

ÖZGEÇMİŞ



1. **Adı Soyadı:** Osman Nuri Uçan

2. **Doğum tarihi** :01.01.1960

3. **Ünvanı** :Profesör

4. **Öğrenim Durumu:** Doktora

Derece	Alan	Üniversite	Yıl
Lisans	Elektronik ve Haberleşme	İ.T.Ü	1980-1985
Lisansüstü	Elektronik ve Haberleşme	İ.T.Ü	1985-1988
Doktora	Elektronik ve Haberleşme	İ.T.Ü	1988-1995

5. Akademik Ünvanlar:

GÖREV DÖNEMİ	ÜN VAN	ÜNİVERSİTE	BÖLÜM
1986-1996	Araş.Gör.	İ.T.Ü.	Elektronik ve Haberleşme
1997-1999	Yard. Doç. Dr.	İ.Ü.	Müh. Fakültesi, Elektronik Müh. Böl.
1998-2004	Doç. Dr.	İ.Ü.	Müh. Fakültesi, Elektronik Müh. Böl.
2004-2006	Prof.Dr.	İ.Ü.	Mühendislik Fakültesi, Dekan Yardımcısı
2006, 2007	Misafir Öğretim Üyesi	Orleans University-Fransa	Mühendislik Fakültesi
2008	Misafir Öğretim Üyesi	Budapest University-Macaristan	Mühendislik Fakültesi

2011-2012	Dekan Vekili	İ.A.Ü.	Mühendislik ve Mimarlık
2012-2013	Dekan	İ.A.Ü.	Mühendislik ve Mimarlık
2013-2016	Kurucu Dekan	İ.A.Ü.	Mühendislik Fakültesi Elektrik-Elektronik Müh. Bölüm Başkanı
2015-2016	Prof.Dr.	İ.A.Ü.	Mühendislik Fakültesi, Elektrik-Elektronik Müh. Bölümü Öğretim Üyesi
2016-	Prof. Dr.	A.Ü.	Mühendislik ve Doğa Fakültesi Elektronik Müh. Bölüm Başkanı
2016-2017	Prof. Dr.	A.Ü.	Mühendislik ve Doğa Bilimleri Fakültesi Dekan Vekili
2017-2020	Prof. Dr.	A.Ü.	Mühendislik ve Doğa Bilimleri Fakültesi Dekanı
2021-	Prof. Dr.	A.Ü.	Uygulama Bilimler Fakültesi Dekan Vekili

6. Yönetilen Yüksek Lisans ve Doktora

Tezleri 6.1 Yüksek Lisans Tezleri (108 adet)

Tez Öğrencisi	Yılı	Tez Konusu
ZAINAB ABDALJABAR	2022	Designing a smart system to detect the intrusion in IoT
BANAN KHALEEL İBRAHİM İBRAHİM	2022	Controlling a non-linear servo hydraulic system using pid controller with optimal techniques
AYOUB HAFEDH MUKHLIF	2022	Using convolutional neural networks to improve hyperparameter values for learning phrase categorization
MOHANAD SALAH JASIM ALAZZAWI	2022	Facial detection using image processing techniques and deep neural network
HASSAN ALI HINDI AL-AMERI	2022	Compact MIMO Antenna Array for 5G Applications based Novel Modified-Koch Fractal Geometry
AREEG AL- SHAIKHLI	2022	Reconfigurable miniaturized microstrip antenna based metamaterials for portable wireless biomedical applications
AHMED HUSSEIN İBRAHEM ALAJDAH	2022	A new software defined network (SDN) in IoTs based deep learning techniques
NOOR HASAN MOHSIN SHUAİBT	2022	Using artificial intelligence methods to improve the prediction rate and accuracy
ABDULMUNEM YASEEN KHUDHAİR KHUDHAİR	2022	New smart grid framework based optimized ai method: Case study attack detection
RAWAN NAZAR AHMED AHMED	2022	Electromagnetic absorber based on metamaterial
ABDULLAH JAMEEL MAHDI AL-SAMMARRAİE	2022	Drones swarm free space optical communication with pointing error
ARSHAD MOHAMMED KHALEEL KHALEEL	2022	Internet of thing (IoT) cyber security with machine learning
AHMED ABDULGHANI	2022	Employing machine learning techniques and fuzzy membership for detecting fraud transactions in credit card
MARWA KHALİFA	2022	Intelligent security system for mobile adhoc networks based on machine learning
OMER JAMAL KAMIL KAMIL	2022	Smart detection system of vehicles license plate by using segmentation and enhancement image technique
KHADIJA SHELFİT	2022	Computer denial of service attacks classification and prevention system optimization
HİND AYAD MAJEED ALKAKJEA	2022	An efficient algorithm for energy consumption and load balancing in cloud computing network
REDA RAMADAN ABDULSALAM	2022	Transformation of traditional healthcare system to

		advance AI-based e-healthcare system
AHMED HUSSEIN IBRAHEM ALAJDAH	2022	A new software defined network (SDN) in IoTs based deep learning techniques
KARAM MOHAMMED DAWOOD DAWOD	2022	A new method based CNN combined with genetic algorithm and support vector machine for COVID-19 detection by analyzing X-ray images
NAWAR ABDULRIDHA YAHYA AL-KHAFAJI	2021	Building e-government solution system with interoperable GIS solutions using blockchain driven nhibernate mapper
RAED HAMEED GBURI	2021	Detection of malicious URLs using machine learning
AMER BENAROUS	2021	Data management system in IoTs using deep learning technique
ALI JASIM KHALEEFAH AL-JABERI	2021	Detect Phishing Website by using machine Learning
ALI MOHSIN LATEEF AL-KHAFAJI	2021	ARTIFICIAL NEURAL NETWORKS FOR ELECTROENCEPHALOGRAM CLASSIFICATION
MOHAMMED WESSAM HUSSEIN AL-SHAMMARI	2021	Implementation of an Energy Efficient Routing Protocol for Wireless Sensor Network
AHMED JAMAL AZEEZ ALYOUSUF	2021	Improvement of data transmission in fiber optical systems using VCSEL based erbium doped fiber amplifier (EDFA)
MOHAMMED HASAN HADI AL MAAWI	2021	Cybersecurity breaches and the role of ethical hackers in securing the online system of the organisation
FATĪMAH YASEEN HASHĪM AL-ZUBAĪDĪ	2021	Detect malware url using naive bayes algorithm
HASAN M.HUSSEIN M.ALI NASSRULLAH	2020	Comparison of various algorithm for intrusion detection in data mining
HATİCE AKKAYA	2020	Üniversitelerde kurumsal web sitelerinin tasarım ve kullanılabilirlik analizleri
OMAR KHUDHAIR EKHLAYEF EKHLAYEF	2020	Intrusion detection and classification in internet of things networks using machine learning
KHALID FARHAN MOHAMMED MOHAMMED	2020	Highway traffic classification using data mining in machine learning
JUHAINA THAKIR MAHMOOD	2020	Predicting power consumption using artificial neural networks algorithms
YOUNUS TAHREER YOUNUS YOUNUS	2020	Digital image cryptogrphy using chaotic logistic map
BAQAR ASSAM HATAF ALQWEZI	2020	Methods viable for anomaly detection of application-levelnetwork
QUSAY MUAAD ALI	2020	Improving the limitations in the capacity of fiber optics using modified nonlinear fourier transform
LAYTH MOHAMMED ABBAS AL-MASHHADANI	2020	Performance enhancement of palm recognition system by robust machine learning approaches

SAFA AKRAM YOUNIS YOUNIS	2020	Hepatitis C virus prediction using krill herd trained artificial neural network
HUSAM ADEL ALI ALSHUWAILI	2020	Study and evaluate a mechanism that is able to highlight the legal documents
ZĪNAH ABDULLAH AHMED	2020	The ability of neural networks to solve biomedical image segmentation task
FUAT GENÇ	2020	Sezgisel yöntemlerle market sepet analizi <i>Market basket analysis with heuristic methods</i>
AHMED ESSAA ABED AL-OWAIDI	2020	Project management and security of electronic platforms for the software-defined radio
HAYDER ABDULKAREEM QADER IBADI	2020	Handle an emergency in the traffic light using artificial intelligence
LUMA KHALID LUHAIBI	2020	Design and implement a big data processing platform suitable for smart grids data
KHALID JAMAL MAALAGH	2020	Real-time prediction the rate of penetration using machine learning
ADNAN ABDULLAH ATIYAH	2020	Development of a voice filter and enhancement method based on deep learning
MOHANAD MOHAMMED HAMAD ALSABAawi	2020	Efficient construction cost estimation software using convolutional neural network and particle swarm optimization algorithm (PSO)
HUDA ABDULWAHID ABBAS	2020	The possibility of using machine learning to extract the user actions from the mobile devices data
ALĪ EMAD MOHSĪN ALBREEJ	2020	The automation of bug assignment using machine learning algorithms
YASEEN SAADI ABBAS ABBAS	2020	Automatic generation control using deep reinforcement learning
OMAR AHMED	2020	Distributed denial of service (DDOS) detection in IoT sensors by using deep learning technique
ALI KHAIRI AHMED ALTOOHAFI	2020	Channel estimation for mimo-ofdm communication system based on deep neural networks
ASHJAN ADNAN AL-MOHAMMED	2020	Introduce a distributed complex event processing architecture for network monitoring
ABDULLAH QASSIM ALI	2020	Automatic analysis and detection of malware behavior using machine learning for computer device
HAMID FALAH DHEYAB	2020	Implementation a various types of machine learning approaches for biomedical datasets based on sickle cell disorder
ALI ADNAN AHMED AHMED	2020	Sentiment analysis for cryptocurrency prices prediction
TAHA ALI KHALEEL AL-AZAOOI	2020	Data security and authentication over computer

		communication networks and the internet
OMAR MOHAMMED YOUNUS YOUNUS	2020	Signing digital documents using private keys extracted from fingerprint templates
OLAIA MOSBAH A BOURTEMA	2019	Analysing the altitude variation effects on optical channel performance
ALİ İHSAN ÖZ	2019	Kullanıcı deneyim tasarım veri analiz sistemi
AHMED AYAN OBED	2019	Automatic turbine speed control using integer and fractional order PID controller based on genetic algorithm
ALİ SAAD HUSSEIN AL-NASER	2019	Pattern-based behavioral biometric authentication using artificial neural networks
MOHAMMED THAKIR MAHMOOD	2019	An analysis of accessibility in learning management system in the context of higher education institution
NAAMA METHAB ATHAB	2019	Intelligent system for predicting behaviour of electrical energy consumption
OMER MUNEAM MUSHREF		Effective integration of data mining techniques with business intelligence using web mining
RAND SAFI ABDULLAH	2019	Multi verse optimizer algorithm for optimal placement and size of distributed generation in radial distribution system
ABDULRAHMAN MOHAMED ABDLRAHMAN ALMAAWI	2019	Simulation of wireless sensor network based communication systems
ALI MAJEED MOHAMMED ALYASIRI	2019	Passive detection of islanding events in microgrids using machine learning
AHMED RASHID IBRAHIM ALABD	2019	Medical Video enhancement
HAITAM AHMED YASEEN	2019	Integration of the quality of service (QOS) in networked cloud computing system
MOHAMMED THAKIR MAHMOOD	2019	Design and implementation of WEB based for intermedia online shop by using MVC Laravel framework
DOOAA ALI JUMAAH ZIRJAWI	2019	An indoor positioning system using ultrasound waves
GHAIDO NASSR NAFES	2019	Adaptive Video transmission over communication networks
SAADALDEEN RASHID AHMED AHMED	2019	Brest cancer detection and image evaluation augmented deep convolutional neural network
ALI TARIQ KALIL	2018	Simulation system for security sensing services based on internet of things
ALLA FIKRAT MAJEED AL-WINDAWI	2018	Prediction of epileptic seizures with the use of biomedical sensors and Internet of things
BARAASAAD ABDULHAKEEM	2018	Low cost high speed data acquisition board for laboratory laser system
MUSTAFA GHAZI FAHAD ALLAZAWI	2018	Steady the distortion of the transmitting data due to the spectral shift effect of semiconductor laser with increasing of frequency in optical communication systems

