Erseven ; Bülent Bolat</i>	
<b>A NOVEL AND SIMPLE METHOD FOR PANCHROMATIC SHARPENING</b> .....	1970
<i>Deniz Ekin Canbay</i>	
<b>SUBTHRESHOLD SIGNAL DETECTION IN HETEROGENEOUS NEURAL NETWORKS</b> .....	1973
<i>Ali Çalim ; Mahmut Özer ; Muhammet Uzuntarla</i>	
<b>A CASE STUDY ON TRANSFER LEARNING IN CONVOLUTIONAL NEURAL NETWORKS</b> .....	1977
<i>Cahit Deniz Gürkaynak ; Nafiz Arica</i>	
<b>TCP CONGESTION AVOIDANCE FOR SELECTIVE FLOWS IN SDN</b> .....	1981
<i>Ali Volkan Atli ; M. Serkant Uluderya ; Seyhan Civanlar ; Burak Görkemli ; A. Murat Tekalp</i>	
<b>USABILITY OF AUTHENTICATION MECHANISMS IN SECURE MESSAGING APPLICATIONS</b> .....	1985
<i>Gamze Akman ; Ali Aydin Selçuk</i>	
<b>EFFECT OF CHANNEL NOISE AND DYNAMIC SYNAPSE STRUCTURE ON LATENCY DYNAMICS IN NEURAL SYSTEM</b> .....	1989
<i>Ali Çalim ; Mahmut Özer ; Muhammet Uzuntarla</i>	
<b>A NOVEL MIMO SCHEME BASED ON CODE-INDEX MODULATION AND SPATIAL MODULATION</b> .....	1993
<i>Fatih Çögen ; Erdogan Aydin ; Nihat Kabaoglu ; Ertugrul Bagar ; Hacı İlhan</i>	
<b>COMPARISON OF SINE-FIT ALGORITHMS FOR REAL SIGNALS</b> .....	1997
<i>Recep Orhan ; Ahmet Serbes</i>	
<b>VEHICLE PLATE TRACKING SYSTEM</b> .....	2001
<i>Emrah Özbaysar ; Emin Borandag</i>	
<b>USING MOVIE POSTERS FOR PREDICTION OF BOX-OFFICE REVENUE WITH DEEP LEARNING APPROACH</b> .....	2005
<i>Kemal Özkan ; Osman Nuri Atak ; Sahin Isik</i>	
<b>LANE LINE DETECTION BY USING HOUGH TRANSFORM</b> .....	2009
<i>Hale Yenginer ; Hayriye Korkmaz</i>	

<b>CLASSIFICATION-BASED AND RULE-BASED METHODS FOR CLOUD DETECTION IN HIGH RESOLUTION SATELLITE IMAGERY</b> .....	2013
<i>Mehmet Efendioglu ; Savaş Özkan ; Caner Demirpolat ; Mustafa Teke ; Kaan Kalkan</i>	
<b>CHANNEL MEASUREMENT OF VISIBLE LIGHT COMMUNICATION FOR INDOOR ENVIRONMENT</b> .....	2017
<i>Cenk Albayrak ; Cemaleddin Simsek ; Emin Tugcu ; Ayhan Yazgan ; Hakan Erdöl ; Kadir Turk</i>	
<b>HYPERSPECTRAL IMAGING OF AUTOMOBILE EXHAUST GASES</b> .....	2021
<i>Emrah Oduncu ; Kivanç Uluca ; Umut Kayikci ; Berat Aytac ; Mustafa Sivasligil</i>	
<b>PERFORMANCE ANALYSIS OF DIMENSION REDUCTION ALGORITHMS ON EEG SIGNALS</b> .....	2025
<i>Sule Yapici ; Ümit Özsandikcioglu ; Ayten Atasoy</i>	
<b>R-PEAKS DETECTION WITH CONVOLUTIONAL NEURAL NETWORK IN ELECTROCARDIOGRAM SIGNAL</b> .....	2029
<i>Ramazan Özgür Dogan ; Temel Kayikcioglu</i>	
<b>QRS DETECTION ON IOS PLATFORM BASED ON SINGLE CHANNEL PRACTICAL ECG MEASUREMENT FOR REMOTE PATIENT MONITORING</b> .....	2033
<i>Furkan Avcu ; Adnan Kavak ; A. Burak Inner</i>	
<b>ALTERNATIVE APPROACHES FOR GROWTH MODELS: ARTIFICIAL NEURAL NETWORKS</b> .....	2037
<i>Recep Benzer ; Semra Benzer</i>	
<b>ANOMALY DETECTION IN HYPERSPECTRAL DATA WITH MATRIX DECOMPOSITION</b> .....	2040
<i>Fatma Küçük ; Behçet Ugur Töreyn ; Fatih Vehbi Çelebi</i>	
<b>EFFECT OF INPUT SIZE ON THE CLASSIFICATION OF LUNG NODULES USING CONVOLUTIONAL NEURAL NETWORKS</b> .....	2044
<i>Görkem Polat ; Yeçim Serinagaoglu Dogrusöz ; Ugur Halici</i>	
<b>SDN-CPS: SELECTING CODEC, PATH AND SERVER FOR VIDEO STREAMING OVER SDN</b> .....	2048
<i>Reza Shokri Kalan ; Shadi Bikas ; Bitu Kheibari ; Müge Sayit</i>	
<b>A FILTER SELECTION BASED PHYSICAL LAYER SECURITY SYSTEM</b> .....	2052
<i>Ali Yilmaz Yildirim ; Günes Karabulut Kurt</i>	
<b>THREE DIMENSIONAL MODELING OF TWIN ROTOR MIMO EXPERIMENTAL SETUP AND CONTROLLING WITH FUZZY LOGIC BASED HYBRID CONTROLLER APPLICATION</b> .....	2056
<i>Yilmaz Sefa Altanay ; Büsra Günes ; Halit Örenbas ; Savaş Sahin</i>	
<b>AN ENERGY EFFICIENT IOT PROTOCOL FOR HEALTHCARE AT HOME</b> .....	2060
<i>Miraç Bektas ; Sedat Görmüs</i>	
<b>IMAGE INPAINTING WITH LOCAL FEATURE EXTRACTION</b> .....	2064
<i>Yildiz Aydın ; Bekir Dizdaroglu</i>	
<b>THE EFFECT OF THE INCREASE IN THE NUMBER OF CHANNELS TO THE PERFORMANCE IN THE COSINE MODULATED FILTER BANK DESIGN</b> .....	2068
<i>Gokcen Ozdemir ; Nurhan Karaboga</i>	
<b>DECODING COGNITIVE SUBTASKS OF COMPLEX PROBLEM SOLVING USING FMRI SIGNALS</b> .....	2072
<i>Abdullah Alchihabi ; Baran B. Kivilicim ; Omer Ekmekci ; Sharlene D. Newman ; Fatos T. Yarman Vural</i>	
