

2019 International Artificial Intelligence and Data Processing Symposium (IDAP 2019)

**Malatya, Turkey
21 – 22 September 2019**



**IEEE Catalog Number: CFP19K37-POD
ISBN: 978-1-7281-2933-4**

**Copyright © 2019 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:	CFP19K37-POD
ISBN (Print-On-Demand):	978-1-7281-2933-4
ISBN (Online):	978-1-7281-2932-7

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
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

FOOD IMAGE CLASSIFICATION WITH DEEP FEATURES	1
<i>Abdulkadir Sengür ; Yaman Akbulut ; Ümit Budak</i>	
APPROXIMATE DATA DRIVEN PARALLEL SHAPE MATCHING FOR SOFT BODY PHYSICS SIMULATIONS	7
<i>Emircan Koc ; Adnan Özsoy</i>	
AN INTRUSION DETECTION SYSTEM USING APACHE LOG FILES	12
<i>Cemile Ince ; Zeki Omaç</i>	
SIMULTANEOUSLY REALIZATION OF IMAGE ENHANCEMENT TECHNIQUES ON REAL-TIME FPGA	18
<i>Muhammed Yildirim ; Ahmet Çinar</i>	
YAPAY ZEKA, AKILLI SEHIRLER VE KALKINMA	24
<i>Mehmet Burak Pektekin ; Asim Kaygusuz</i>	
ADAPTIVE GRADIENT DESCENT CONTROL OF STABLE, FIRST ORDER, TIME-DELAY DYNAMIC SYSTEMS ACCORDING TO TIME-VARYING FIR FILTER MODEL ASSUMPTION	28
<i>Nağihan Yağmur ; Baris Baykant Alagoz</i>	
FRACTIONAL ORDER MODEL IDENTIFICATION OF RECEPTOR-LIGAND COMPLEXES FORMATION BY EQUIVALENT ELECTRICAL CIRCUIT MODELING	33
<i>Abdullah Ates ; Baris Baykant Alagoz ; Aleksei Tepljakov ; Eduard Petlenkov ; Celaleddin Yeroglu ; Aleksei Kuznetsov ; Innokenti Sobolev</i>	
BÜYÜK VERİ ÜZERİNE PERSPEKTİF BİR BAKIS	38
<i>Doygun Demiroglu ; Resul Das ; Davut Hanbay</i>	
DEEP LEARNING BASED CLASSIFICATION USING ACADEMIC STUDIES IN DOC2VEC MODEL	47
<i>Yasar Safali ; Gözde Nergiz ; Erdiñç Avaroglu ; Emre Dogan</i>	
CLOUD BASED INDOOR NAVIGATION FOR ROS-ENABLED AUTOMATED GUIDED VEHICLES	52
<i>Fatih Okumus ; Adnan Fatih Kocamaz</i>	
DETECTION OF FAKE TWITTER ACCOUNTS WITH MULTIPLE CLASSIFIER AND DATA AUGMENTATION TECHNIQUE	56
<i>Mehmet Sevi ; İlhan Aydın</i>	
CLASSIFICATION OF TURKISH NEWS CONTENT BY DEEP LEARNING BASED LSTM USING FASTTEXT MODEL	62
<i>Gözde Nergiz ; Yasar Safali ; Erdiñç Avaroglu ; Selahaddin Erdogan</i>	
TURKISH TEXT CLASSIFICATION WITH MACHINE LEARNING AND TRANSFER LEARNING	68
<i>Murat Aydoğan ; Ali Karci</i>	
LOJİSTİK-SİNGER HARİTA TABANLI YENİ BİR KAOTİK SÜRÜ OPTİMİZASYON YÖNTEMİ	74
<i>Fahrettin Burak Demir ; Türker Tuncer ; Adnan Fatih Kocamaz</i>	
WART TREATMENT SELECTION WITH A DECISION TREE-BASED APPROACH	79
<i>Hüseyin Yanik ; Mustafa Cömert</i>	