ALAA FIRAS JASIM JASIM	2018	An energy efficient hierarchical clustering algorithm for wireless sensor networks using software defined networking solution
A. MOHAMED M. ABURAS	2018	Implementation of Different Clustering Algorithms
ZAHRAA MUSTAFA ZAIDAN	2018	Computer Communication Network Reliability: Evaluation of two-terminal reliability
MURTADHA MOHAMMED ALİ ALKADHMİ	2018	Implementing Pulse Position Modulation Using Field-Programmable Gate Array
ABDULGADER H. ABDULGADER ALSHARIF	2018	Optimization of Electrical Charging Station Capacity
ISAM KAREEM THAJEEL THAJEEL	2017	Improving IDS alerts to improve the quality of the network security by using data mining technique
ALİ MAJİD NOOR	2017	PV Penetration Effect For Regulating Voltage Using Reactive Power
GÖKHAN EŞGİ	2016	RF iletişimli mobil robot kolu
GÖKHAN ORAL	2015	İki eksenli güneş izleme panelinin kontrolü
TEMEL SÖNMEZOCAK	2015	Aydınlatma led kaynaklarının enerji verimliliğinin incelenmesi
NOOR AHMED	2013	Kernel based adaptive channel equalization
YASHAR M. JWMAH	2010	Evaluation of telemedical electrocardiograph signals using artificial neural network
EMEL DEMİRYAKAN	2010	Düşük yoğunluklu parite kontrol kodları
GÜLDEM KÜÇÜK	2010	Beyin magnetik rezonans görüntülerinin segmentasyonu
DİNÇER YARIMÇAM	2009	Ses sıkıştırma tekniklerinin başarımlarının analizi
ALİ ÜLGEN	2008	Sayısal mammografi görüntülerinin iyileştirilmesi
EVREN KORALTÜRK	2008	Güç iletim hatlarında ortogonal frekans bölmeleme çoğullama ile başarımlarının analizi
VOLKAN ÖZDURAN	2008	Birleşik şifreleme ve turbo kodlama sistemleri
ONUR MERAL	2008	Doğrusal öngörülme kodlama ve adaptif algoritma tabanlı konuşmacı tanıma
ULAŞ ÇELENK	2007	GSM sistemlerde lokasyon tespiti
SERDAR KARGIN	2007	Yapay sinir ağları ile beyin tümörü tomografi görüntülerinin sınıflandırılması
YÜCEL TÜRKER	2006	LMDS'in (yerel çok noktalı dağıtım sistemi) İstanbul'daki başarımlarının incelenmesi
OLCAY AKBULUT	2005	Bilgisayar ağ yapılarında en iyileme teknikleri
YEŞİM HEKİM	2005	Düşük yoğunluklu parite kontrol kodlarının hata başarımlarının analizi
HANDE BARGU	2004	Hücreli yapay sinir ağ-markov rasgele alan (HYSA-MRA) yöntemi ve yerbilimlerine

		uygulamaları
NİYZAİ KILIÇ	2003	Biyomedikal işaretlerin Markov rastgele alanları kullanılarak işlenmesi
ABDURRAHİM AKGÜNDOĞDU	2003	Bulanık-yapay sinir ağları ile biyomedikal görüntü işlenmesi
ÖMER ERKAN	2003	Kısmi yanıtli sönümlenmeli kanallarda uzay-zaman kodlamalı sistemlerin hata başarımı
ÖZGÜR SAVUR	2002	Sanal özel ağlarda güvenlik
GÜNAY KURTULDU	2002	Hücrel sinir ağları (CNN) modelleri
NİYZAİ ODABAŞIOĞLU	2002	Sürekli faz modülasyonlu kaynak/ kanal sistemlerin sönümlenmeli ortamlarda hata başarımı
MUSTAFA TOLUNAY	2002	Sürekli faz modülasyonu haberleşme sistemlerinin hata başarımı
MAHMUT ŞAMİL SAĞIROĞLU	2001	Rastgele markov alanları ve hücrel sinir ağları ile görüntü işleme
ERDEM BİLGİLİ	1999	Yapay sinir ağları ile bitkilerin şekillerinin sınıflandırılması (yapraktan bitki tanıma)

6.2 Doktora Tezleri (30)

Tez Öğrencisi	Yılı	Tez Adı
ABDULLAH JAMEEL MAHDI AL-SAMMARRAIE	2022	Drones swarm free space optical communication with pointing error
PEREN JERFİ CANATALAY	2022	Derin öğrenme yöntemleri kullanılarak meme kanseri teşhisi
HAMID RADAM HUSSEIN OBAIDI	2020	Unified real time object detection using convolutional neural network
AHMED M. ABDALLA MOHAMED	2020	Investigation of emotional state using machine learning techniques based on complexity and spectral features of electroencephalogram
EMAD ALI ALMABSOUT	2020	A hybrid local search-genetic algorithm for placement of dg units and shunt capacitors in radial distribution system
ABDULLAHI ABDO IBRAHİM	2019	Designing insistence-aware medium access control protocol and energy conscious routing protocol in a quality-of-service guaranteed wireless body area network
LAYTH KAMIL ADDAY AL MAJMAIE	2019	Fingerprint pattern recognition system based on modify multi-connect architecture (MMCA)
MAATHER ABDULRAHMAN İBRAHİM ALSHABI	2019	Unit commitment problem solved by hybrid swarm algorithms
HALA NAFIE FATHEE	2019	Efficient unconstrained recognition system based on CCT-LIKE mask filter bank
BASSAM SABRI	2019	A novel approach for ensuring location privacy using sentiment analysis and analysis for health-care and its effects on human health

MOHAMMED İBRAHİM AHMED AL-MASHHADANİ	2019	Segmentation and classification of demoscopic images for detection of melanoma cancer in early stage using image processing techniques
SHAYMAA QAYDAR ABDULJABBAR ALHAYATI	2018	Energy Efficient Clustering head selection, routing and attacker node detection in wireless sensor network using GA-ANFIS and weighted trust evaluation
ABDULBASIT KADHİM SHAKUR ALAZZAWI	2018	Advanced Face Recognition using Novel Technique based on Linear Regression Slope
AHMED KHUDHAİR ABBAS AL-ABADİ	2018	Analysing big data to predict personal information and properties for twitter users
WAMIDH JALİL MAZHER	2018	Drone swarm configuration for high-resolution surveillance with long code onboard free-space optical communication
HADEEL TARIQ İBRAHİM	2018	Heuristic optimization approaches for feature selection in biomedical datasets
ONUR YAZGAN	2013	Elektrik talebi ve elektrik piyasası fiyatlarının kısa dönemde tahmin edilmesi
OLCAY AKBULUT KURUŞ	2011	Hermitian transform tabanlı yöntemlerle sayısal işaretlerin değerlendirilmesi
PELİN GÖRGEL	2011	Görüntü işleme teknikleri kullanılarak, 2-boyutlu mamografik verilerde kanserli bölge tanısı
AZİZ YILMAZ	2010	OFDM tabanlı haberleşme kanallarında LDPC kodlama
HÜSEYİN KURTULUŞ ÖZCAN	2009	Katı atık düzenli depolama gazlarının genetik algoritmalarla modellenmesi
ABDURRAHİM AKGÜNDOĞDU	2009	Trabeküler kemik yapılarının yapay zeka yöntemleri ile modellenmesi
MÜMTAZ YILMAZ	2009	Analysis and design of synchronous/asynchronous cooperative communication systems
MURAT CEYLAN	2009	Bilgisayar tomografili akciğer görüntülerinin değerlendirilmesinde kompleks değerli yeni bir akıllı sistem tasarımı
NİYAZİ KILIÇ	2008	Bilgisayarlı tomografi görüntülerinde üç boyutlu şablonlar kullanılarak kolonik polip tespiti
ÖMER FATİH SAYAN	2008	Duygusal zekâ modeli oluşturulması
TUGAY AKBAŞ	2007	Geometrik inşa kodlarının üretimi ve başarımı
HASAN DEMİR	2007	Ağırlıklı dalgacık ağları ve uygulamaları
NİYAZİ ODABAŞIOĞLU	2006	Sürekli faz modülasyonunun çok düzeyli turbo kodlanması
GÖKMEN ALTAY	2005	İteratif ayrıştırılabilir blok kodlar
ONUR OSMAN	2004	Turbo kodlama tekniklerinin başarımı
SELMA ARICAN	2003	Sayısal haberleşme sistemlerinde turbo kodlama tekniği
ATİLLA ÖZMEN	2001	Hücre sel yapay sinir ağları ve görüntü işleme uygulamaları

ERKAN DANACI		Selçuk Üniversitesi, FBE (2. DANIŞMAN)
ABDULLAH BAL		Yıldız Teknik Üniversitesi, FBE (2. DANIŞMAN)
MARTIN ZIARATI		De-Montfort Üniversitesi, Leicester-Bedford İngiltere (2. DANIŞMAN)
OĞUZ BAYAT		Northeastern Üniversitesi, Massachusetts, ABD (2. DANIŞMAN)

7.Yayınlar

7.1 Uluslararası hakemli dergilerde yayımlanan makaleler (129 adet)

1. **Osman N. Ucan**, Umit Aygolu, Erdal Panayirci, “Performance and Jitter Analysis of Quadrature Partial Response/Trellis Coded Modulation Signals in the Presence of Intersymbol Interference and Colored Noise”,IEEE JOURNAL ON SELECTED AREA IN COMMUNICATIONS, Vol.10, No.8, pp. 1264-1270, October 1992. **(SCI-Expanded)**
2. Erdal Panayirci, Umit Aygolu, **Osman N. Ucan**,“ Error Performance Analysis of Quadrature Partial Response-Trellis Coded Modulation (QPR-TCM) in Fading Mobile Satellite Channels”, IEEE TRANSACTIONS ON COMMUNICATIONS Vol.43, No.2/3/4, pp. 1653 1662, Feb/Mar/April 1995. **(SCI-Expanded)**
3. **Osman N. Ucan**, “Jitter and Error Performance Analysis of Trellis Coded M-PSK over Partial Response-Fading Channel”, ELECTRONIC LETTERS, Vol.32, No.13, pp. 1164-1166, June1996. **(SCI-Expanded)**
4. Serhat Ozekes, Onur Osman, **Osman N Ucan** , “Nodule Detection in a Lung Region that’s Segmented with Using Genetic Cellular Neural Networks and 3D Template Matching with Fuzzy Rule Based Thresholding “KOREAN J RADIOLOGY 9(1), February 2008. **(SCI-Expanded)**.
5. **Osman N. Ucan**, “Trellis Coded Quantization /Modulation over Mobile Satellite Channel with Imperfect Phase Reference”, INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS, 16, pp.169-175, 1998. **(SCI-Expanded)**
6. **Osman N. Ucan**, Serhat Seker, Selcuk Paker, “Jitter Performance of Neural Network Equivalent MPSK Schemes Over Microwave Channels”, INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, Vol. 11, pp. 169-178 May-June 1998. **(SCI-Expanded)**
7. **Osman N. Ucan**, Murat Uysal, Selcuk Paker, “Performance of Combined Trellis Coded Quantization /Modulation over Wireless Local Loop Environment”INTERNATIONAL JOURNAL OF COMMUNICATIONS, 13, pp.207-218, May 2000. **(SCI-Expanded)**
8. **Osman N. Ucan**, Bülent Sen, A.Muhittin Albora, Atilla Ozmen, “A New Gravity Anomaly Separation Approach: Differential Markov Random Field (DMRF)”, ELECTRO-GEOPHYSICS, <http://link.springer.de/link/service/journals/10069/bibs/0005001/00050001.htm>

9. **Osman N. Ucan**, Serhat Seker,A. Muhittin Albora ,Atilla Ozmen, “Separation of magnetic fields in geophysical studies using 2-D multi-resolution Wavelet analysis approach”, JOURNAL OF THE BALKAN GEOPHYSICAL SOCIETY, Vol. 3, No. 3, pp.53-58, 2000.