<b>COMPARISON OF VARIOUS FEATURE EXTRACTION METHODS IN DIGIT RECOGNITION</b> .....	2076
<i>Eray Yildiz ; Yusuf Sevim</i>	
<b>THE USAGE OF ARTIFICIAL NEURAL NETWORK AS POST PROCESSING ALGORITHM IN DIGITAL HOLOGRAPHY</b> .....	2079
<i>Gülhan Ustabas Kaya ; Zehra Saraç</i>	
<b>CLASSIFICATION OF POWER QUALITY EVENTS SIGNALS WITH PATTERN RECOGNITION METHODS BY USING HILBERT TRANSFORM AND GENETIC ALGORITHMS</b> .....	2083
<i>Seçkin Karasu ; Zehra Saraç</i>	
<b>PERFORMANCE ANALYSIS OF RULE BASED AUTOMATIC SNN ALGORITHM ON BIG DATA SETS</b> .....	2087
<i>Aslihan Çavus ; Armağan Karabina ; Erdal Kiliç</i>	
<b>ADAPTIVE POWER THRESHOLDING FOR REAL TIME THREAT DETECTION IN DISTRIBUTED ACOUSTIC SENSING SYSTEMS</b> .....	2091
<i>Hakan Maral ; Toygar Akgun ; Metin Aktas</i>	
<b>DESIGN OF QMF BANK ACCORDING TO POWER SPECTRAL INTENSITY USING ABC ALGORITHM</b> .....	2095
<i>Turker Koza ; Nurhan Karaboga</i>	
<b>SYNCHROPHASOR MEASUREMENT METHOD BASED ON QUADRATURE AMPLITUDE MODULATION</b> .....	2099
<i>Ali Gökoglu ; Özgül Salor ; A. S. Aselsan</i>	



<b>REAL-TIME DETECTION AND MITIGATION OF DISTRIBUTED DENIAL OF SERVICE (DDOS) ATTACKS IN SOFTWARE DEFINED NETWORKING (SDN)</b> .....	2103
<i>Babatunde Hafis Lawal ; A. T. Nuray</i>	
<b>ZERO TAIL DISCRETE COSINE TRANSFORM SPREAD OFDM WAVEFORM FOR 5G SYSTEMS</b> .....	2107
<i>Mükremin Kavlak ; Yasin Kus ; Ugur Elmagöz ; Ali Özen</i>	
<b>A NOVEL ANOMALY DETECTION APPROACH BASED ON NEURAL NETWORKS</b> .....	2111
<i>Tolga Ergen ; Mine Kerpiççi</i>	
<b>TARGET AUDIENCE SELECTION FOR DIRECT MARKETING</b> .....	2115
<i>Sinan Kegeci ; Eyüp Erkan Özbek ; Mustafa Sertaç Türkel ; Remzi Düzağaç ; Veri Bilimi ; Analitik Bölümü ; Olcay Taner Yıldız</i>	
<b>NEAR DUPLICATE DETECTION IN RELATIONAL DATABASES</b> .....	2119
<i>Ahmet Tugrul Bayrak ; Aykut Inan Yilmaz ; Kemal Burak Yilmaz ; Remzi Düzağaç ; Veri Bilimi ; Analitik Bölümü ; Olcay Taner Yıldız</i>	
<b>IMPROVING OF VIBE ALGORITHM FOR MOVING TARGET DETECTION AT MARITIME SURVEILLANCE</b> .....	2123
<i>Dogan Adigüzel ; Laie Özyılmaz</i>	
<b>CUSTOMER CLUSTERING USING RFM ANALYSIS</b> .....	2127
<i>Muhammet Pakyürek ; Mehmet Selman Sezgin ; Sedat Kestepel ; Büsra Bora ; Remzi Düzağaç ; Olcay Taner Yıldız</i>	
<b>REAL TIME AMBIGUITY RESOLUTION IN HYBRID AMPLITUDE/PHASE COMPARISON DIRECTION FINDING SYSTEMS</b> .....	2131
<i>Abdullah Emin Gürel ; Adnan Orduyılmaz ; Mahmut Serin ; Alper Yıldırım ; Gökhan Soysal</i>	
<b>REAL TIME CLASSIFICATION ANALYSIS IN DISTRIBUTED ACOUSTIC SENSING SYSTEMS</b> .....	2135
<i>Hakan Maral ; Toygar Akgun ; Metin Aktas</i>	
<b>PERFORMANCE OF INTERFERENCE ALIGNMENT IN COGNITIVE RADIO NETWORKS UNDER INTERFERENCE LEAKAGE</b> .....	2139
<i>Eylem Erdogan ; Mustafa Namdar ; Arif Basgumus ; Hakan Alakoca ; Lütfiye Durak-Ata</i>	
<b>DIRECTION FINDING WITH MUSIC ALGORITHM FOR ES SYSTEMS UNDER INTERFERENCE</b> .....	2143
<i>Omer Can Dabak ; Adnan Orduyılmaz ; Mahmut Serin ; Alper Yıldırım</i>	
<b>DESIGN OF NANOBEAM CAVITY WITH INVERSE OBJECTIVE-FIRST ALGORITHM</b> .....	2147
<i>Döne Yilmaz ; Mediha Tutgun ; Yusuf Abdülaziz Yilmaz ; Ahmet Mesut Alpkiliç ; Aydan Yeltik ; Hamza Kurt</i>	
<b>MANAGED P2P-ASSISTED VIDEO SERVICES OVER SDN</b> .....	2151
<i>Selin Yilmaz ; A. Murat Tekalp</i>	
<b>FEASIBILITY OF APPLYING PATTERN SEARCH OPTIMIZATION TO OPTICAL COUPLERS</b> .....	2155
<i>Pinar Özkan-Bakbak ; N. Özlem Ünverdi</i>	
<b>A COMPARISON OF HADOOP, SPARK AND STORM FOR THE TASK OF LARGE SCALE IMAGE CLASSIFICATION</b> .....	2159
<i>Mohamed Abbas Hedjazi ; Ikram Kourbane ; Yakup Genc ; Behloul Ali</i>	
<b>COMPUTER NETWORK INTRUSION DETECTION USING SEQUENTIAL LSTM NEURAL NETWORKS AUTOENCODERS</b> .....	2163
<i>Ali H. Mirza ; Selin Cosan</i>	
<b>DIGITAL COMMUNICATION USING ROBUST ESTIMATORS UNDER SKEWED ALPHA-STABLE DISTRIBUTED NOISE</b> .....	2167
<i>Özge Sentürk ; Mehmet Emre Çek</i>	
<b>PERFORMANCE ANALYSIS OF SOFTWARE-DEFINED NETWORK APPROACH FOR WIRELESS COGNITIVE RADIO NETWORKS</b> .....	2171