CLIMATE CHANGE IMPACTS ON ELECTRICITY DEMAND IN TURKEY	85
<i>Mustafa Cömert ; Ali Yıldız</i>	
ON THE EFFECTS OF THE FREQUENCY FRAME ON DC MOTOR EXAMPLE: FRACTIONAL ORDER PI-PD CASE	90
<i>Uğur Demiroglu ; Bilal Senol ; Radek Matušu</i>	
AUTOMATIC THRESHOLDING METHOD DEVELOPED WITH ENTROPY FOR FABRIC DEFECT DETECTION	95
<i>Hüseyin Üzen ; Hüseyin Firat ; Ali Karci ; Davut Hanbay</i>	
OBJECT DETECTION ON FPGAS AND GPUS BY USING ACCELERATED DEEP LEARNING	99
<i>V. Yusuf Çambay ; Aysegül Uçar ; M. Ali Arserim</i>	
A NEW DEEP NEURAL NETWORK BASED DYNAMIC FUZZY COGNITIVE MAP WEIGHT UPDATING APPROACH	104
<i>Turan Goktug Altundogan ; Mehmet Karakose</i>	
INVESTIGATION OF PERFORMANCE OF HHO ALGORITHM IN SOLVING GLOBAL OPTIMIZATION PROBLEMS	110
<i>Erdal Eker ; Murat Kayri ; Serdar Ekinci</i>	

ARTIFICIAL ELECTRIC FIELD ALGORITHM FOR DETERMINING CONTROLLER PARAMETERS IN AVR SYSTEM	116
<i>Aysen Demirören ; Baran Hekimoglu ; Serdar Ekinici ; Serhat Kaya</i>	
FEATURE SELECTION FOR TEXT CLASSIFICATION USING MUTUAL INFORMATION	123
<i>Ilhami Sel ; Ali Karci ; Davut Hanbay</i>	
TRANSIENT STABILITY ANALYSIS OF POWER SYSTEMS WITH DISTRIBUTED GENERATION	127
<i>Özge Tuttokmagi ; Asim Kaygusuz</i>	
IOT ÇÖZÜMLERİNİN BENZETİMİNDE KULLANILAN YAZILIM ARAÇLARININ İNCELENMESİ	133
<i>Berna Polat ; Resul Das</i>	
COMPLETING RIGHT-CENSORED DATA IN TIME-SERIES MODELLING	139
<i>Ersin Yılmaz ; Çağatay Bal ; Zeynep Filiz Eren Dogu</i>	
YASSANMIŞ ÖNEMLİ YAZILIM HATALARININ İNCELENMESİ VE KRİTİK ÖNERİLER	143
<i>Ayşe Kahveci ; Resul Das</i>	
DETECTION OF PANTOGRAPH COLLECTOR STRIPS USING CORRELATION METHOD	149
<i>Gulsah Karaduman ; Mehmet Karaköse ; İlhan Aydın ; Erhan Akin</i>	
COMPARING BICLUSTERING ALGORITHMS USING DATA ENVELOPMENT ANALYSIS TO CHOOSE THE BEST PARAMETERS	154
<i>Ahmet Kocatürk ; Bülent Altunkaynak ; Ammar Homaida</i>	
PERFORMANCE EVALUATION OF A SPEECH PROTECTED ACTIVE NOISE CONTROL SYSTEM	168
<i>Özge Canlı ; Hatice Dogan</i>	
CAP-BASED EXAMINATION OF POPULAR NOSQL DATABASE TECHNOLOGIES IN STREAMING DATA PROCESSING	172
<i>Tugba Beril Doguç ; Ahmet Arif Aydın</i>	
SOLVING HIGH DIMENSIONAL PROBLEMS WITH ARTIFICIAL BEE COLONY ALGORITHM ON ARM BASED MOBILE PLATFORM	178
<i>Selcuk Aslan ; Alperen Aksoy ; Melih Günay</i>	
SEMANTIC IMAGE SEGMENTATION FOR AUTONOMOUS DRIVING USING FULLY CONVOLUTIONAL NETWORKS	184
<i>Çağrı Kaymak ; Aysegül Uçar</i>	
A SVM-PSO CLASSIFIER FOR ROBOT MOTION IN ENVIRONMENT WITH OBSTACLES	192
<i>Nursena Baygin ; Mehmet Baygin ; Mehmet Karakose</i>	