10. Hakan A. Cirpan, **Osman N. Ucan**, “Blind equalization of quadrature partial response trellis coded modulated signals in Rician fading”, INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS, Vol. 19, pp. 159-168, March-April, 2001. **(SCI-Expanded)**

11. **Osman N. Ucan**, A. Muhittin Albora, “Evaluation of Akdag Iron Ore Reserves using Differential Markov Random Field (DMRF),” JOURNAL OF THE BALKAN GEOPHYSICAL SOCIETY, pp.101-110, Vol.4, No.4, Nov. 2001.

12. **Osman N. Ucan**, Hakan A. Cirpan, “Trellis Coded Quantization/Modulation over Rician Fading Channel”, INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS, Vol.6, No.3, pp. 263-269, 2001.

13. **Osman N. Ucan**, Erdem Bilgili, M. Albora, “Magnetic anomaly separation using Genetic Cellular Neural Networks”, JOURNAL OF THE BALKAN GEOPHYSICAL SOCIETY, pp.65-70, Vol.5, No.3, August, 2002.

14. **Osman N. Ucan**, A. Muhittin Albora, Z. Mümtaz Hisarlı, “Comments on the Gravity and Magnetic Anomalies of Saros Bay using Wavelet approach”, MARINE GEOPHYSICS, Vol.22, pp. 251-264,2001. **(SCI-Expanded)**

15. A.Muhittin Albora, **Osman N. Ucan**, Atilla Ozmen, Tulay Ozkan, “Separation of Bouguer anomaly map using cellular neural network”, JOURNAL OF APPLIED GEOPHYSICS, 46, pp.129-142, 2001. **(SCI-Expanded)**

16. Osman N. Ucan, Mustafa Istanbulu, Niyazi Kilic,Ahmet Kala, “Authentication of Ottoman art calligraphers”, INTERNATIONAL JOURNAL OF ELECTRONICS; MECHANICAL and MECHATRONICS ENGINEERING Vol.2 Num.2 pp.(215-224),2012.

17. A.Muhittin Albora, Atilla Ozmen, **Osman N. Ucan**, “Residual Separation of magnetic fields using a Cellular Neural Network Approach”, PURE APPLIED GEOPHYSICS, 158, pp. 1797-1818, Sept., 2001. **(SCI-Expanded)**

18. **Osman N. Ucan**, Onur Osman, S. Paker, “Turbo coded signals over wireless local loop environment”, INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, AEU, Vol. 56, No.3,pp.163-168, 2002. **(SCI-Expanded)**

19. **Osman N. Ucan**, A. Muhittin Albora, Atilla Ozmen, “Evaluation of tectonic structure of Gelibolu (Turkey) using steerable filters”, JOURNAL OF THE BALKAN GEOPHYSICAL SOCIETY, Vol. 6, No. 4, pp. 221 – 234, 2003.

20. Gose E, Pastaci H, **Osman N. Ucan**, et al., Performance of transmit diversity-turbo trellis coded modulation (TD-TTCM) over genetically estimated WSSUS MIMO channels”, FREQUENZ Volume: 58 Issue: 11-12 Pages: 249-255, NOV-DEC2004

21. **Osman N. Ucan**, “Trellis coded quantization/trellis coded continuous phase modulation over Rician channel with imperfect phase reference”, EUROPEAN

TRANSACTIONS ON TELECOMMUNICATIONS Volume: 15 Issue: 5 Pages: 437-446,
SEP-OCT2004 (SCI-Expanded)

22 .A.Muhittin Albora, Z.M. Hisarli, **Osman N. Ucan**, “Application of wavelet transform to magnetic data due to ruins of Hittite civilization of Turkey”, PURE AND APPLIED GEOPHYSICS, Volume: 161 Issue: 4 Pages: 907-930, MAR 2004 (SCI-Expanded)

23. **Osman N. Ucan**, Onur Osman, “Concatenation of space-time block codes and turbo trellis coded modulation (ST-TTCM) over Rician fading channel with imperfect phase reference”, INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, 17,pp. 347-361, 2004. (SCI-Expanded)

24.**Osman N. Ucan**, Onur Osman, “Blind Equalization of space-time-turbo trellis coded/continuous phase modulation over Rician fading channels” , EUROPEAN TRANSACTION ON TELECOMMUNICATIONS. Volume 15, Pages: 447 – 458, SET-OCT2004. (SCI-Expanded)

25.Ulku Sahin, **Osman N. Ucan**, Burcu Soyhan, Cuma Bayat “Modeling of CO Distribution in Istanbul Using Artificial Neural Network” FRESNIUS ENVIRONMENTAL BULLETIN, Volume 13, No.9, pp 839-845, 2004. (SCI-Expanded)

26.Ulku Sahin, **Osman N. Ucan**, Cuma Bayat, Namık Öztörün “Modeling of SO₂ Distribution in Istanbul Using Artificial Neural Network” ENVIRONMENTAL MODELLING AND ASSESSMENT.,Volume:10, Issue:2, Pages:135-142,JUN2005.(SCI-Expanded)

27.Aydogan D, Elmas A, Albora AM, **Osman N. Ucan**, et al., “ A new approach to the structural features of the Aegean Sea: Cellular neural network” MARINE GEOPHYSICAL RESEARCHES Volume: 26 Issue: 1 Pages: 1-15, Mar 2005 (SCI-Expanded)

28.Onur Osman, **Osman N. Ucan**, “Blind Equalization of Turbo Trellis Coded Partial Response Continuous Phase Modulation signalling over narrow-band Rician fading channel” IEEE TRANSACTION ON WIRELESS COMMUNICATIONS (TOW), Volume: 4 Issue: 2 Pages: 397-403, MAR 2005(SCI-Expanded)

29.Bilgili E, Goknar IC, **Osman N. Ucan**, “Cellular neural network with trapezoidal activation function”, *INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS* Volume: 33 Issue: 5 Pages: 393-417 ,SEP-OCT 2005 (SCI-Expanded)

30.Bilgili E, Goknar IC, Albora AM, **Osman N. Ucan**, et al. “Potential anomaly separation and archeological site localization using genetically trained multi-level cellular neural networks”, ETRI JOURNAL Volume: 27 Issue: 3 Pages: 294-303,JUN 2005 (SCI-Expanded)

31. Osman O, **Osman N. Ucan**, Odabasioglu N, “ Performance of multilevel turbo codes with group partitioning over satellite channels”, IEE PROCEEDINGS-COMMUNICATIONS Volume: 152 Issue: 6 Pages: 1055-1059, DEC 2005 (SCI-Expanded)

32. Ozcan HK, **Osman N. Ucan**, Sahin U, Borat M, Bayat C., “Artificial neural network modeling of methane emissions at Istanbul Kemerburgaz-Odayeri landfill site”, JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH , Volume: 65 Issue: 2 Pages: 128-134,FEB 2006 (SCI-Expanded)

33. Albora AM, **Osman N. Ucan**, “Separation of magnetic-field data using the differential

Markov random-field (DMRF) approach”, GEOPHYSICS Volume: 71 Issue:2,Pages: L25-L34,MAR-APR2006 (SCI-Expanded)

34. Karacor AG, Sivri N, **Osman N. Ucan**, “Maximum stream temperature estimation of Degirmendere River using artificial neural network”, JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH Volume: 66 Issue: 5 Pages: 363-366, MAY 2007(SCI Expanded)

35. **Osman N. Ucan**, Buyukatak K, Gose E, Onur O, Odabasioglu N, “Performance of multilevel-turbo codes with blind/non-blind equalization over WSSUS multipath channels” INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS Volume: 19 Issue: 3 Pages:281-297, APR2006(SCI-Expanded)

36. Altay G, **Osman N. Ucan** , Ugurdag HF, “Geometric augmented product codes”, IEE PROCEEDINGS-COMMUNICATIONS, Volume: 153 Issue: 5 Pages: 591-596, OCT 2006 (SCI-Expanded)

37. Osman O, Albora AM, **Osman N. Ucan**, “A new approach for residual gravity anomaly profile interpretations: Forced Neural Network (FNN)”, ANNALS OF GEOPHYSICS Volume: 49 Issue: 6 Pages: 1201-1208, DEC 2006(SCI-Expanded)

38. Altay G, **Osman N. Ucan**, “ Heuristic construction of high-rate linear block codes”, AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS Volume: 60 Issue: 9 Pages: 663-666, 2006 (SCI-Expanded)

39. Albora AM, Sayin N, **Osman N. Ucan**, “Evaluation of tectonic structure of Iskenderun Basin (Turkey) using steerable filters”, MARINE GEOPHYSICAL RESEARCHES Volume: 27 Issue: 4 Pages: 225-239, 2006 (SCI-Expanded)

40. Sivri N, Kilic N, **Osman N. Ucan**, “Estimation of stream temperature in Firtina Creek (Rize-Turkiye) using artificial neural network model”, JOURNAL OF ENVIRONMENTAL BIOLOGY Volume:28 Issue:1 Pages:67-72,JAN2007(SCI-Expanded)

41. **Osman N. Ucan**, Osman O, “Channel-parameter estimation for turbo trellis coded modulation in OFDM systems”, JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS Volume: 52 Issue: 4 Pages: 431-440, APR 2007(SCI-Expanded)

42. Hekim Y, Odabasioglu N, **Osman N. Ucan**, “Performance of low density parity check coded continuous phase frequency shift keying (LDPCC-CPFSK) over fading channels”, INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS Volume: 20 Issue: 4 Pages: 397-410, APR 2007 (SCI-Expanded)

43. Albora AM, **Osman N. Ucan**, Aydogan D, “Modelling potential field sources in the Gelibolu Peninsula (Western Turkey) using a Markov Random Field approach”, PURE AND APPLIED GEOPHYSICS Volume: 164 Issue: 5 Pages: 1057-1080, MAY 2007(SCI-Expanded)

44. Osman O, Albora AM, **Osman N. Ucan**, “Forward modeling with forced neural networks for gravity anomaly profile”, MATHEMATICAL GEOLOGY Volume: 39 Issue: 6 Pages: 593-605, AUG 2007 (SCI-Expanded)