<i>Murtaza Cicioglu ; Seda Cicioglu ; Ali Çalhan</i>	
<b>DETECTION OF PLANT DISEASES BY MACHINE LEARNING</b> .....	2175
<i>Umut Baris Korkut ; Ömer Berke Göktürk ; Oktay Yıldız</i>	
<b>TARGET CLASSIFICATION FROM RADAR CROSS SECTION USING HIDDEN MARKOV MODEL</b> .....	2179
<i>Hasan Ihsan Turhan ; Mübeccel Demirekler ; Duygu Acar</i>	
<b>FPGA IMPLEMENTATION OF SYMBOL TIMING SYNCHRONIZATION FOR OFDM SYSTEMS</b> .....	2183
<i>Murat Can Karakoç ; Emre Kirkaya ; Özgün Ersoy ; Mahir Sanli ; Adem Çiçek ; Enver Çavuş ; Serdar Özyurt ; Mehmet Ali Gülten</i>	
<b>COMPUTER-AIDED AUTOMATIC SEGMENTATION OF BRAIN TUMORS USING S-FCM ON MR IMAGES</b> .....	2187
<i>Emre Dandil ; Ali Osman Selvi</i>	
<b>BASEBAND IMPLEMENTATION OF HIGH SPEED COMMUNICATION SYSTEM ON FPGA</b> .....	2191
<i>Mustafa Öztürk ; Emre Kirkaya ; Ersen Balcisoy ; Mahir Sanli ; Adem Çiçek ; Enver Çavuş</i>	

<b>COMPARING THE PERFORMANCES OF PDF AND PCA ON PARKINSON'S DISEASE CLASSIFICATION USING STRUCTURAL MRI IMAGES .....</b>	<b>2195</b>
<i>Ozkan Cigdem ; Arif Yilmaz ; Iman Beheshti ; Hasan Demirel</i>	
<b>A SOFTWARE-DEFINED NETWORK BASED LIGHTWEIGHT CLUSTER.....</b>	<b>2199</b>
<i>Cavit Kara ; Ertan Onur</i>	
<b>ELEVATOR PARKING APPROACH IN NEAREST CAR METHOD .....</b>	<b>2203</b>
<i>Cebraül Çiflikli ; Emre Öner Tartan</i>	
<b>HUMAN-ANIMAL RECOGNITION IN CAMERA TRAP IMAGES.....</b>	<b>2207</b>
<i>Emrah Simsek ; Baris Özyer ; Levent Bayindir ; Gülsah Tümüklü Özyer</i>	
<b>ELECTROENCEPHALOGRAPHIC IDENTIFIERS OF READING ABILITIES IN TURKISH LANGUAGE .....</b>	<b>2211</b>
<i>Günet Eroglu ; Müjdat Çetin ; Selim Balcisoy</i>	
<b>TRAFFIC SIGN RECOGNITION WITH HIERARCHICAL CONVOLUTIONAL NEURAL NETWORK.....</b>	<b>2215</b>
<i>Emin Alper Sürücü ; Hatice Dogan</i>	
<b>MOBIL APPLICATION FOR AUTOMATIC DOCUMENT SUMMARIZATION SYSTEMS .....</b>	<b>2219</b>
<i>Oguz Kaynar ; Yunus Emre Isik ; Yasin Görmez ; Emre Kus</i>	
<b>COMPUTER NETWORK INTRUSION DETECTION USING VARIOUS CLASSIFIERS AND ENSEMBLE LEARNING.....</b>	<b>2223</b>
<i>Ali H. Mirza</i>	
<b>A NEURAL NETWORK APPROACH FOR PREDICTING SPEEDS ON ROAD NETWORKS.....</b>	<b>2227</b>
<i>Umut Can Çakmak ; Bülent Çatay ; Mehmet Serkan Apaydin</i>	
<b>FPGA IMPLEMENTATION OF MMSE CHANNEL ESTIMATION ALGORITHM USING SYSTEM GENERATOR .....</b>	<b>2231</b>
<i>Mahir Sanli ; Mustafa Öztürk ; Ersen Balcisoy ; Murat Can Karakoç ; Emre Kirkaya ; Adem Çiçek ; Serdar Özyurt ; Enver Çavus</i>	
<b>CONTENT BASED IMAGE RETRIEVAL OF REMOTE SENSING IMAGES BASED ON DEEP FEATURES.....</b>	<b>2235</b>
<i>Özgü Göksu ; Erchan Aptoula</i>	
<b>A HIGHLY EFFICIENT RECURRENT NEURAL NETWORK ARCHITECTURE FOR DATA REGRESSION.....</b>	<b>2239</b>
<i>Tolga Ergen ; Emir Ceyani</i>	
<b>SPEECH RECOGNITION ON MOBILE DEVICES IN NOISY ENVIRONMENTS.....</b>	<b>2243</b>
<i>Yaser Yurtcan ; Banu Günel Kiliç</i>	
<b>ZERO TAIL UNIQUE WORD DISCRETE SINE TRANSFORM SPREAD OFDM.....</b>	<b>2247</b>
<i>Yasin Kus ; Mükremin Kavlak ; Ugur Elmagöz ; Ali Özen</i>	
<b>IMPROVING COGNITIVE FUNCTIONS OF DYSLEXIES USING MULTI-SENSORY LEARNING AND EEG NEUROFEEDBACK.....</b>	<b>2251</b>
<i>Günet Eroglu ; Serap Aydin ; Müjdat Çetin ; Selim Balcisoy</i>	
<b>A HYBRID MODE OF OPERATION FOR RPL NEWTORKS .....</b>	<b>2255</b>
<i>Mehmet Sarioglu ; Sema F. Oktug</i>	
<b>LOCALIZATION OF LEAKAGES IN UNDERWATER NATURAL GAS PIPELINES FOR MULTIPATH PROPAGATION.....</b>	<b>2259</b>
<i>Yigit Mahmutoglu ; Kadir Türk</i>	
<b>PPG SIGNAL-BASED PRE-CLINICAL USAGE ARRHYTHMIA DETECTION METHOD.....</b>	<b>2263</b>
<i>Erdem Yanar ; Yesim Serinagaoglu Dogrusöz</i>	
<b>CLASSIFICATION OF DIFFERENT BLACK TEAS WITH E-NOSE .....</b>	<b>2267</b>
<i>Yavuz Kaban ; Ayten Atasoy ; Ümit Özsandikcioglu</i>	
<b>ONLINE DEAD BODY DETECTION EXPERIMENT WITH AN UNMANNED UNDERWATER VEHICLE.....</b>	<b>2271</b>
<i>Merve Berik ; Seda Karadeniz Kartal</i>	
<b>GROUND TEXTURE CLASSIFICATION WITH DEEP LEARNING .....</b>	<b>2275</b>
<i>Mustafa Özüysal</i>	
<b>PREPROCESSING IMPACT ON TURKISH SENTIMENT ANALYSIS.....</b>	<b>2279</b>