BEARING FAULT DIAGNOSIS IN TRACTION MOTOR USING THE FEATURES EXTRACTED FROM FILTERED SIGNALS	197
<i>Hasan Yetis ; Mehmet Karakose ; İlhan Aydın ; Erhan Akin</i>	
TRANSFER LEARNING BASED OBJECT DETECTION AND EFFECT OF MAJORITY VOTING ON CLASSIFICATION PERFORMANCE	201
<i>Ümit Budak ; Abdulkadir Sengür ; Ash Basak Dabak ; Musa Çibuk</i>	
N-GRAM AND TF-IDF FOR FEATURE EXTRACTION ON OPINION MINING OF TWEETS WITH SVM CLASSIFIER	205
<i>Jhonathan De Godoi Brandão ; Wesley Pacheco Calixto</i>	
USER2VEC: SOCIAL MEDIA USER REPRESENTATION BASED ON DISTRIBUTED DOCUMENT EMBEDDINGS	210
<i>İbrahim R. Hallac ; Semiha Makinist ; Betül Ay ; Galip Aydın</i>	
DESIGN AND IMPLEMENTATION OF AN EMBEDDED REAL-TIME SYSTEM FOR GUIDING VISUALLY IMPAIRED INDIVIDUALS	215
<i>Sonay Duman ; Abdullah Elewi ; Zeki Yetgin</i>	
VEINS BASED STUDIES FOR VEHICULAR AD HOC NETWORKS	220
<i>Mohammad Jan Haidari ; Zeki Yetgin</i>	
PERFORMANCE COMPARISON OF VARIOUS CLASSIFIER ALGORITHMS ON BIOACOUSTIC SOUND DATA USING PRINCIPAL COMPONENT ANALYSIS	227
<i>Merve Kesim Önal ; Engin Avcı ; İbrahim Türkoglu</i>	
IDENTIFICATION OF APRICOT VARIETIES USING LEAF CHARACTERISTICS AND KNN CLASSIFIER	233
<i>Yahya Altuntas ; Adnan Fatih Kocamaz ; Celaleddin Yeroglu</i>	
DETECTION OF COVERT TIMING CHANNELS WITH MACHINE LEARNING METHODS USING DIFFERENT WINDOW SIZES	239
<i>Ismail Karadogan ; Ali Karci</i>	

COMPARISON BETWEEN MACHINE LEARNING ALGORITHMS IN THE PREDICTING THE ONSET OF DIABETES	244
<i>Mahmood Abed ; Turgay Ibrikçi</i>	
DEEP LEARNING BASED SENTIMENT ANALYSIS AND TEXT SUMMARIZATION IN SOCIAL NETWORKS.....	249
<i>Emre Dogan ; Buket Kaya</i>	
EVALUATION OF SESSION-SUITABILITY OF PAPERS IN CONFERENCE PROGRAMS	255
<i>Esra Gündogan ; Mehmet Kaya</i>	
EXPLORING THE RELATIONSHIP BETWEEN ACADEMICIANS VIA REFERENCE PARSING.....	260
<i>Gizem Çay ; Ahmet Anil Müngen ; Emre Dogan ; Mehmet Kaya</i>	
A HYBRID RECOMMENDATION SYSTEM IN CO-AUTHORSHIP NETWORKS	264
<i>Serpil Aslan ; Mehmet Kaya</i>	
FEATURES AND CONNECTION BASED NETWORK ALIGNMENT METHOD	269
<i>Ahmet Anil Müngen ; Mehmet Kaya</i>	
TASK SCHEDULING ALGORITHMS AND RESOURCE ACCESS PROTOCOLS IN REAL TIME SYSTEMS	273
<i>Salih Palamut ; Tuğba Gönültaş ; Abdullah Elewi ; Erdinç Avaroglu</i>	
MULTIPLE CLASSIFICATION OF FLOWER IMAGES USING TRANSFER LEARNING	279
<i>Emine Cengil ; Ahmet Çınar</i>	
REQUIREMENT ANALYSIS FOR CYBERSECURITY SOLUTIONS IN INDUSTRY 4.0 PLATFORMS	285
<i>Ismail İlhan ; Mehmet Karaköse</i>	