45. Niyazi Kilic, **Osman N. Ucan**, Onur Osman, “Colonic Polyp Detection in CT Colonography with Fuzzy Rule Based 3D Template Matching”, *J MED SYST* Vol. 33 pp. 9–18, 2009. **(SCI-Expanded)**
46. Onur Osman, Serhat Ozekes, Osman N. Ucan, “Lung nodüle diagnosis using 3D template matching”, *Computers in Biology and Medicine* 37,pp. 1167–1172, 2007. **(SCI-Expanded)**
47. Ozcan HK, Bilgil E, Sahin U, **Osman N. Ucan**, Bayat C, “Modeling of trophospheric ozone concentrations using genetically trained multi-level cellular neural networks”, *ADVANCES IN ATMOSPHERIC SCIENCES* Volume: 24 Issue: 5 Pages: 907-914, SEP 2007 **(SCI-Expanded)**
48. Albora AM, **Osman N. Ucan**, Aydogan D, “Tectonic modeling of Konya-Beysehir Region (Turkey) using cellular neural networks”, *ANNALS OF GEOPHYSICS* Volume: 50 Issue: 5 Pages: 603-614, OCT 2007**(SCI-Expanded)**
49. Albora AM, Bal A, **Osman N. Ucan**, “A new approach for border detection of the Dumluca (Turkey) iron ore area: Wavelet cellular neural networks”, *PURE AND APPLIED GEOPHYSICS*, Volume: 164 Issue: 1 Pages: 199-215, JAN 2007 **(SCI-Expanded)**
50. Ertas G, Gulcur HO, Osman O, **Osman N. Ucan**, et al., “Breast MR segmentation and lesion detection with cellular neural networks and 3D template matching”, *COMPUTERS IN BIOLOGY AND MEDICINE* Volume: 38 Issue: 1 Pages: 116-126, JAN 2008 **(SCI-Expanded)**
51. Ertas G, Gulcur HO, Tunaci M, **Osman N. Ucan**, et al., “A preliminary study on computerized lesion localization in MR mammography using 3D nMITR maps, multilayer cellular neural networks, and fuzzy c-partitioning” *MEDICAL PHYSICS* Volume: 35 Issue:1 Pages: 195-205, JAN 2008 **(SCI-Expanded)**
52. Bayat O, Shafai B, Salehi M, **Osman N. Ucan**, et al. “Signalling enhancement on multilevel turbo codes”, *INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS*, Volume: 21 Issue: 7 Pages: 791-798, JUL 2008 **(SCI-Expanded)**
53. Bayat O, Odabasioglu N, Osman O, **Osman N. Ucan**, et al., “Joint Multilevel Turbo Equalization and Continuous Phase Frequency Shift Keying”, *EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING*, Article Number: 458785, 2008 **(SCI-Expanded)**
54. Satir T, Demir H, Alkan GB, **Osman N. Ucan**, et al, “Ship Waste Forecasting at the Botas LNG Port Using Artificial Neural Networks”, *FRESENIUS ENVIRONMENTAL BULLETIN* Volume: 17 Issue: 12A Pages: 2064-2070, 2008 **(SCI-Expanded)**
55. Ozcan HK, Balkaya N, Bilgili E, **Osman N. Ucan**, et al, “Modeling of Methane Distribution in a Landfill Using Genetic Algorithms”, *ENVIRONMENTAL ENGINEERING SCIENCE* Volume: 26 Issue: 2 Pages: 441-449, FEB 2009 **(SCI-Expanded)**
56. Sahmurova A, Kilic N, Okan I, **Osman N. Ucan**, et al.,” Evaluation of Trace Element Concentrations in Groundwater and Classification of Endemic Disease Regions using Multilayer Perceptron Neural Network”, *JOURNAL OF RESIDUALS SCIENCE*

&TECHNOLOGY, Volume: 6 Issue: 2 Pages: 83-88, APR 2009 (**SCI-Expanded**)

57. **Osman N. Ucan**, Albora M, “Markov random field image processing applications on ruins of the Hittite Empire” NEAR SURFACE GEOPHYSICS Volume: 7 Issue: 2 Pages: 111-122, APR 2009 (**SCI-Expanded**)

58. Odabasioglu N, **Osman N. Ucan**, “Multilevel turbo coded-continuous phase frequency shift keying (MLTC-CPFSK)”, COMPUTERS & ELECTRICAL ENGINEERING Volume: 35 Issue: 3 Pages: 441-449, MAY 2009 (**SCI-Expanded**)

59. Balkaya N, Ozcan HK, **Osman N. Ucan**, “Determination of relationship between hardness and groundwater quality parameters by neural networks”, DESALINATION AND WATER TREATMENT Volume: 11 Issue: 1-3 Pages: 258-263, NOV 2009 (**SCI-Expanded**)

60. Kilic N, **Osman N. Ucan**, Osman O, “Colon segmentation and colonic polyp detection using cellular neural networks and three-dimensional template matching”, EXPERT SYSTEMS Volume: 26 Issue: 5 Pages: 378-390, NOV 2009 (**SCI-Expanded**)

61. Gorgel P, Kilic N, Ucan B, **Osman N. Ucan**, Kala A, “A Backpropagation Neural Network Approach For Ottoman Character Recognition”, INTELLIGENT AUTOMATION AND SOFT COMPUTING Volume: 15 Issue: 3 Pages: 451-462, 2009 (**SCI-Expanded**)

62. Kilic N, Osman N. Ucan, Osman O, “Colon segmentation and colonic polyp detection using cellular neural Networks and three dimensional template matching”, EXPERT SYSTEMS, 26(5):378-390, NOV 2009 (**SCI-Expanded**)

63. Cam H, **Osman N. Ucan**, Odabasioglu N, Sonmez AC,” Performance of joint multilevel/AES-LDPCC-CPFSK schemes over wireless sensor networks”, INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS Volume: 23 Issue: 1 Pages: 77-90, JAN 2010 (**SCI-Expanded**)

64. Kilic N, Kursun O, **Osman N. Ucan**, “Classification of the Colonic Polyps in CT Colonography Using Region Covariance as Descriptor Features of Suspicious Regions”, JOURNAL OF MEDICAL SYSTEMS Volume: 34 Issue: 2 Pages: 101-105, APR 2010 (**SCI-Expanded**)

65. Ergun Gumus, Niyazi Kilic, Ahmet Sertbas, **Osman N. Ucan**, “Evaluation of face recognition techniques using PCA, wavelets and SVM” EXPERT SYSTEMS WITH APPLICATIONS, 37(9):6404-6408, SEP 2010 (**SCI-Expanded**)

66. Akgundogdu Abdurrahim, Kurt Serkan, Kilic Niyazi, **Osman N. Ucan**, “Diagnosis of Renal Failure Disease Using Adaptive Neuro-Fuzzy Inference System”, JOURNAL OF MEDICAL SYSTEMS Volume: 34 Issue: 6 Pages: 1003-1009, DEC 2010, (**SCI-Expanded**)

67. Kilic Niyazi, Gorgel Pelin, **Ucan Osman N.**, et al., “Mammographic Mass Detection using Wavelets as Input to Neural Networks”, JOURNAL OF MEDICAL SYSTEMS Volume: 34 Issue: 6 Pages: 1083-1088, DEC 2010 (**SCI-Expanded**)

68. Gorgel Pelin; Sertbas Ahmet; Ucan Osman N., “A Wavelet-Based Mammographic Image Denoising and Enhancement with Homomorphic Filtering”, JOURNAL OF MEDICAL SYSTEMS Volume: 34 Issue: 6 Pages: 993-1002, DEC 2010 (**SCI-Expanded**)

69. Akgundogdu, A ; Jennane, R , Aufort, G , Benhamou, CL **Ucan, ON** , “3D Image Analysis and Artificial Intelligence for Bone Disease Classification”, JOURNAL OF MEDICAL SYSTEMS Volume: 34 Issue: 5 Pages: 815-828, OCT 2010, **(SCI-Expanded)**
70. Pelin GÖRGEL, Ahmet SERTBAS, **Osman Nuri UCAN**, “A Comparative Study of Breast Mass Classification based on Spherical Wavelet Transform using ANN and KNN Classifiers” INTERNATIONAL JOURNAL OF ELECTRONICS, MECHANICAL and MECHATRONICS ENGINEERING, Vol.2 Num.1 pp.(79-85),2010
71. Roger Lédée, Fabien Courrèges, Rachid Harba, Onur Osman, **Osman N.Ucan**, “Automatic isocontour determination for iodine dose calculation using cellular neural networks on scintigraphic images”, INTERNATIONAL JOURNAL OF ELECTRONICS, MECHANICAL and MECHATRONICS ENGINEERING, Vol.2 Num.1 pp.(110-127), 2010
72. Cam Hakan, Ozduran Volkan, Altay Gokmen, **Osman N. Ucan**, “Cooperative communications with multilevel/AES-SD4-CPFSK in wireless sensor networks”, ANNALS OF TELECOMMUNICATIONS-ANNALES DES TELECOMMUNICATIONS Volume: 66 Issue: 9-10 Pages: 507-518, OCT 2011 **(SCI-Expanded)**
73. Sahin Ulku Alver, Bayat Cuma, **Ucan Osman N.**, “Application of cellular neural network (CNN) to the prediction of missing air pollutant data”, ATMOSPHERIC RESEARCH Volume: 101 Issue: 1-2 Pages: 314-326, JUL 2011 **(SCI-Expanded)**
74. Cam Hakan, **Ucan Osman N.**, Ozduran Volkan, “ Multilevel/AES-LDPCC-CPFSK with channel equalization over WSSUS multipath environment “, AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS Volume: 65 Issue: 12 Pages: 1015-1022, 2011 **(SCI-Expanded)**
75. Ceylan, M ., Ozbay, Y., **Ucan, ON.**, Yildirim, E., “ A novel method for lung segmentation on chest CT images: complex-valued artificial neural network with complex wavelet transform” TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES Volume: 18 Issue: 4 Pages: 613-623, 2010, **(SCI-Expanded)**
76. Ülkü Alver Şahin , **Osman Nuri Ucan** , Cuma Bayat, Orhan Tolluoglu, “A New Approach to Prediction of SO₂ and PM₁₀ Concentrations in Istanbul, Turkey: Cellular Neural Network (CNN)” Environmental Forensics, 12:253–269, 2011 **(SCI-Expanded)**
77. Balkaya N., Ozcan H. Kurtulus, **Ucan O. Nuri**, “ Determination of relationship between hardness and groundwater quality parameters by neural networks”, DESALINATION AND WATER TREATMENT Volume: 11 Issue: 1-3 Pages: 258-263, NOV 2009 **(SCI-Expanded)**
78. Jennane, Rachid; Aufort, Gabriel; Benhamou, Claude Laurent, Ceylan, M ; Ozbay, Y ; **Ucan, ON** “A New Method for 3D Thinning of Hybrid Shaped Porous Media Using Artificial Intelligence. Application to Trabecular Bone”, JOURNAL OF MEDICAL SYSTEMS Volume:36 Issue: 2 Pages: 497-510 APR 2012 **(SCI-Expanded)**
79. Gorgel, Pelin; Sertbas, Ahmet; **Ucan, Osman N**, “Mammographical mass detection and classification using Local Seed Region Growing-Spherical Wavelet Transform (LSRG-SWT) hybrid scheme”, COMPUTERS IN BIOLOGY AND MEDICINE Volume: 43 Issue: 6 Pages: 765-774 DOI: 10.1016/j.combiomed.2013.03.008 Published: JUL 1 2013 **(SCI-Expanded)**