<i>Hala Mulki ; Hatem Haddad ; Chedi Bechikh Ali ; Ismail Babaoglu</i>	
<b>BITCOIN PRICE FORECAST VIA BLOCKCHAIN TECHNOLOGY AND ARTIFICIAL INTELLIGENCE ALGORITHMS.....</b>	<b>2283</b>
<i>Burcu Sakiz ; Esra Kutlugün</i>	
<b>A STATISTICAL EDGE DETECTION FRAMEWORK FOR NOISY IMAGES .....</b>	<b>2287</b>
<i>Elvan Duman ; O. Ayhan Erdem</i>	
<b>DEEP NEURAL NETWORK TRAINING WITH IPSO ALGORITHM.....</b>	<b>2291</b>
<i>Mehmet Muzaffer Kösten ; Murat Barut ; Nurettin Acir</i>	

<b>A DATASET FOR TURKISH DIALECT RECOGNITION AND CLASSIFICATION WITH DEEP LEARNING</b> .....	2295
<i>Gültekin Isik ; Harun Artuner</i>	
<b>DVB-T TRANSMISSION OVER REALTIME CONDITIONS BY SOFTWARE DEFINED RADIO</b> .....	2299
<i>Tamer Kaya ; Bahattin Karakaya</i>	
<b>A COMPARISON OF ACTIVATION FUNCTIONS IN ARTIFICIAL NEURAL NETWORKS</b> .....	2303
<i>Cenk Bircanoglu ; Nafiz Arica</i>	
<b>VOLUMETRIC V-SHAPED ARRAY DESIGN FOR 2-D ISOTROPIC DOA ESTIMATION</b> .....	2307
<i>Fesih Keskin ; Tansu Filik</i>	
<b>NARROW DUAL BAND FREQUENCY SELECTIVE SURFACE DESIGN FOR X-BAND APPLICATION</b> .....	2311
<i>Mehmet A. Belen ; Ahmet H. Gülseren ; Filiz Günes</i>	
<b>NEW MICROSTRIP ANTENNA BASED ON QUASI-FRACTAL GEOMETRY FOR RECENT WIRELESS SYSTEMS</b> .....	2315
<i>Yaqeen S. Mezaal ; Seevan F. Abdulkareem</i>	
<b>PATCH WARPING BASED FACE FRONTALIZATION</b> .....	2319
<i>Merve Elmas Erdem ; Cihan Topal</i>	
<b>OPEN PLATFORM FOR ATTACK AND COUNTERMEASURE ANALYSIS ON SYSTEM SECURITY</b> .....	2323
<i>Özgün Bal ; Mutlu Koca ; Emin Anarım</i>	
<b>LOGO RECOGNITION VIA FUSION OF SPATIAL AND SPECTRAL FEATURES</b> .....	2327
<i>Sahar Shakir ; Caner Gacav ; Cihan Topal</i>	
<b>STUDY OF ANGLE OF ARRIVAL ESTIMATION PERFORMANCE OF MVDR AND CAPON METHODS UNDER INTERMITTENT INTERFERENCE</b> .....	2331
<i>Safak Bilgi Akdemir ; Çagatay Candan</i>	
<b>SKIPVIS: A SKIP GRAPH VISUALIZER</b> .....	2335
<i>Yahya Hassanzadeh-Nazarabadi ; Canberk Ekmekçi ; Esin Menceloglu ; Öznur Özkasap</i>	
<b>DETECTION OF ACUTE MYOCARDIAL ISCHEMIA BASED ON SUPPORT VECTOR MACHINES</b> .....	2339
<i>Merve Begüm Terzi ; Orhan Arıkan</i>	
<b>SALIENT REGION DETECTION AND SPARSE REPRESENTATION BASED SUPER-RESOLUTION APPROACH FOR CHROMOSOME IMAGES</b> .....	2343
<i>Ömer Berk ; Abdulkemir Çapar ; Behçet Ugur Töreyn</i>	
<b>TASK ORIENTED 3D SAMPLING VIA GENETIC ALGORITHMS</b> .....	2347
<i>Tolga Birdal</i>	
<b>COMPUTER-ASSISTED DIAGNOSIS OF VERTEBRAL COLUMN DISEASES BY ADAPTIVE NEURO-FUZZY INFERENCE SYSTEM</b> .....	2351
<i>Ruhiye Uzun ; Yalçın Isler ; Okan Erkaşmaz ; Yasemin Kocadayı</i>	
<b>MULTIMODAL PREDICTION OF HEAD NODS IN DYADIC CONVERSATIONS</b> .....	2355
<i>B. Berker Türker ; M. Tevfik Sezgin ; Yücel Yemez ; Engin Erzin</i>	
<b>FILTER DEVELOPMENT FOR AUTOMATIC DETECTION OF ANALYZABLE METAPHASES</b> .....	2359
<i>Hakan Yılmaz ; M. Kamil Turan</i>	
<b>A DISCRIMINATIVE MODEL FOR CONTEXTUAL CLASSIFICATION OF HYPERSPECTRAL IMAGES</b> .....	2363
<i>Sezer Kutluk ; Koray Kayabol ; Aydın Akan</i>	
<b>SELECTION OF ELIGIBLE CHANNEL AND FREQUENCY COMPONENTS FOR VISUAL EVOKED EEG APPLICATIONS</b> .....	2367
<i>Ali Osman Selvi ; Abdullah Ferikoglu ; Derya Güzel ; Emre Dandil</i>	
<b>SHAPE RECOGNITION WITH LOW COST SENSORS</b> .....	2371
<i>Keziban Saloglu ; Arda Hosafçi ; Merve Birbilen ; Yigit A. Bulut ; Ahmet Gunes</i>	
<b>EFFECT OF THE ERROR PROPAGATION ON THE ERROR PERFORMANCE OF COOPERATIVE COMMUNICATIONS WITH THE BEST RELAY SELECTION SCHEMES</b> .....	2375
<i>Ezgi Sanli ; Ferdi Kara ; Hakan Kaya</i>	
<b>DERIVATION OF THE CLOSED-FORM BER EXPRESSIONS FOR DL-NOMA OVER NAKAGAMI-M FADING CHANNELS</b> .....	2379
<i>Ferdi Kara ; Hakan Kaya</i>	
<b>ELLIPTICAL SIGNAL MODEL BASED SIMULTANEOUS PARAMETER ESTIMATION IN BSSFP IMAGING</b> .....	2383
<i>Kübra Keskin ; Tolga Çukur</i>	
<b>SOIL MOISTURE ESTIMATION WITH INVERSE DISTANCE WEIGHTING FOR HOME AGRICULTURE APPLICATIONS</b> .....	2387
<i>Hilâl Türk ; Behçet Ugur Töreyn</i>	

<b>EXTRACTING TABLE DATA FROM IMAGES USING OPTICAL CHARACTER RECOGNITION TEXT .....</b>	<b>2391</b>