PERFORMANCE COMPARISON OF TEXTURE CLASSIFIERS ON SMALL WINDOWS.....	292
<i>Ibrahim Cem Baykal</i>	
MULTIPLE OBJECT TRACKING WITH DYNAMIC FUZZY COGNITIVE MAPS USING DEEP LEARNING.....	298
<i>Turan Goktug Altundogan ; Mehmet Karakose</i>	
MODELLING ACADEMIC COLLABORATION NETWORK OF TURKEY AS GRAPH AND DOMINATING SET ANALYSIS	303
<i>Müberra Kaygusuz ; Kenan Ince</i>	
THE EYE-OUT-DEVICE MULTI-CAMERA EXPANSION FOR MOBILE ROBOT CONTROL	308
<i>Emrah Dönmez ; Adnan Fatih Kocamaz</i>	
COMBINATION OF DEEP FEATURES AND KNN ALGORITHM FOR CLASSIFICATION OF LEAF-BASED PLANT SPECIES	314
<i>Muammer Türkoglu ; Davut Hanbay</i>	
MATCHING VOLTAGE DROP AND POWER LOSSES WITH GIS IN MIDDLE VOLTAGE ELECTRIC DISTRIBUTION NETWORK IN DIYARBAKIR.....	319
<i>Hasan Beyhan ; Mustafa Yalçın ; Adnan Fatih Kocamaz</i>	
IMPROVING CONTROL OF SST USING TYPE-2 NEURO-FUZZY CONTROLLER WITH ELLIPTIC MEMBERSHIP FUNCTION.....	325
<i>Hakan Acikgoz ; Mustafa Sekkeli</i>	
DETERMINATION OF POTENTIAL FLOODING OF INEBOLU BASIN BY CN METHOD WITH A GIS-BASED SOFTWARE	331
<i>Samet Katmerlikaya ; Gülin Kurucak ; Ahmet Dabanli ; Adnan Fatih Kocamaz ; Oğün Ozan Sarica ; Ahmet Dogan ; Enis Baltaci</i>	
DEVELOPMENT OF A WIRELESS SENSOR NETWORK BASED WATER QUALITY MONITORING AND NOTIFICATION SYSTEM.....	337
<i>M. P. P. Sithole ; N. I. Nwulu ; E. M. Dogo</i>	
DEVELOPMENT OF A SMALL SCALED MICROCONTROLLER-BASED POULTRY EGG INCUBATION SYSTEM.....	346
<i>G. V. Kutsira ; N. I. Nwulu ; E. M. Dogo</i>	
DESIGN AND IMPLEMENTATION OF A WIRELESS PATIENT HEALTH MONITORING SYSTEM.....	353
<i>O. Manzombi ; E. M. Dogo ; N. I. Nwulu</i>	
AN IOT-BASED APPROACH TO REAL-TIME CONDITIONING AND CONTROL IN A SERVER ROOM.....	359
<i>Moses O. Onibonaje ; Pitshou N. Bokoro ; Nnamdi I. Nwulu ; Saheed L. Gbadamosi</i>	
IMPLEMENTATION OF DEMAND SIDE LOAD MANAGEMENT BY DOMESTIC LOAD SHEDDING ALGORITHM FOR CONVENTIONAL ELECTRICITY METERS	365
<i>Cemal Keles ; Yusuf Yigit</i>	
DISCRETE-TIME BACKSTEPPING ATTITUDE CONTROL OF A QUADROTOR UAV	369
<i>Fatih Adigüzel ; Tarik Veli Mumcu</i>	

YAZILIM TANIMLI AGLAR İÇİN OMNET++ PLATFORMUNDA OPENFLOW PROTOKOLÜNÜN BENZETİMİ	374
<i>Faruk Aksoy ; Resul Das</i>	
PROBABILISTIC RELATIONAL CONNECTIVITY ANALYSIS OF BIGRAM MODELS	379
<i>Dima Alnahas ; Baris Baykant Alagoz</i>	
WHITE BLOOD CELL CLASSIFICATION BASED ON SHAPE AND DEEP FEATURES	385
<i>Abdulkadir Sengür ; Yaman Akbulut ; Ümit Budak ; Zafer Cömert</i>	
EXTRACTIVE TEXT SUMMARIZATION VIA GRAPH ENTROPY ÇİZGE ENTROPI İLE ÇIKARICI METİN ÖZETLEME	389