80. Roger Lédée, Fabien Courrèges, Rachid Harba, Onur Osman, **Osman N. Ucan**, “Automatic isocontour determination for iodine dose calculation using cellular neural networks on scintigraphic images” INTERNATIONAL JOURNAL OF ELECTRONICS, MECHANICAL and MECHATRONICS ENGINEERING (IJEMME) Vol.2 Num.1 pp.(110-127) 2013.
81. Karamzadeh, S.; Rafii, V.; Kartal, M.; **Osman N. Ucan.**, “Circularly polarised array antenna with cascade feed network for broadband application in C-band” ELECTRONICS LETTERS Volume: 50 Issue: 17 Pages: 1184-1185 Published: AUG 14 2014 (**SCI-Expanded**)
82. Sivri, Nuket; Fraim, N. Linda; **Ucan, Osman N.**; et al. “Educational effectiveness in increasing coastal pollution awareness using fuzzy based algorithms” FRESENIUS ENVIRONMENTAL BULLETIN Volume: 23 Issue: 12 Pages: 3084-3087 Published: 2014, (**SCI-Expanded**)
83. Gorgel, Pelin; Sertbas, Ahmet; **Ucan, Osman Nuri**, “Computer-aided classification of breast masses in mammogram images based on spherical wavelet transform and support vector machines”, EXPERT SYSTEMS, Volume: 32 Issue: 1 Pages: 155-164 Published: FEB 2015 (**SCI-Expanded**)
84. Ulaş Çelenk, Duygu Çelik Ertuğrul, Metin Zontul, **Osman Nuri Uçan**, “Self-Organizing maps with sliding Window (SOM+SW), TEHNICKI VJESNIK, 2016 (**SCI-Expanded**)
85. Lütfiye Dahil, Abdurrahman Karabulut, **Osman Nuri Uçan**, “ Investigation of Vibration Damping in the Passenger Seat Constructions”, INTERNATIONAL JOURNAL OF ELECTRONICS, MECHANICAL and MECHATRONICS ENGINEERING (IJEMME), 2016
86. Gökhan Eşgi, **Osman N. Uçan**, “Labrot-I: RF İletişimli Mobil Robot Kolu” ISTANBUL AYDIN ÜNİVERSİTESİ DERGİSİ, Yıl 8, Sayı 31 s. 133-144, 2016
87. Nuket Sivri, Ahmet Mete Cilingirturk, Dursun Zafer Seker, Zeki Imamoglu, **Osman Nuri Ucan**, “Prediction of Water Consumption In Istanbul By Means of Statistical Forecasting Models & Geographic Information Systems (GIS)” Volume 26 – No. 1, pages 375-382 FRESENIUS ENVIRONMENTAL BULLETIN, 2017 (**SCI-Expanded**)
88. Ahmed K. Abbas, Oguz Bayat, **Osman Nuri Ucan**,” Estimation of Twitter user’s Nationality Based on Friends and Followers Information” COMPUTERS AND ELECTRICAL ENGINEERING, pages 1-14, 2017 (**SCI-Expanded**)
89. Y Çobas, AD Duru, **ON Uçan**, O Bayat, “Dikkat Seviyesinin Gerçek Zamanda İzlenmesi; Bir Web Uygulaması” AURUM-MÜHENDİSLİK SİSTEMLERİ VE MİMARLIK DERGİSİ 1 (1), 67-74,2017
90. HT Ibrahim, WJ Mazher, **ON Ucan**, O Bayat, “Feature Selection using Salp Swarm Algorithm for Real Biomedical Datasets” INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY (12), 13, 2017 (**ESCI**)
91. WJ Mazher, O Bayat, **ON Ucan**, “Performance of Systematic Distance-4 Codes in Free-Space Optical Communication System” INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY(12), 5, 2017 (**ESCI**)

92. I Salman, **ON Ucan**, O Bayat, K Shaker, "Impact of Metaheuristic Iteration on Artificial Neural Network Structure in Medical Data" PROCESSES 6 (5), 57, 2018 (**SCI-Expanded**)
93. SQ Fleh, O Bayat, S Al-Azawi, **ON Ucan**, "A Systematic Mapping Study on Touch Classification" INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY 18 (3), 7, 2018 (**ESCI**)
94. AH Shalla, **ON Ucan**, O Bayat, "Formation Control and Obstacle Avoidance in Swarm Robots", INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY 18 (3), 126, 2018 (**ESCI**)
95. A Alazzawi, **ON Ucan**, O Bayat, "Evaluation of Face Recognition Techniques Using 2nd Order Derivative and New Feature Extraction Method Based on Linear Regression Slope" INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY 18 (3), 169-177, 2018 (**ESCI**)
96. WJ Mazher, HT Ibrahim, **ON Ucan**, O Bayat, "Drone swarm with free-space optical communication to detect and make deep decisions about physical problems for area surveillance", OPTICAL ENGINEERING 57 (3), 036116, 2018 (**SCI**)
97. A. K. Abbas, O Bayat, **ON Ucan**, "Estimation of Twitter user's nationality based on friends and followers information" COMPUTERS & ELECTRICAL ENGINEERING 66, 517-530, 2018 (**SCI-Expanded**)
98. KMS Alzaidi, O Bayat, ON Uçan, "A Heuristic Approach for Optimal Planning and Operation of Distribution Systems", JOURNAL OF OPTIMIZATION 2018 (**SCI-Expanded**)
99. M Ilyas, **ON Ucan**, O Bayat, X Yang, QH Abbasi, "Mathematical Modeling of Ultra Wideband in Vivo Radio Channel, "IEEE ACCESS 6, 20848-20854, 2018 (**SCI**)
100. Ali Majid NOOR, **Osman Nuri UÇAN**, Oğuz BAYAT, "PV Penetration Effect for Regulating Voltage Using Reactive Power/Reaktif Güç Kullanarak Gerilim Düzenlemesinde PV Penetrasyon Etkisi", AURUM-MÜHENDİSLİK SİSTEMLERİ VE MİMARLIK DERGİSİ 2 (1), 17-25,2018
101. Amna Mohamed M. ABURAS, Wamidh MAZHER, **Osman Nuri UÇAN**, Oğuz BAYAT, "Implementation of Different Clustering Algorithms/Farklı Sınıflandırma Algoritmalarının Uygulamaları", AURUM-MÜHENDİSLİK SİSTEMLERİ VE MİMARLIK DERGİSİ 2 (1), 49-66 ,2018
102. Tayfun ÇELİK, Oğuz BAYAT, Adil Deniz DURU, **Osman Nuri UÇAN**, "Öncül Bilgi Tabanlı Kan Paylaşım Sistemi Tasarım ve Uygulaması/Design and Implementation of The Pioneer-Based Blood Sharing System", AURUM-MÜHENDİSLİK SİSTEMLERİ VE MİMARLIK DERGİSİ 2 (1), 83-98 ,2018
103. M Ilyas, **ON Ucan**, O Bayat, AA Nasir, MA Imran, A Alomainy, Q Abbasi, "Evaluation of ultra-wideband in-vivo radio channel and its effect on system performance"TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES, 2018 (**SCI-Expanded**)
104. HT Ibrahim, WJ Mazher, **ON Ucan**, O Bayat, "A grasshopper optimizer approach for feature selection and optimizing SVM parameters utilizing real biomedical data sets", NEURAL COMPUTING AND APPLICATIONS, 1-10,2018 (**SCI-Expanded**)

105. WJ Mazher, HT Ibrahim, YM Mathboob, **ON Ucan**, “Optical onboard double decoding/forward performance with long codes for optical routing”, *OPTICAL ENGINEERING* 58 (2), 027106, 2019 (**SCI-Expanded**)
106. TA Mohammed, O Bayat, **ON Uçan**, S Alhayali,” Hybrid Efficient Genetic Algorithm for Big Data Feature Selection Problems”, *FOUNDATIONS OF SCIENCE*, 1-17, 2019 (**SCI-Expanded**)
107. S Al Hayali, J Rahebi, **ON Ucan**, O Bayat, “Increasing Energy Efficiency in Wireless Sensor Networks Using GA-ANFIS to Choose a Cluster Head and Assess Routing and Weighted Trusts to Demodulate Attacker Nodes”, *FOUNDATIONS OF SCIENCE*, 1-20, 2019 (**SCI-Expanded**)
108. M Ilyas, **ON Ucan**, O Bayat, AA Nasir, MA Imran, A Alomainy, QH Abbasi, “Evaluation of ultra-wideband in vivo radio channel and its effects on system performance” *TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES* 30 (1), e3530, 2019 (**SCI-Expanded**)
109. IB Jasim, O Bayat, **ON Ucan**, “Concatenation of polar codes with three-dimensional parity check (3D-PC) codes to improve error performance over fading channels”, *INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS*, e3970, 2019 (**SCI-Expanded**)
110. H.Kurtuluş ÖZCAN, Ülkü ŞAHİN, Cuma BAYAT,**O.Nuri UÇAN**, “İstanbul ili tropsoferik ozon (O3) konsantrasyonlarının hücrel yapay sinir ağ yöntemiyle modellenmesi”, *GAZİ ÜNİV. MÜH. MİM. FAK. DER. Cilt 21, No 2, pp. 239-245, 2006.*
111. Saadaldeen Rashid Ahmed Ahmed, **Osman UÇAN**, Adil Deniz DURU, Oğuz BAYAT, “ Breast cancer detection and image evaluation using augmented deep convolutional neural networks”, *AURUM JOURNAL OF ENGINEERING SYSTEMS AND ARCHITECTURE*, Volume 2, No. 2pp.121-129, 2018.
112. Shaymaa Al Hayali,Javad Rahebi,**Osman N. Ucan**,Oguz Bayat, “Increasing Energy Efficiency in Wireless Sensor Networks Using GA-ANFIS to Choose a Cluster Head and Assess Routing and Weighted Trusts to Demodulate Attacker Nodes”, *FOUNDATIONS OF SCIENCE* vol. 25, pp. 1227–1246, 2020. (**SCI-Expanded**)
113. **Osman N. Ucan**, Onur Osman, Omer Erkan, “Repeating space time codes for turbo trellis coded modulation” *ACTA TECHNICA NAPOCENSIS*, Vol.43,Num2.pp1-5,2002.
114. SA Shaban, **ON Ucan**, AD Duru, “ Classification of Lactate Level Using Resting-State EEG Measurements”, *APPLIED BIONİCS AND BIOMECHANICS*, 2021(**SCI-Expanded**)
115. HIH Alsaadi, RM ALmuttari, ON Ucan, O Bayat, “An adapting soft computing model for intrusion detection system,” *COMPUTATIONAL INTELLIGENCE*, 2021 (**SCI-Expanded**)
116. AJ Mahdi, WJ Mazher, **ON Ucan**, “Impact of pointing error on SISO/MISO drones swarm-based free space optical system in weak turbulence regime” *INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE* 23, 2021 (**E-SCI**)