<i>Mehmet Yasin Akpınar ; Erdem Emekligil ; Seçil Arslan</i>	
<b>PERFORMANCE ANALYSIS OF MAC TECHNIQUE DEVELOPED FOR WIRELESS COGNITIVE RADIO NETWORKS .....</b>	<b>2395</b>
<i>Murtaza Cicioglu ; M. Enes Bayraktar ; Ali Çalhan</i>	
<b>ANALYSIS OF RAMER-DOUGLAS-PEUCKER ALGORITHM AS A DISCRETIZATION METHOD .....</b>	<b>2399</b>
<i>Furkan Goz ; Alev Mutlu ; Orhan Akbulut</i>	
<b>PARKING SPACE OCCUPANCY DETECTION USING DEEP LEARNING METHODS .....</b>	<b>2403</b>
<i>Murat Karakaya ; Fatih Can Akinci</i>	
<b>SEMI-SUPERVISED METHOD FOR DETERMINING THE MAXILLARY AND MANDIBULAR BOUNDARIES ON PANORAMIC RADIOGRAPHS .....</b>	<b>2407</b>
<i>Berkay Kagan Ülkü ; Imam Samil Yetik ; Ahmet Kürsad Çulhaoglu ; Kaan Orhan ; Mehmet Ali Kiliçarslan</i>	
<b>AUTOMATIC SEGMENTATION AND APPLIED ANALYSIS OF LIVER ON COMPUTED TOMOGRAPHY SCANS .....</b>	<b>2411</b>
<i>Emre Dandil ; Yasin Erdinç ; Ali Osman Selvi</i>	
<b>KINEMATIC ANALYSIS OF HUMAN GAIT WITH THREE DEGREES OF FREEDOM .....</b>	<b>2415</b>
<i>Tuna Orhanli ; Atila Yilmaz</i>	
<b>PREDICTION AND COMPRESSION OF MULTI-TEMPORAL HYPERSPECTRAL IMAGES USING LUMINANCE TRANSFORM .....</b>	<b>2419</b>
<i>Ali Can Karaca ; M. Kemal Güllü</i>	
<b>USING ANGIO IMAGE SEQUENCE FOR CORONARY VESSEL SEGMENTATION .....</b>	<b>2423</b>
<i>Mehmet Emin Tenekeci ; Hüseyin Pehlivan ; Abdülkadir Gümüüşü ; Kerim Karadag</i>	
<b>DETERMINING DENSITIES OF MICROPARTICLES IN A MAGNETIC LEVITATION PLATFORM USING AUTOMATED DIGITAL IMAGE ANALYSIS .....</b>	<b>2427</b>
<i>H. Cumhuri Tekin</i>	
<b>MATHEMATICAL MODELING OF STOCHASTIC RESONANCE SYSTEMS .....</b>	<b>2431</b>
<i>A. Çağrı Arlı ; Orhan Gazi</i>	
<b>INITIALIZATION OF CONVOLUTIONAL NEURAL NETWORKS BY GABOR FILTERS .....</b>	<b>2435</b>
<i>Gökhan Özbülak ; Hazim Kemal Ekenel</i>	
<b>DIAGNOSIS OF EPILEPSY IN BRAIN MR IMAGES USING DCT-MEANS .....</b>	<b>2439</b>
<i>Fatma Demirezen Yagmur ; Ahmet Sertbas</i>	
<b>BB84 PROTOCOL SIMULATION WITH APPLYING OF CASCADE ERROR CORRECTION METHOD .....</b>	<b>2443</b>
<i>Idris Türker ; Mehmet Akif Nacar ; Mehmet Emin Tenekeci</i>	
<b>PREDICTION OF BITCOIN PRICES WITH MACHINE LEARNING METHODS USING TIME SERIES DATA .....</b>	<b>2447</b>
<i>Seçkin Karasu ; Aytaç Altan ; Zehra Saraç ; Rifat Hacıoğlu</i>	
<b>ENVIRONMENTAL INFORMATION ACQUISITION WITH DEEP LEARNING .....</b>	<b>2451</b>
<i>Anil Çetinsoy</i>	
<b>HYPERSPECTRAL IMAGE RESOLUTION ENHANCEMENT BY USING SPECTRAL RATIO AND GUIDED FILTER .....</b>	<b>2454</b>
<i>Davut Çesmeci ; M. Kemal Güllü</i>	
<b>COMPRESSION OF HYPERSPECTRAL IMAGES USING ADAPTIVE LUMINANCE TRANSFORM .....</b>	<b>2458</b>
<i>Ergün Can ; Ali Can Karaca ; Mehmetali Danisman ; Oguzhan Urhan ; M. Kemal Güllü</i>	
<b>PERFORMANCE ANALYSIS OF GRAPHICAL PROCESSORS WITH CALCULATION OF SUM OF PAIRS SCORE .....</b>	<b>2462</b>
<i>Selçuk Aslan ; Alperen Aksoy ; Melih Günay</i>	
<b>DETERMINATION OF WATER STRESS FOR PEPPER FROM SPECTRAL REFLECTIONS THROUGH ARTIFICIAL LEARNING METHODS .....</b>	<b>2466</b>
<i>Kerim Karadag ; Ramazan Tasaltin ; Mehmet Emin Tenekeci ; Abdülkadir Gümüüşü</i>	
<b>EFFECTS OF HYPERSPECTRAL IMAGE COMPRESSION METHODS ON CLASSIFICATION .....</b>	<b>2470</b>
<i>Mehmetali Danisman ; Ali Can Karaca ; Ergün Can ; Oguzhan Urhan ; M. Kemal Güllü</i>	
<b>A MULTI-VIEW FACE DATABASE FROM TURKISH TV SERIES .....</b>	<b>2474</b>
<i>Ahmet Özlü ; Hazim Kemal Ekenel</i>	
<b>ANDROID MALWARE DETECTION BASED ON RUNTIME BEHAVIOUR .....</b>	<b>2478</b>
<i>Kürsat Aktas ; Sevil Sen</i>	
<b>BLADE ANTENNA DESIGN FOR UHF APPLICATIONS .....</b>	<b>2482</b>
<i>Aysu Belen ; Hakan P. Partal ; Sezgin Örddek ; Mehmet A. Belen</i>	

<b>WHO DRAW THIS? CARICATURIST RECOGNITION USING CONVOLUTIONAL NEURAL NETWORKS.....</b>	2486
<i>Samet Hiçsönmez ; Nermin Samet ; Emre Akbas ; Pinar Duygulu</i>	
<b>COMPARISON OF SPLIT COMPLEX-VALUED METAHEURISTIC OPTIMIZATION ALGORITHMS FOR SYSTEM IDENTIFICATION PROBLEM.....</b>	2490
<i>Engin Cemal Mengüç ; Murat Peker ; Salim Çınar</i>	
<b>MINIMIZING AGE OF INFORMATION ON MULTI-FLOW NETWORKS.....</b>	2494