<i>Cengiz Hark ; Taner Uçkan ; Ebubekir Seyyarer ; Ali Karci</i>	
ARM: AN INTERACTIVE WEB SOFTWARE FOR ASSOCIATION RULES MINING AND AN APPLICATION IN MEDICINE	394
<i>Ibrahim Perçin ; Fatma Hilal Yağın ; Emek Güldoğan ; Saim Yologlu</i>	
PREDICTION OF MELANOMA FROM DERMOSCOPIC IMAGES USING DEEP LEARNING-BASED ARTIFICIAL INTELLIGENCE TECHNIQUES	399
<i>Ali Kaplan ; Emek Güldoğan ; Cemil Çolak ; Ahmet K. Arslan</i>	
A DEVELOPED WEB-BASED SOFTWARE CAN EASILY FULFILL THE ASSUMPTIONS OF CORRELATION, CLASSIFICATION AND REGRESSION TASKS IN DATA PROCESSING	404
<i>Seyma Yasar ; A. Kadir Arslan ; Cemil Çolak ; Saim Yologlu</i>	
DEEP LEARNING BASED-CLASSIFICATION OF DEMENTIA IN MAGNETIC RESONANCE IMAGING SCANS	409
<i>Hasan Ucuşal ; Ahmet K. Arslan ; Cemil Çolak</i>	
OPEN SOURCE WEB BASED SOFTWARE FOR RANDOM ASSIGNMENT/ALLOCATION METHODS IN DATA PROCESSING	415
<i>A. Kadir Arslan ; Ipek Balıkcı Çiçek ; Cemil Çolak</i>	
AN OPEN SOURCED SOFTWARE FOR DATA TRANSFORMATION AND AN APPLICATION ON SIMULATED DATA	419
<i>A. Kadir Arslan ; Zeynep Tunç ; Cemil Çolak</i>	
ASSESSMENT OF ASSOCIATION RULES BASED ON CERTAINTY FACTOR: AN APPLICATION ON HEART DATA SET	425
<i>Kübra Elif Akbas ; Mehmet Kivrak ; A. Kadir Arslan ; Cemil Çolak</i>	
AN INTELLIGENT SYSTEM FOR THE CLASSIFICATION OF LUNG CANCER BASED ON DEEP LEARNING STRATEGY	430
<i>Ahmet Kadir Arslan ; Seyma Yasar ; Cemil Çolak</i>	
GENDER PREDICTION FROM IMAGES USING DEEP LEARNING TECHNIQUES	434
<i>Salma Fayaz Bhat ; Ab Waheed Lone ; Taniya Ashraf Dar</i>	
PREDICTION OF AIR QUALITY INDEX BY EXTREME LEARNING MACHINES	440
<i>Burhan Baran</i>	
DNA ENCODING WITH ENTROPY BASED NUMERICAL MAPPING TECHNIQUE FOR PHYLOGENETIC ANALYSIS	448
<i>Talha Burak Alakus ; Bihter Das ; Ibrahim Turkoglu</i>	
AN OVERVIEW OF QUALITY METRICS USED IN ESTIMATING SOFTWARE FAULTS	453
<i>Talha Burak Alakus ; Resul Das ; Ibrahim Turkoglu</i>	
ABOUT MEMBERSHIP FUNCTION SELECTION AT REACTIVE POWER IN ELECTRIC NETWORKS WITH DISTRIBUTED GENERATION	459
<i>H. B. Guliyev</i>	
REACTIVE POWER ADAPTIVE CONTROL SYSTEM IN NETWORKS WITH DISTRIBUTED GENERATION BASED ON FUZZY SET THEORY	464
<i>H. B. Guliyev</i>	
HETEROPOLAR CONTROLLED FUZZY SHUNT REACTOR FOR HIGH-VOLTAGE NETWORKS	469
<i>A. R. Babayeva</i>	
FARKLI SENSÖRLERLE YANICI GAZLARIN ÖLÇÜLMESİ VE DİNAMİK MODELLENMESİ	476
<i>Özge Kirçil ; Sinem Anmaz ; Büsra Mafratoğlu ; Hande Babaoglan ; Abdullah Ates</i>	
MACHINE LEARNING-BASED SILENCE DETECTION IN CALL CENTER TELEPHONE CONVERSATIONS	482