117. Haedar Emad Sharef Alsaf, **Osman Nuri Ucan**, “A novel intelligent machine learning system for coronary heart disease diagnosis” APPLIED NANOSCIENCE, 31 Temmuz 2021, (SCI-Expanded)
118. B Dinç, M İlyas, H Kaygusuz, **ON Uçan**, “5 GHz Wi-Fi effects on Escherichia coli, Caenorhabditis Elegans and human neuroblastoma cells”, MUGLA JOURNAL OF SCIENCE AND TECHNOLOGY 7 (1), 7-13, 2021.
119. Murtadha M. A. Alkadhmi , **Osman N. Uçan** , Muhammad Ilyas,” An Efficient and Reliable Routing Method for Hybrid Mobile Ad Hoc Networks Using Deep Reinforcement Learning “APPLIED BIONICS AND BIOMECHANICS, 2021.
120. Alla Fikrat Alwindawi, **Osman Nuri Uçan**, Abdullahi A. Ibrahim, Aminu Yusuf, “Novel semi-supervised learning approach for descriptor generation using artificial neural networks “SOFT COMPUTING, 2022. (SCI-Expanded)
121. Abdullah Jameel Mahdi, Wamidh Jalil Mazher, **Osman Nuri Ucan**,”Parameter optimization for hovering multi-rotor drones-based free-space optical links” APPLIED NANOSCIENCE, 2022 (SCI-Expanded)
122. Othman A. Hanshal, **Osman N. Ucan**, Yousef K. Sanjalawe, ”Hybrid deep learning model for automatic fake news detection” APPLIED NANOSCIENCE, 2022 (SCI-Expanded)
123. HR Alsanad, AZ Sadik, **ON Ucan**, M Ilyas, O Bayat, “YOLO-V3 based real-time drone detection algorithm”, MULTIMEDIA TOOLS AND APPLICATIONS, 2022(SCI-Expanded)
124. Firas Hammoodi Neannah Al-mutar, Abdullahi Abdu Ibrahim, **Osman Nuru Ucan**, “Provide a new framework for blockchain-based integrated and resource classification for the cloud “APPLIED NANOSCIENCE, 2022 (SCI-Expanded)
125. Peren Jerfi CANATALAY, **Osman Nuri Ucan**, “A Bidirectional LSTM-RNN and GRU Method to Exon Prediction Using Splice-Site Mapping, APPLIED SCIENCES, 2022 (SCI-Expanded)
126. Fauzi A. Bala, **Osman N. Ucan**, Oguz Bayat,” Voice to Face Recognition Using Spectral ERB-DMLP Algorithms”, COMPUTERS, MATERIALS & CONTINUA, pp.2187-2204, Vol. 73, Num.1, 2022 (SCI-Expanded)
127. Firas. H.N. Al-mutar, **Osman N. Ucan**, Abdullahi A. Ibrahim,” Providing Scalability and Privacy for Smart Contract in the Healthcare System”, OPTIK 2022 (SCI-Expanded)
128. Mohammed Sabah Hameed Alsalima, ,”Secure Banking and International trade digitization using Blockchain”, OPTIK 2022 (SCI-Expanded)
129. Saif Al-jumaili, Adil Deniz Duru , Abdullahi Abdu Ibrahim , **Osman Nuri Uçan**, “Investigation of Epileptic Seizure Signatures Classification in EEG using Supervised Machine Learning Algorithms” IIEATA, 2023 (SCI-Expanded)

7.2 Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler (110 adet)

1. **Osman N. Ucan**, Osman O, Gumus A., “Performance of turbo coded signals over partial response fading channels with imperfect phase reference”, *Conference Information: 43rd IEEE Midwest Symposium on Circuits and Systems*, AUG 08-11, 2000 LANSING, MI, Source: Proceedings of the 43rd IEEE Midwest Symposium On Circuits And Systems, Vols I-III Pages:258-261,2000.
2. **Osman N. Ucan**, Umit Aygolu , Erdal Panayirci, “Reduced-Decoding Complexity of Quadrature Partial Response-Trellis Coded Modulation (QPR-TCM) in the presence of intersymbol interference”, *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, England, pp. 148-153, October 1991.
3. **Osman N. Ucan**, Erdal Panayirci, “Optimal Nyquist-Kind Filters Design With Minimum Phase Jitter In Partial Response Systems”, *Conference Information: International Conf on Information and Systems, 1991 Assoc Modelling & Simulat Enterprises*, Hangzhou, Peoples R China, Source: Information And Systems, Vols 1-3 Pages:425-428,1991
4. **Osman N. Ucan**, Umit Aygolu , Erdal Panayirci, “Decoding of Quadrature Partial Response-Trellis Coded Modulation (QPR-TCM) in the presence of intersymbol interference and Noise”, *9. International Symposium on Applied Algebra, Algebraic Algorithms and Error Correcting Codes, AAECC-9*, USA, Springer Verlag, pp. 434-445, 1991.
5. **Osman N. Ucan**, Umit Aygolu , Erdal Panayirci, “Error Performance of Quadrature Partial Response-Trellis Coded Modulation (QPR-TCM) in Fading Mobile Satellite Channel “, *26th Information Science and Systems Conference*, USA ,pp. 517-520, 1992.
6. **Osman N. Ucan**, “Performance Analysis of QPR-TCM in Fading Mobile Satellite Channel”, *Seventh IEE European Conference on Mobile Personal Communication*, pp. 73-77, December 1993.
7. **Osman N. Ucan**, “Quadrature Partial Response-Trellis Coded Modulation (QPR-TCM) on Fading Mobile Satellite Channel”, *IEEE International Symposium on Information Theory*, Norwegian, pp. 452, July 1994.
8. **Osman N. Ucan**, “Performance Analysis of Modified/Quadrature Partial Response Trellis Coded Modulation (M/QPR-TCM) Signals on Mobile Satellite Fading Channels”, *IEEE International Conference on Communications, SuperComm/ICC*, USA, pp.1443-1447, May 1994.
9. **Osman N. Ucan**, “Performance Analysis of Trellis Coded M-PSK and Neural Network Equivalent Systems over Partial Response-Fading Channels with imperfect Phase Reference”, *IEEE International Conference on Universal Personal Communications*, October 1996.
10. **Osman N. Ucan**, “Jitter and Error Performance QPR-TCM and Neural Network Equivalent Systems over Mobile Satellite Channels”, *Seventh IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC*, October pp.457-461, 1996.
11. M. Uysal, **Osman N. Ucan** , “Combined Trellis Quantization/Modulation over Fading Mobile Channel ” *ACTS Mobile Communication Summit*, pp 906-911, 1997.

12. **Osman N. Ucan**, “Trellis Coded MPSK and Neural Network Equivalent Systems over Partial Response Channels”, 7. *International Colloquium on Numerical Analysis and Computer with Applications*, p. 137, 13-15 August 1998

13. **Osman N. Ucan**, Atilla Ozmen, “Performance of Gray Scaled Images using Quantized Cellular Neural Network Combined Trellis coded Quantization/Modulation (QCNN-CNN CTCQ/TCM) Approach over Rician Fading Channel”, *International Conference on Telecommunications*, June 15-18, pp.379-382, Korea, 1999.

14. Mukden Uğur, **Osman N. Ucan**, Ayten Kuntman, Atilla Ozmen, Ahmet Merev, “Analysing the 2-D surface tracking patterns by using cellular neural networks”, *IEEE Annual Report Conference on Electrical insulation and dielectric phenomena*, USA, pp.154-157, 1999.

15. **Osman N. Ucan**, A. Muhittin Albora, Atilla Ozmen, Bulent Sen, “ Bouguer Anomaly Maps Separation using Markov Random Field”, *Second Balkan Geophysical Congress and Exhibition*, Istanbul, pp. 100-101, 1999.

16. Serhat Seker, **Osman N. Ucan**, A. Muhittin Albora, Atilla Ozmen, “2-D Wavelet Application on Geophysics”, *International Conference on Electrical and Electronics Engineering, ELECO, Bursa*, pp. 390-394, 1999.

17. **Osman N. Ucan**, Hakan A. Cirpan, “Trellis Coded Quantization/Modulation over Rician fading channel”, *International Conference on Electrical and Electronics Engineering, ELECO, Bursa*, pp. 257-262, 1999.

18. Hakan A. Cirpan, **Osman N. Ucan**, “Blind Equalization of Quadrature Partial Response-Trellis Coded Modulated Signals in Rician Fading”, *International Workshop on Mobile Communications (IWMC)*, Greece, pp.224-231, 1999.

19. **Osman N. Ucan**, A. Muhittin Albora, Serhat Seker, “Biga Region Fault Modelling Using Wavelet Approach on Bouguer Anomaly” *International Earth Sciences Colloquium on the Aegean Region, IESCA-Izmir*, pp. 151-158, 2000.

20. Abdullah Bal, Halit Pastacı, **Osman N. Ucan**, “Artificial Neural Network Approach for 2-D image segmentation”, *Electrical, Electronics & Computer Engineering Symposium and Exhibition, May, Cyprus*, pp.178-181, 2001.

21. Atilla Özmen, Emir Tufan Akman, Koray Kayabol, **Osman N. Ucan**, “The combination of steerable filters and CNN for edge detection application”, *Second International Conference on Electrical and Electronics Engineering, ELECO, Bursa*, pp. 122-126, 2001.

22. **Osman N. Ucan**, Erkan Danaci, A. Muhittin Albora, “Image processing on ruins of Hitit civilization using Random Neural Network Approach”, *Recent Researches on Electronics and Earth Sciences International Conference RREESC*, pp. 63-75, Istanbul, 2001.

23. A. Muhittin Albora, **Osman N. Ucan**, Atilla Ozmen, Erdem Bilgili, “Separation of Gravity data using Cellular Neural Network”, *Recent Researches on Electronics and Earth Sciences International Conference RREESC*, pp.81-92, Istanbul, 2001.

24. Aburrahim Akgundoğdu, **Osman N. Ucan**, A. Muhittin Albora, Nusret Sarisakal, “Potential separation of anomalies using Artificial Neural Networks”, *Recent Researches on Electronics and Earth Sciences International Conference RREESC*, pp. 93-99, Istanbul, 2001.