<i>Hasan Burhan Beytur ; Elif Uysal-Biyikoglu</i>	
<b>A MULTI-LAYERED APPROACH TO SECURING ENTERPRISE APPLICATIONS BY USING TLS, TWO-FACTOR AUTHENTICATION AND SINGLE SIGN-ON.....</b>	2498
<i>Alaattin Burak Bekmezci ; Çigdem Eris ; Pinar Sarisaray Bölük</i>	
<b>ELIMINATION OF RABBIT EAR EFFECT IN DIGITAL CHANNELIZED RECEIVERS.....</b>	2502
<i>Ismail Emre Ortatli ; Adnan Orduyılmaz ; Ömer Özdiil ; Alper Yıldırım</i>	
<b>SOLVING WIRELESS SENSOR DEPLOYMENT PROBLEM WITH PARALLEL ARTIFICIAL BEE COLONY ALGORITHM.....</b>	2506
<i>Selçuk Aslan ; Alperen Aksoy</i>	
<b>PERFORMANCE ANALYSIS OF ONE-BIT TRANSFORM BASED MOTION ESTIMATION USING SPARSE SEARCH ON HEVC.....</b>	2510
<i>Ramazan Duvar ; Ayhan Küçükmanisa ; Orhan Akbulut ; Aysun Tasyapi Çelebi ; Oguzhan Urhan</i>	
<b>COMPARISON OF FEATURE SELECTION METHODS IN VOICE BASED EMOTION RECOGNITION SYSTEMS.....</b>	2514
<i>Tolga Atalay ; Deger Ayata ; Yusuf Yaslan</i>	
<b>CONTROL OF UNMANNED AERIAL VEHICLES USING SELF TUNING FUZZY PID.....</b>	2518
<i>Hasan Saribas ; Ali Tatli ; Atilla Onrat</i>	
<b>THE EFFECT OF CODEBOOK DESIGN ON THE BER PERFORMANCE OF MTC SYSTEMS EMPLOYING SCMA.....</b>	2522
<i>Ferdi Tekçe ; Evren Çatak ; Umut Engin Ayten ; Lutfiye Durak-Ata</i>	
<b>RGB COLOR BASED OCCUPANCY RATE DETECTION OF INDOOR SPACES.....</b>	2526
<i>Aysenur Gilik ; Kubilay Demir ; Atilla Özmen</i>	
<b>DISTRIBUTED LANDMARK PLACEMENT IN P2P NETWORKS.....</b>	2530
<i>Sanaz Taheri Boshrooyeh ; Öznur Özkasap ; Baris Akgün</i>	
<b>CLASSIFICATION OF REFRACTIVE DISORDERS FROM ELECTROOCULOGRAM (EOG) SIGNALS BY USING DATA MINING TECHNIQUES.....</b>	2534
<i>Ceren Kaya ; Okan Erkamaymaz ; Orhan Ayar ; Mahmut Özer</i>	
<b>MICROSTRIP ANTENNA DESIGN WITH LOW FREQUENCY.....</b>	2538
<i>Ali Eksim ; Onur Cumurcu</i>	
<b>ACTIVITY RECOGNITION AND TRACKING SYSTEM FOR DOMESTIC ANIMALS.....</b>	2542
<i>Guneycan Demir ; Aysegul Tuysuz Erman</i>	
<b>SECURE GATEWAY FOR NETWORK LAYER SAFETY IN IOT SYSTEMS.....</b>	2546
<i>Sinan Divarci ; Oguzhan Urhan</i>	
<b>ETIKET: SYSTEM FOR TRACKING THE CONTENTS OF THE PACKAGED FOOD PRODUCTS.....</b>	2550
<i>Özlem Durmaz Incel ; Mustafa Incel</i>	
<b>FAST DST OPTIMIZATIONS FOR INTRA-FRAME CODING.....</b>	2554
<i>M. Hüsvrev Cilasun ; Fatih Kamisli</i>	
<b>RECURRENT NEURAL NETWORKS FOR TURKISH NAMED ENTITY RECOGNITION.....</b>	2558
<i>Onur Güngör ; Suzan Üsküdarli ; Tunga Güngör</i>	
<b>LANDING PAGE COMPONENT CLASSIFICATION WITH CONVOLUTIONAL NEURAL NETWORKS FOR ONLINE ADVERTISING.....</b>	2562
<i>Gülsah Ayhan ; Çağla Senel ; Zeynep Eda Uran ; Behçet Ugur Töreysin</i>	
<b>DOCUMENT CLASSIFICATION OF SUDER TURKISH NEWS CORPORA.....</b>	2566
<i>Mehmet Umur Sen ; Berrin Yanikoglu</i>	
<b>PRECISE TORQUE ESTIMATION IN INTERIOR PERMANENT MAGNET MACHINES.....</b>	2570
<i>Abdülkerim Gündogan ; Ahmet Faruk Bakan</i>	
<b>A COMPARISON OF INPAINTING TECHNIQUES IN IMAGE REANIMATION.....</b>	2574
<i>Ece Selin Böncü ; Savas Özkan ; Gözde Bozdagi Akar</i>	
<b>ONLINE CROSS-LAYER LEARNING IN HETEROGENEOUS COGNITIVE RADIO NETWORKS WITHOUT CSI.....</b>	2578
<i>Muhammad Anjum Qureshi ; Cem Tekin</i>	
<b>OPTIMIZING AGE OF INFORMATION ON REAL-LIFE TCP/IP CONNECTIONS THROUGH REINFORCEMENT LEARNING.....</b>	2582
<i>Egemen Sert ; Canberk Sönmez ; Sajjad Baghaee ; Elif Uysal-Biyikoglu</i>	

<b>EFFECT OF DISTANCE METRICS ON POSITIONING ACCURACY</b> .....	2586
<i>Umut Can Altin ; Nuray At ; Cihan Topal</i>	
<b>A GREEDY ALGORITHM FOR SPARSE UNMIXING</b> .....	2590
<i>Kemal Gürkan Toker ; Seniha Esen Yüksel</i>	
<b>ANOMALY DETECTION IN WALKING TRAJECTORY</b> .....	2594
<i>Arif Selçuk Öğrenci</i>	
<b>DESIGN OF A NEW MECHANISM IN MEDICAL APPLICATIONS WITH LASER</b> .....	2598
<i>Samet Çiklaçandır ; Yalçın Isler</i>	
<b>PREDICTING DRUG ACTIVITY BY IMAGE ENCODED GENE EXPRESSION PROFILES</b> .....	2602
<i>Ozan Firat Özgül ; Batuhan Bardak ; Mehmet Tan</i>	
<b>CLASSIFICATION OF HAPLOID AND DIPLOID MAIZE SEEDS BY USING IMAGE PROCESSING TECHNIQUES AND SUPPORT VECTOR MACHINES</b> .....	2606
<i>Yahya Altuntas ; Adnan Fatih Kocamaz ; Rahime Cengiz ; Mesut Esmeray</i>	