<i>Leonardo O. Theme ; Sükrü Ozan ; Erdem Akagündüz</i>	
ANALYSIS OF DETECTED SILENT SEGMENTS IN CALL CENTER RECORDINGS	486
<i>Sükrü Ozan ; Leonardo O. Theme</i>	
IMPROVING THE HOUGH TRANSFORM THROUGH THREE NEW MORPHOLOGICAL OPERATORS	490
<i>Ibrahim Cem Baykal</i>	

DEEP FEATURES AND EXTREME LEARNING MACHINES BASED APPAREL CLASSIFICATION	496
<i>Baris Gülbas ; Abdulkadir Sengür ; Emre Incel ; Yaman Akbulut</i>	
DISTURBANCE REJECTION FRACTIONAL ORDER PID CONTROLLER DESIGN IN V-DOMAIN BY PARTICLE SWARM OPTIMIZATION	500
<i>Sevilay Tufenkci ; Bilal Senol ; Baris Baykant Alagoz</i>	
GENETİK ALGORITMA İLE DÜŞÜK DUYARLILIGA SAHIP OPTIMAL FOPID DENETLEYİCİ TASARIMI	506
<i>Sevilay Tufenkci ; Bilal Senol ; Baris Baykant Alagoz</i>	
REAL-TIME TRAFFIC RULES INFRINGING DETERMINATION OVER THE VIDEO STREAM: WRONG WAY AND CLEARWAY VIOLATION DETECTION	512
<i>Ali Sentas ; Seda Kul ; Ahmet Sayar</i>	
FUZZY LOGIC CONTROLLER APPLICATION IN HYBRID SOLAR AND WIND ENERGY SYSTEM	516
<i>F. F. Mammadov</i>	
DEEP LEARNING AND AUDIO BASED EMOTION RECOGNITION	520
<i>Asli Demir ; Orhan Atila ; Abdulkadir Sengür</i>	
APPLICATION OF THE ARTIFICIAL INTELLIGENCE THEORY TO PROCESS PRODUCTION OF THE HIGHLY CLEANED ISOBUTANE AND ISOBUTYLENE FROM THE GASES	526
<i>Sevinj Guliyeva Nizami</i>	
DERİN ÖĞRENME İLE BÜYÜK VERİ KUMELERİNDEN SALDIRI TÜRLERİNİN SINIFLANDIRILMASI	531
<i>Hüseyin Ahmetoglu ; Resul Das</i>	
SLIDING MODE CONTROL OF THE HAPTIC-TELEOPERATION SYSTEM BASED ON A REAL AND VIRTUAL ROBOT	540
<i>Tayfun Abut ; Servet Soyguder</i>	
MEASURING IEEE 802.15.4 PROTOCOL PERFORMANCE OVER EMBEDDED CONTROL SYSTEMS	547
<i>Selcuk Ökdem ; Omar Aldabash</i>	
DETERMINATION OF FEED POINT BY SURROGATE MODEL BASED ON RADIAL BASIS FUNCTION FOR RECTANGULAR MICROSTRIP ANTENNAS	552
<i>Deniz Ustun ; Mustafa Tekbas ; Abdurrahim Toktas</i>	
SMARTSENTI: A TWITTER-BASED SENTIMENT ANALYSIS SYSTEM FOR THE SMART TOURISM IN TURKEY	555
<i>Mehmet Umut Salur ; Ilhan Aydın ; Shahed Alali Alghrsi</i>	
EEG CONTROLLED SEMI-AUTONOMOUS MOBILE VEHICLE DESIGN AND IMPLEMENTATION	560
<i>Hüseyin Tanzer Atay ; İnci Çilesiz ; Kenan Kaan Kurt</i>	
FEATURE SELECTION BY USING HEURISTIC METHODS FOR TEXT CLASSIFICATION	565
<i>Ilhami Sel ; Celalettin Yeroglu ; Davut Hanbay</i>	
HARRIS HAWKS OPTIMIZATION APPROACH FOR TUNING OF FOPID CONTROLLER IN DC-DC BUCK CONVERTER	571
<i>Serdar Ekinci ; Baran Hekimoglu ; Aysen Demiroren ; Serhat Kaya</i>	