25. Abdullah Bal, **Osman N. Ucan**, A. Muhittin Albora, Halit Pastacı, Serhat Şeker, "Separation of Potential anomaly maps using Wave-CNN", *Recent Researches on Electronics and Earth Sciences International Conference RREESC*, pp. 123-132, Istanbul, 2001.
26. Savas Gorgun, A. Kahriman, G. Tuncer, **Osman N. Ucan**, E. Bakirci, A. Özmen, "Computer simulation of explosive demolition of structures by using neural networks", *28th Annual Conference on Explosives and blasting technique*, pp. 427-437, Nevada, USA, Feb., 2002.
27. Erdem Bilgili, **Osman N. Ucan**, A. Muhittin Albora, I. Cem Goknar, "Potential Anomaly Separation Using Genetically Trained Multi-Level Cellular Neural Networks" *Cellular Neural Networks and their Application CNNA*, pp. 391-398, Germany, Frankfurt, 2002.
28. A. Muhittin Albora, **Osman N. Ucan**, "Manyas Lake region's geological modelling using gravity anomaly map", *International Conference on Earth Sciences and Electronics, ICESE*, pp. 95-102, Istanbul, 2002.
29. A. Muhittin Albora, Abdullah Bal, **Osman N. Ucan**, "Wavelet based design of dynamical neural networks for magnetic map processing", *International Conference on Earth Sciences and Electronics, ICESE*, pp. 133-140, Istanbul, 2002.
30. Onur Osman, **Osman N. Ucan**, A. Muhittin Albora, "Evaluation of Hittite archeological ruins using iterative cellular image processing algorithm (ICIPA)", *International Conference on Earth Sciences and Electronics, ICESE*, pp. 219-227, Istanbul, 2002.
31. Atilla Özmen, **Osman N. Ucan**, A. Muhittin Albora, "Boundary detection using steerable filters", *International Conference on Earth Sciences and Electronics, ICESE*, pp. 263-268, Istanbul, 2002.
32. Gökmen Altay, **Osman N. Ucan**, "BER performance of some distance-8 decomposable linear block codes", *International Conference on Signal Processing (ICSP) Vol.1, Num.2*, pp. 246-247, Eylül 2003.
33. **Osman N. Ucan**, A. Muhittin Albora, D. Aydoğan, "Tectonic modeling of gravity of Konya-Beyşehir Region (Turkey) using Cellular Neural Networks", *International Conference on Earth Sciences and Electronics, ICESE*, pp. 117-123, Istanbul, 2003
34. A. Muhittin Albora, **Osman N. Ucan**, "Evaluation of Ruins of Hittite Empire in Sivas-Kusakli region using Markov Random Field (MRF)", *International Conference on Earth Sciences and Electronics, ICESE*, pp. 301-307, Istanbul, 2003.
35. A. Muhittin Albora, **Osman N. Ucan**, D. Aydoğan, "Modelling of gravity and magnetic data due to Gelibolu peninsula (Western Turkey) using Markov Random Field", *International Conference on Earth Sciences and Electronics, ICESE*, pp. 14-22, Istanbul, 2003.
36. D. Aydoğan, **Osman N. Ucan**, A. Muhittin Albora, Ali Elmas, "A new approach to tectonic structure of Aegean Sea: Cellular Neural Network (CNN)", *International Conference on Earth Sciences and Electronics, ICESE*, pp. 155-161, Istanbul, 2003.
37. O. Osman, **Osman N. Ucan**, D. Aydoğan, A. Muhittin Albora, "Adaptive Exhaustive Algorithm (AEA) evaluation for gravity anomaly maps", *International Conference on Earth Sciences and Electronics, ICESE*, pp. 353-362, Istanbul, 2003.

38. O. Osman, D. Aydoğan, **Osman N. Ucan**, A.Muhittin Albora, “Forced Neural Network (FNN) approach for gravity models”, *International Conference on Earth Sciences and Electronics, ICESE*, pp. 325-334, Istanbul, 2003.
39. U. Sahin, **Osman Nuri Ucan**, Burcu Soyhan, Cuma Bayat, “Modeling of CO distribution in Istanbul using artificial neural networks”, *12.International symposium on environmental pollution and its impact on life in the mediterranean region*, Kasım, Antalya 2003.
40. Kenan Büyükkatak, Ersin Gose, **Osman N. Ucan**, Sedef Kent, Onur Osman, “Channel Equalization and Noise reduction based on Turbo codes”, *Recent Advances in Space Technologies (RAST)*, pp. 632-636, Kasım 2003
41. G. Altay, S. Yalcin, **Osman N. Ucan**, “Trellis decoding of some decomposable codes”, *Recent Advances in Space Technologies (RAST)*, pp. 655-657, Kasım 2003
42. Onur Osman, **Osman N. Ucan**, “Concatenation of Space-Time Block Codes and Turbo-Trellis Coded modulation (ST-TTCM) over Rician channels with imperfect phase reference”, *Recent Advances in Space Technologies (RAST)*, pp. 623-631, Kasım 2003
43. Ersin Gose, Kenan Büyükkatak, Onur Osman, **Osman N. Ucan**, Halit Pastaci, “Performance of turbo decoding for time-varying multi-path channels”, *Recent Advances in Space Technologies (RAST)*, pp. 646-651, Kasım 2003
44. Sedef Kent, **Osman N. Ucan**, Tolga Ensari, “Synthetic Aperture Radar image processing using cellular neural networks”, *Recent Advances in Space Technologies (RAST)*, pp. 286-288, Kasım 2003
45. Gökmen Altay, **Osman N. Ucan**, “Construction and minimal trellis for (32, 16, 8) decomposable code”, *Second International Conference on Electrical and Electronics Engineering, ELECO, Bursa*, pp. 308-310, 2003.
46. Bayat O, Shafai B, **Osman N. Ucan**, “An efficient channel equalization on the transmission of turbo coded signals”, *Conference Information: 5th International Conference on Communications in Computing (CIC 2004)*, JUN 21-24, 2004 Las Vegas, NV Source: CIC'04: Proceedings of the International Conference On Communications in Computing Pages:73-78,2004
47. Bayat O, Montlouis W, Shafai B, **Osman N. Ucan**, Onur Osman, “Channel estimation and tracking of wireless communication”, *Conference Information: IEEE Military Communications Conference (MILCOM 2005)*, OCT, 2005 Atlantic City, NJ Source: MILCOM 2005- 2005 IEEE Military Communications Conference, Vols 1-5 Pages:214-217,2005
48. Bayat O, Shafai B, **Osman N. Ucan**, “Iterative equalization of frequency selective channels”, *Conference Information: IEEE Sarnoff Symposium on Advances in Wired and Wireless Communication*, APR 18-19, 2005 Princeton, NJ Source: 2005 IEEE Sarnoff Symposium On Advances In Wired And Wireless Communication Book Series:IEEE Sarnoff Symposium Pages:153-156,2005
49. Bal A, **Osman N. Ucan**, Pastaci H, et al., “Wavelet-cellular neural network architecture and learning algorithm”, *Conference Information: Conference on Independent Component Analyses, Wavelets, Unsupervised Smart Sensors and Neural Networks II*, APR 14-15, 2004 Orlando, FL, Source: Independent Component Analyses, Wavelets, Unsupervised Smart Sensors, And Neural Networks II Book Series: Proceedings of the Society of Photo-Optical

50. Tolluoglu O, **Osman N. Ucan**, Kent S, Serdar Kargin, "Edge detection in noise mounted Picture" *Conference Information: IEEE 12th Signal Processing and Communications Applications Conference*, APR 28-30, 2004 Kusadasi, TURKEY Source: Proceedings of the Ieee 12th Signal Processing And Communications Applications Conference Pages:335-338,2004

51. Bayat O, Shafai B, **Osman N. Ucan**, "Reduced state equalization of multilevel turbo coded signals" *Conference Information: 30th IEEE International Conference on Acoustics, Speech, and Signal Processing*, MAR 19-23, 2005 Philadelphia, PA Source: 2005 IEEE International Conference On Acoustics, Speech, And Signal Processing, Vols 1-5 - Speech Processing Book Series: International Conference On Acoustics Speech and Signal Processing(ICASSP), Pages:705-708,2005

52. **ON Uçan**, O Bayat, MB Çoşkun, "Development and evaluation of the authentication by using phase-only correlation palm print identificaton methods", *International Conference on Engineering and Technology (ICET)* , 2017

53. AK A., TA M., O Bayat, **O.N.U**, "The prediction of fusion degree of international groups accounts", *International Conference on Engineering and Technology (ICET)* , 2017

54. Bilgili E, Goknar IC, **Osman N. Ucan**, " Applications of CNN with trapezoidal activation function", *Conference Information: International Symposium on Complex Computing-Networks*, JUN 13-14, 2005 Dogus Univ Istanbul, Istanbul, TURKEY Source: Complex Computing-Networks - Brain-Like And Wave-Oriented Electrodynamical Algorithms Book Series: Springer Proceedings In Physics Volume:104 Pages:235-242,2006

55. Caglak F, Albora AM, **Osman N. Ucan**, "Determination off the fault zone by using genetic cellular neural network in the Thrace and the Marmara Sea" *Conference Information: IEEE 14th Signal Processing and Communications Applications*, APR 16-19, 2006 Antalya, TURKEY, Source: 2006 IEEE 14th Signal Processing and Communications Applications, Vols1 and 2 Pages:176-178,2006

56. Altay G, **Osman N. Ucan**, Altay N, "Full-information rate distance-4 block codes" *Conference Information: 3rd International Symposium on Wireless Communication Systems (ISWCS 2006)*, SEP 05-08, 2006 Valencia, SPAIN Source: 2006 3rd International Symposium on Wireless Communication Systems, Vols 1-2 Pages: 759-760,2006

57. Altay G, **Osman N. Ucan**, Altay N, Şenay Yalçın, " On the trellis structures of geometric augmented product codes", *Conference Information: 1st NASA/ESA Conference on Adaptive Hardware and Systems*, JUN 15-18, 2006 Bahcesehir Univ, Istanbul, TURKEY Source: AHS 2006: First NASA/ESA Conference on Adaptive Hardware and Systems, Proceedings Pages:442-448,2006

58. Lemineur G, Harba R, Kilic N, **Osman N. Ucan** et al., "Efficient estimation of osteoporosis using artificial neural networks", *Conference Information: 33rd Annual Conference of the IEEE-Industrial-Electronics-Society*, NOV 05-08, 2007 Taipei, TAIWAN, Source: IECON 2007: 33rd Annual Conference of The IEEE Industrial Electronics Society, Vols 1-3, Conference Proceedings Book Series: IEEE Industrial Electronics Society Pages: 3039-3044, 2007

59. Kilic N, Osman O, **Osman N. Ucan**, "Colon Segmentation and the Detection of Colonic Polyp with Template Matching in CT Images" *IEEE 16th Signal Processing, Communication and Applications Conference, VOLS 1 AND 2* Pages: 784-787, 2008
60. Kilic N, Gorgel P, **Osman N. Ucan**, et al, "Multifont Ottoman character recognition using Support Vector Machine", Conference Information: 3rd *IEEE International Symposium on Control, Communications and Signal Processing (ISCCSP 2008)*, MAR 12-14, 2008 St Julians, MALTA, 2008 Source: 3rd International Symposium On Communications, Control And Signal Processing, VOLS1-3, Pages: 328-333, 2008
61. **Osman N. Ucan**, H. Tur, A. Muhittin Albora, "The modelling and comments on gravity, magnetic anomaly of Canakkale region using Markov Random Field", *European Geophysical Society, XXVI General Assembly*, Vol.3, p.760, Nice, France, March 2001.
62. **Osman N. Ucan**, E. Bilgili, A. Muhittin Albora, "Detection of buried objects on archaeological areas using genetic Cellular neural network", *European Geophysical Society, XXVI General Assembly*, Vol.3, p.1523, Nice, France, March 2001.
63. E. Danaci, A. Muhittin Albora, **Osman N. Ucan**, "Evaluation of archaeological data by using random neural network", *European Geophysical Society, XXVI General Assembly*, Vol.3, p.1508, Nice, France, March 2001.
64. **Osman N. Ucan**, A. Bal, A. Muhittin Albora, "Evaluation of Kusakli archaeological data by wavenet approach", *European Geophysical Society, XXVI General Assembly*, Vol.3, p.1522, Nice, France, March 2001.
65. A. Muhittin Albora, **Osman N. Ucan**, H. Stumpel, F. Bilgili, "Comment on archaeological structures of Hitit civilization using Markov Random Field", *European Geophysical Society, XXVI General Assembly*, Vol.3, p.1503, Nice, France, March 2001.
66. A. Ozmen, A. Muhittin Albora, **Osman N. Ucan**, "Application of Cellular neural network approach on archaeological data", *European Geophysical Society, XXVI General Assembly*, Vol.3, p.1516, Nice, France, March 2001.
67. B. Tander, A. Ozmen, **Osman N. Ucan**, A. Muhittin Albora, "Determination of iron ore reservoir in Dumluca by using cellular neural networks", *European Geophysical Society, XXVI General Assembly*, Vol.3, p.1434, Nice, France, March 2001.
68. Hüseyin Tur, A. Muhittin Albora, Berkan Ecevitoglu, **Osman N. Ucan**, "Comment on Aero-Magnetic Anomaly Map and Shallow Seismic data Application of Markov", *European Geophysical Society, XXVI General Assembly*, Vol.3, p.759, Nice, France, March 2001.
69. A. Muhittin Albora, H. Tur, **Osman N. Ucan**, "Interpretation of magnetic gravity and seismic data by Saros bay", *European Geophysical Society, XXVI General Assembly*, Vol.3, p.737, Nice, France, March 2001.
70. Gerald Lemineur, Rachid Harba, **Osman N. Ucan**, Onur Osman, Laurent Benhamou, "Efficient estimation of osteoporosis using artificial neural Networks", *The 33rd Annual Conference of the IEEE Industrial Electronics Society (IECON)*, Nov 5-8 Taiwan, pp.3039-3044, 2007.
71. Esra Calik, Buket Dogan, **Osman Nuri Ucan** "Computer Aided Detection of age related macular degeneration in retinal images" *Signal Processing and Communications Applications Conference (SIU)*, ss.807-810, 2015.