<b>TURKISH MEANINGFUL TEXT GENERATION WITH CLASS BASED N-GRAM MODEL</b> .....	2610
<i>Mehmet Ali Kutluğün ; Yahya Sirin</i>	
<b>BALLISTIC COEFFICIENT LEARNING BASED IMPACT POINT PREDICTION OF BALLISTIC TARGETS</b> .....	2614
<i>Firat Kumru ; Emre Altuntas ; Tamer Akça</i>	
<b>DESIGN AND IMPLEMENTATION OF REAL TIME FACE TRACKING HUMANOID ROBOT</b> .....	2618
<i>Yazarlar Gizlenmiştir</i>	
<b>HYPERSPECTRAL AND MULTISPECTRAL IMAGE FUSION BASED ON SPECTRAL DECOMPOSITION AND NEIGHBORHOOD RELATION</b> .....	2622
<i>Davut Çesmeci ; M. Kemal Güllü</i>	
<b>AUTOMATED CELL SEGMENTATION AND SPOT DETECTION IN FLUORESCENCE IN SITU HYBRIDIZATION STAINING TO ASSESS HER2 STATUS IN BREAST CANCER</b> .....	2626
<i>Sükrü Burak Çetin ; Fariba D. Khameneh ; Ercan Alp Serteli ; Sercan Çayır ; Gökhan Hatipoğlu ; Mustafa Kamasak ; Samet Ayaltı ; Salar Razavi ; Yakup Budancamanak ; Gülsah Özsoy</i>	
<b>RECURRENT NEURAL NETWORKS BASED ONLINE LEARNING ALGORITHMS FOR DISTRIBUTED SYSTEMS</b> .....	2630
<i>Tolga Ergen ; S. Onur Sahin ; S. Serdar Kozat</i>	
<b>DATASET AUGMENTATION FOR ACCURATE OBJECT DETECTION</b> .....	2634
<i>Muhammed Çağrı Uysal ; Tugay Karapınar ; Burak Benligiray ; Cihan Topal</i>	
<b>EFFECTIVENESS OF ONLINE RF FINGERPRINTING FOR INDOOR LOCALIZATION</b> .....	2638
<i>Husam Othman ; Nuray At ; Cihan Topal</i>	
<b>SPEAKER INDEPENDENT TURKISH SPEECH RECOGNITION OPTIMIZATION WITH ENERGY DERIVATES ON FEATURE VECTORS</b> .....	2642
<i>Mert Yılmaz Çakır ; Yahya Sirin</i>	
<b>PERFORMANCE ANALYSIS OF PANSHARPENING APPROACHES ON GÖKTÜRK-2 SATELLITE IMAGES</b> .....	2646
<i>Sevcan Kahraman ; Alp Ertürk</i>	
<b>FACIAL EXPRESSION RECOGNITION WITH FHOG FEATURES</b> .....	2650
<i>Caner Gacav ; Burak Benligiray ; Kemal Özkan ; Cihan Topal</i>	
<b>SPECTRAL PERFORMANCE ANALYSIS OF COSH WINDOW BASED NEW TWO PARAMETER HYBRID WINDOWS</b> .....	2654
<i>Kemal Avci ; Oğuzhan Coskun</i>	
<b>SUCCESSIVE PAPR REDUCTION OF OFDM SYSTEMS VIA ROTATION OF OPTIMALLY SELECTED INFORMATION SYMBOLS</b> .....	2658
<i>A. Çağrı Arlı ; Orhan Gazi</i>	
<b>SEGMENTATION OF THE MAIN STRUCTURES IN HEMATOXYLIN AND EOSIN IMAGES</b> .....	2662
<i>Sercan Çayır ; Ercan Alp Serteli ; Samet Ayaltı ; Sükrü Burak Çetin ; Gökhan Hatipoğlu ; Mustafa Kamasak ; Çisem Yazıcı ; Salar Razavi ; Fariba D. Khameneh ; Imam Samil Yetik ; Ekrem Çihad Çetin</i>	
<b>A COMPARATIVE STUDY ON FUSION OF VISIBLE AND INFRARED IMAGES</b> .....	2666
<i>Sadettin Durmus Talipoğlu ; Koray Kayabol ; Kutalmis Gökalgı Ince</i>	
<b>GENE REGULATORY NETWORK INFERENCE FROM GENE EXPRESSION DATASET USING AUTOENCODER</b> .....	2670
<i>Ismail Bilgen ; Ömer Sinan Saraç</i>	
<b>NETWORK ANOMALY DETECTION WITH DEEP LEARNING</b> .....	2674
<i>Ugur Çekmez ; Zeki Erdem ; Ali Gökhan Yavuz ; Özgür Koray Sahingöz ; Ali Buldu</i>	
<b>HIGH-DIMENSIONAL AND WIDE-SCALE ANOMALY DETECTION USING ENHANCING SUPPORT VECTOR MACHINE</b> .....	2678
<i>Ibrahim Gümüş ; Yahya Sirin</i>	

<b>ACCURATE PUPIL BOUNDARY DETECTION USING ANGULAR INTEGRAL PROJECTION AND BEZIER CURVES .....</b>	<b>2682</b>
<i>Hidden Authors</i>	
<b>A HEURISTIC ALGORITHM FOR CHAN-VESE MODEL .....</b>	<b>2688</b>
<i>Hatice Çataloluk ; Fatih Vehbi Çelebi</i>	
<b>SEGMENTATION AND CLASSIFICATION OF CONTRACTIONS IN UTERINE 16 CHANNELS EMG SIGNALS FOR PRETERM BIRTH PREDICTION .....</b>	<b>2692</b>
<i>Ayşe Tasdögen Koçak ; Atila Yılmaz</i>	
<b>DETERMINING COMPLEXITY WITHIN THE CROWD MOVEMENTS .....</b>	<b>2696</b>
<i>Murat Akpulat ; Murat Ekinci</i>	
<b>PATH OPENING BASED ROAD EXTRACTION FOR GOKTURK-2 IMAGES .....</b>	<b>2700</b>
<i>Gözdenur Yesilyurt ; Alp Ertürk</i>	
<b>SEMANTIC SEGMENTATION OF FOOD IMAGES FOR AUTOMATIC DIETARY MONITORING .....</b>	<b>2704</b>
<i>Sinem Aslan ; Gianluigi Ciocca ; Raimondo Schettini</i>	
<b>A SEGMENTATION METHOD FOR ASPHALT QUALITY ANALYSIS .....</b>	<b>2708</b>
<i>Önder Civelek ; Mehmet Öztürk ; Tuba Küçük ; Sezai Küçük</i>	
<b>DETECTING SIMILAR NEWS BY SUMMARIZING TURKISH NEWS .....</b>	<b>2712</b>