AN EFFICIENT EMBEDDED SECURITY SYSTEM FOR REDUCE CAR ACCIDENT TO BUILD SAFER WORLD BASED ON IOT	580
<i>Nashwan Adnan Othman ; Ilhan Aydın ; Mehmet Karakose</i>	
A RECURSIVE MEAN FILTER FOR IMAGE DENOISING	585
<i>Ugur Erkan ; Serdar Enginoglu ; Dang N. H. Thanh</i>	
A THEORETICAL STUDY ON EVENT SPREADING PREDICTION BY PROBABILISTIC CONNECTIVITY ANALYSIS IN DISPERSIVE NETWORKS	590
<i>Dima Alnahas ; Baris Baykant Alagoz</i>	
AN ADAPTIVE NEURAL FUZZY CONTROL SCHEME FOR ROTATIONAL MANEUVERING AND VIBRATION SUPPRESSION OF A FLEXIBLE SATELLITE SYSTEM	596
<i>Muhammad Umair Khan ; Tolgay Kara</i>	
DIAGNOSIS OF LUMBAR SPONDYLOLISTHESIS VIA CONVOLUTIONAL NEURAL NETWORKS	602
<i>Fatih Varçin ; Hasan Erbay ; Eyüp Çetin ; İhsan Çetin ; Turgut Kültür</i>	
NORMAL AND ACUTE TYMPANIC MEMBRANE DIAGNOSIS BASED ON GRAY LEVEL CO-OCCURRENCE MATRIX AND ARTIFICIAL NEURAL NETWORKS	606
<i>Erdal Basaran ; Abdülkadir Sengür ; Zafer Cömert ; Ümit Budak ; Yüksel Çelik ; Subha Velappan</i>	
SENTIMENT ANALYSIS BASED ON GATED RECURRENT UNIT	612
<i>Yunus Santur</i>	

DEVELOPMENT OF CNN ARCHITECTURE FOR HONEY BEES DISEASE CONDITION.....	617
<i>Hüseyin Üzen ; Celaleddin Yeroglu ; Davut Hanbay</i>	
PID CONTROLLER DESIGN BASED ON SINE COSINE ALGORITHM FOR MAGNETIC BALL SUSPENSION SYSTEM.....	622
<i>Cihat Özyaydin ; Hatice Lale Zeynelgil ; Serdar Ekinci ; Baran Hekimoglu</i>	
A SMART SCHOOL BY USING AN EMBEDDED DEEP LEARNING APPROACH FOR PREVENTING FAKE ATTENDANCE.....	629
<i>Nashwan Adnan Othman ; Ilhan Aydin</i>	
ÇOK AMAÇLI METAŞEZGİSEL OPTİMİZASYON ALGORİTMALARININ PERFORMANS KARSILASTIRMASI	635
<i>Eyüp Eröz ; Erkan Tanyildizi</i>	
APACHE HIVE PERFORMANCE IMPROVEMENT TECHNIQUES FOR RELATIONAL DATA.....	646
<i>Melih Gunay ; M. Numan Ince ; Alper Cetinkaya</i>	
THE IMPORTANCE OF MULTIDISCIPLINARY IN DATA SCIENCE: APPLICATION OF THE METHOD IN HEALTH SECTOR TO TELECOMMUNICATION SECTOR.....	652
<i>Kenan Kaan Kurt ; Hüseyin Tanzer Atay ; Mustafa Alpkan Çiçek ; Saffet Baris Karaca ; Serkan Türkeli</i>	
OPTIMUM FUEL COST IN LOAD FLOW ANALYSIS OF SMART GRID BY USING ARTIFICIAL BEE COLONY ALGORITHM.....	656
<i>Mehmet Çınar ; Asim Kaygusuz</i>	
MOBILE SINK TRAJECTORY DETERMINATION FOR WIRELESS SENSOR NETWORKS USING DEPENDENT NONPARAMETRIC TREES	661
<i>Sercan Yalçın ; Ebubekir Erdem</i>	
APPLICATIONS AND COMPARISONS OF OPTIMIZATION ALGORITHMS USED IN CONVOLUTIONAL NEURAL NETWORKS	666
<i>Ebubekir Seyyarer ; Taner Uçkan ; Cengiz Hark ; Faruk Ayata ; Mevlüt Inan ; Ali Karci</i>	
Author Index	