<i>Hakan Torun ; A. Burak Inner</i>	
<b>AN ALTERNATIVE FUZZY SET USAGE FOR REDUCING FIXED IMPULSE NOISE .....</b>	<b>2716</b>
<i>Gülcan Yıldız ; Dogan Yıldız</i>	
<b>A NOVEL APPROACH IMPROVEMENT FRAMEWORK FOR TEXT TO SPEECH SYNTHESIS .....</b>	<b>2720</b>
<i>Mehmet Ali Kutlugün ; Yahya Sirin</i>	
<b>SINGLE IMAGE SUPER RESOLUTION USING DEEP CONVOLUTIONAL GENERATIVE NEURAL NETWORKS .....</b>	<b>2724</b>
<i>Ceren Güzel Turhan ; Hasan Sakir Bilge</i>	
<b>DISCRIMINATION ON OFFLOADING PERFORMANCE IN TWO-CLASS MOBILE EDGE COMPUTING SYSTEMS .....</b>	<b>2728</b>
<i>Kahlan Aljobory ; Mehmet Akif Yazıcı</i>	
<b>THERMAL IMAGE ANALYSIS FOR NEONATAL INTENSIVE CARE UNITS (FIRST EVALUATION RESULTS) .....</b>	<b>2732</b>
<i>Duygu Savasci ; Murat Ceylan</i>	
<b>ENERGY EFFICIENCY OPTIMIZATION OF HETEROGENEOUS NETWORKS .....</b>	<b>2736</b>
<i>Mahmut Demirtas ; Alkan Soysal</i>	
<b>HAPTIC INDUSTRIAL ROBOT CONTROL AND BILATERAL TELEOPERATION BY USING A VIRTUAL VISUAL INTERFACE .....</b>	<b>2740</b>
<i>Tayfun Abut ; Servet Soygüder</i>	
<b>COMPARISON OF WINDOWING TECHNIQUES FOR SPEECH RECOGNITION SYSTEM .....</b>	<b>2744</b>
<i>Mert Yılmaz Çakır ; Yahya Sirin</i>	
<b>LIFETIME MAXIMIZATION OF WIRELESS SENSOR NETWORKS IN FOREST ENVIRONMENT VIA TRANSMISSION POWER LEVEL OPTIMIZATION .....</b>	<b>2748</b>
<i>Yasin Aydınli ; Bülent Tavli</i>	
<b>3 DIMENSIONAL POINT CLOUD REGISTRATION USING GLOBAL OPTIMIZATION TECHNIQUES .....</b>	<b>2752</b>
<i>Tuba Kurban ; Erkan Besdok</i>	
<b>AN INVESTIGATION OF HYPERVISOR EFFECT ON VIRTUAL NETWORKS PERFORMANCE .....</b>	<b>2756</b>
<i>Yasemin Demiral ; Mehmet Demirci</i>	
<b>DESIGN OF APNEA DETECTION INTERFACE INCLUDING TIME DELAY NEURAL NETWORKS FOR PORTABLE RECORDING DEVICES WITH THREE CHANNELS .....</b>	<b>2760</b>
<i>Onur Peker ; Atila Yılmaz ; Ahmet Ugur Demir</i>	
<b>BUFFER DESIGN FOR MODULAR-QUALITY VIDEO PLAYOUT WITHOUT PREBUFFERING IN CELLULAR NETWORKS .....</b>	<b>2764</b>
<i>Mehmet Akif Yazıcı</i>	
<b>FLEXIBLE RADIO RESOURCE ALLOCATION FOR MACHINE TYPE COMMUNICATIONS IN 5G CELLULAR NETWORKS .....</b>	<b>2768</b>
<i>Zaid Haj Hussien ; Yalcin Sadi</i>	
<b>IMAGE RESTORATION FOR SPARSE APERTURE OPTICAL SYSTEMS .....</b>	<b>2772</b>
<i>Berk Iskender ; Figen S. Öktem</i>	
<b>EXAMINATION OF SUCCESS OF THE FINITE IMPULSE RESPONSE DIGITAL FILTER DESIGNED USING THE BAT ALGORITHM .....</b>	<b>2776</b>
<i>Ahmet Logoglu ; Turker Koza ; Serdar Kockanat ; Nurhan Karaboga</i>	

<b>FEATURE SELECTION USING BINARY CUCKOO SEARCH ALGORITHM .....</b>	<b>2780</b>
<i>Yasin Kaya</i>	
<b>PRODUCTION OF AIRBORNE LASER SCANNER SKILLED ADVANCED UNMANNED AIR VEHICLE AND THE POTENTIAL OF PRELIMINARY DATA .....</b>	<b>2784</b>
<i>Yazarlar Gizlenmistir</i>	
<b>A COMPARATIVE STUDY FOR TOPOLOGICAL MAP CONSTRUCTION METHODS FROM METRIC MAP (IN ENGLISH).....</b>	<b>2788</b>
<i>Burak Kaleci ; Osman Parlaktuna ; Ugur Gürel</i>	
<b>DETECTING CARDIAC ARRHYTHMIA BY USING TIME DIFFERENCES OF DOUBLE WAVELENGTH PPG PEAKS.....</b>	<b>2792</b>
<i>Ömer Yıldırım ; Temel Kayıkçıoğlu</i>	
<b>DETECTION OF INDUCTION MOTOR LOAD FLUCTUATION WITH SYMMETRICAL COMPONENTS.....</b>	<b>2796</b>
<i>Ferhat Çıra</i>	
<b>MILLIMETERWAVE IMAGING WITH COMPRESSED SENSING: EFFECTS OF MODULATION FREQUENCY AND DATA TYPE.....</b>	<b>2803</b>
<i>Esra Sengün Ermeydan ; Mustafa Mete ; A. Behzat Sahin ; Hakan Altan ; Ilyas Çankaya</i>	
<b>USAGE OF SEMANTIC METHODS IN SURVEILLANCE VIDEOS .....</b>	<b>2807</b>
<i>Karani Kardas</i>	
<b>THE EFFECT OF CONTENTION WINDOW SIZE OF THE IEEE 802.11 DCF FOR VANETS .....</b>	<b>2811</b>
<i>Muhammet Ali Karabulut ; A. F. M. Shahen Shah ; Haci Ilhan</i>	
<b>FILTER BASED ANALYSIS UNIT DESIGN FOR DATA ACQUISITION SYSTEMS .....</b>	<b>2815</b>
<i>Yazarlar Gizlenmistir</i>	
<b>DOMAIN ADAPTATION FOR CROSS-DATASET PERSON RE-IDENTIFICATION .....</b>	<b>2819</b>
<i>Anil Genç ; Hazim Kemal Ekenel</i>	
<b>A SPECTRUM SHARING PROTOCOL FOR FULL-DUPLEX COGNITIVE DF RELAY NETWORKS.....</b>	<b>2823</b>
<i>Hüseyin Onur Baktiroğlu ; Ümit Aygözü</i>	
<b>Author Index</b>	