72. Reza Ziarati, Martin.Ziarati,**Osman N.Uçan**,David Stockton, “Design and Development of a Factory of the Future in Turkey”, *Proceedings of the 10th Mediterranean Conference on Control and Automation - MED2002* Lisbon, Portugal, July 9-12, 2002.
73. Gursev Pirge, Niyazi Kılıç, **Osman N. Uçan**, Sabri Altıntaş, “Evaluation of NiMnGa Magnetic Shape Memory Alloys Using Cellular Neural Networks”, III European Conference on Computational Mechanics Solids, Structures and Coupled Problems in Engineering C.A. Mota Soares et al. (eds.) Lisbon, Portugal, 5–8 June p.167, 2006.
74. Gökmen Altay, **Osman Nuri Uçan**, Nejla Altay, “Full-Information Rate Distance-4 Block Codes”, *3rd International Symposium on Wireless Communication Systems*, pp. 759 760, 2006.
75. R. Jennane, A. Almhdie-Imjabber, R. Hambli, **O. N. Ucan**,C. L. Benhamou, “Genetic Algorithm and Image Processing for Osteoporosis Diagnosis”, *32nd Annual International Conference of the IEEE EMBS* Buenos Aires, Argentina, August 31 - September 4, 2010.
76. A Alazzawi, **ON Uçan**, O Bayat, “Face recognition based on multi features extractors”, *International Conference on Engineering and Technology (ICET)*, 2017
77. FA Mustafa, O Bayat, **ON Ucan**,”Quality of remote sensing data for extracting water body” *International Conference on Engineering and Technology (ICET)* , 2017
78. HH Safi, **ON Ucan**, O Bayat, “Study The Effect of High Dimensional Objective Functions on Multi-Objective Evolutionary Algorithms”, *Proceedings of the Fourth International Conference on Engineering & MIS 2018*
79. S Al-hayali, **O Ucan**, O Bayat, “Genetic Algorithm for finding shortest paths Problem”, *Proceedings of the Fourth International Conference on Engineering & MIS 2018*
80. HH Safi, **ON Ucan**, O Bayat, “On the real world applications of many-objective evolutionary algorithms”, *Proceedings of the First International Conference on Data Science, E-learning and Information Systems*, p.32, 2018
81. TA Mohammed, **ON Uçan**, O Bayat, “Neural network behavior analysis based on transfer functions MLP & RB in face recognition”, *Proceedings of the First International Conference on Data Science, E-learning and Information Systems*, p.15, 2018
82. HI Alsaadi, MK Al-Anni, RM Almuttairi, O Bayat, **ON Ucan**, “Text steganography in font color of MS excel sheet”, *Proceedings of the First International Conference on Data Science, E-learning and Information Systems*, p.10, 2018
83. A Alazzawi, **ON Ucan**, O Bayat, “Robust face recognition algorithm based on linear operators discrete wavelet transformation and simple linear regression”, *Proceedings of the First International Conference on Data Science, E-learning and Information Systems*, p.1, 2018
84. AA Ibrahim, O Bayat, **ON Ucan**, SA Eleruja, “EN-NEAT: Enhanced Energy Efficient Threshold-Based Emergency Data Transmission Routing Protocol for Wireless Body Area

Network”, *Third International Congress on Information and Communication Technology* , pp 325-334, 2019

85.Niyazi Kılıç, Pelin Görgel, **Osman N. Ucan**, Ahmet Kala, “Multifont Otoman character recognition using support vector machine” *ISCCSP*, Malta, 12-14 March, pp. 328-333, 2008+

86.Ahmet Kala, **Osman N. Ucan**, Türker Aksoy, Niyazi Kılıç, Pelin Görgel, “Discrete Wavelet transform for Otoman character recognition”, *The Fifth International Symposium on Wavelet Applications to World Problems*, June 7-8, 2010, p. 43, Istanbul

87.Olcay Akbulut Kuruş, Niyazi Kılıç, **Osman N. Ucan**, “Hermitian Transform approach in classification of ECG signals”, *The Fifth International Symposium on Wavelet Applications to World Problems*, June 7-8, 2010, p. 40, Istanbul

88.Murat Ceylan, **Osman N. Ucan**, Yüksel Özbay, Rachid Jennane, Gabriel Aufort, Eric Lespessaille, “Comparison of complex wavelet transforms and discrete wavelet transforms for hybrid skeletonisation approach”, *The Fifth International Symposium on Wavelet Applications to World Problems*, June 7-8, 2010, p. 37, Istanbul

89.Güldem Küçük, **Osman N. Ucan**, Niyazi Kılıç, Aladdin Sayın, “Computer aided detection of multiple sclerosis lesions from MR images of the human brain”, *The Fifth International Symposium on Wavelet Applications to World Problems*, June 7-8, 2010, p. 38, Istanbul

90.Murat Ceylan, **Osman N. Ucan**, Yüksel Özbay, “Image segmentation with complex-wavelet and discrete wavelet transform”, *The Fifth International Symposium on Wavelet Applications to World Problems*, June 7-8, 2010, p. 39, Istanbul

91. Layth Hani Al-Samarai, **Osman Nuri Ucan**, Oguz Bayat,” An analysis of accessibility in learning management system in the context of higher education institution”, *10th International Conference on Image Processing, Wavelet and applications*, p.24,2019.

92. Mohammed Mahmood, Osama Ashour, Oğuz Bayat, **Osman Nuri Ucan**, “Design and implementation of web based for intermediate online shop with Laravel framework”, *10th International Conference on Image Processing, Wavelet and applications*, p.25,2019.

93. Naama M. Athab, **Osman Nuri Ucan**, Oğuz Bayat, Saadeen Ahmed, “Intelligent system for prediction behaviour of electrical energy consumption”, *10th International Conference on Image Processing, Wavelet and applications*, p.26,2019.

94. Ali S. Al-Naser, **Osman Nuri Ucan**, Oğuz Bayat, “Pattern-based behavioral biometric authentication using artificial neural networks”, *10th International Conference on Image Processing, Wavelet and applications*, p.27,2019.

95. Muhammad Ilyas, Oguz Bayat, **Osman Nuri Ucan**, Muhammad Ali Imran, “Location Dependent Channel Characteristics for Implantable Devices”, *2019 International Conference on Advances in the Emerging Computing Technologies (AECT)*, pp.1-4, 2019.

96. Hamid Falah Dheyab, **Osman Nuri Ucan**, Mohammed Khalaf Alaa Hamid Mohammed “Implementation a Various Types of Machine Learning Approaches for Biomedical Datasets based on Sickle Cell Disorder”, *4th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*, pp.1-6, 2020.

97. Mohammed Yaseen Taha, Mohamed Jasim Mohamed, **Osman Nuri Ucan**, “ Optimal 3D Path Planning for the Delivery Quadcopters Operating in a City Airspace”, *4th*

International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), pp.1-10, 2020.

98. Abdullahi A. Ibrahim, Oguz Bayat, **Osman N. Ucan**, Sani Salisu, “Weighted Energy and QoS based Multi-hop Transmission Routing Algorithm for WBAN”, *6th international engineering conference " Sustainable Technology and Development"*, pp.191-195, IEC-2020

99. S Al-Jumaili, AD Duru, **ON Uçan**, “Covid-19 Ultrasound image classification using SVM based on kernels deduced from Convolutional neural network”, *IEEE 5th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*, pp. 429-433, 2021

100. Abdullah Jameel Mahdi, Jalil Mazher, Osman Nuri Ucan, “Hovering Drones-Based FSO Technology In Weak Atmospheric Turbulence With Pointing Error”, *International Conference on Computing and Communications Applications (ICAT)*, pp. 52-56, 2021

101. Muhammad Ilyas, **Osman Nuri UÇAN**, Yehya El Mohamad “Smart Home Automation System Design Based on IoT Device Cloud”, *International Conference on Computing and Machine Intelligence (ICMI)*, 2021

102. Ahmed Qasim Abdulghani, **Osman Nuri UCAN** Khattab M. Ali Alheeti, “Credit Card Fraud Detection System using Machine Learning Algorithms and Fuzzy Membership” *International Conference of Modern Trends in Information and Communication Technology Industry (MTICTI)*, 2021.

103. A Zainab Hussam Abdaljabar, **Osman Nuri UCAN**, Khattab M. Ali Alheeti, “An Intrusion Detection System for IoT Using KNN and Decision- Tree Based Classification” *International Conference of Modern Trends in Information and Communication Technology Industry (MTICTI)*, 2021.

104. Marwa Mohammed Khalifa, **Osman Nuri UCAN**, Khattab M. Ali Alheeti,” New Intrusion Detection System to Protect MANET Networks Employing Machine Learning Techniques” *International Conference of Modern Trends in Information and Communication Technology Industry (MTICTI)*, 2021

105. Abdullah J. Mahdi, Wamidh Jalil Mazher, **Osman Nuri Ucan**, “Performance and Analysis of the Altitude for Optical Channel Drones “2nd International Multi-Disciplinary Conference “*Integrated Sciences and Technologies*” (IMDC-IST) 2021.

106. Mohammed Thakir Mahmood, **Osman Nuri Ucan**, Abdullahi Abdu Ibrahim, “A Survey on Privacy And Policy Aspects Of Blockchain Technology” *International Conference on Engineering & MIS (ICEMIS)*, 1-11, 2022.

107. Saif Al-jumaili, Ahmed Al-jumaili, Salam Alyassri, Adil Deniz Duru, **Osman Nuri UÇAN**, “Recent Advances on Convolutional Architectures in Medical Applications: Classical or Quantum?” *6th International Symposium on Multidisciplinary studies and innovative Technologies*, 20-22 October Ankara, 2022.

108. Mohammed Abdulkareem, Saif Al-jumaili, Harith Muthanna Noori, Adil Deniz Duru, **Osman Nuri UÇAN** “Using A Novel Method To Improve Various Stages Of Machines In The Power System” *6th International Symposium on Multidisciplinary studies and innovative Technologies*, 20-22 October Ankara, 2022.

109. Elaf hayder Sadeq Al-Samkri, Saif Al-jumaili, Harith Muthanna Noori, Adil Deniz Duru, **Osman Nuri UÇAN** “Transmission Line Loss Determination of Electricity by Using

Convolutional Neural Network” *6th International Symposium on Multidisciplinary studies and innovative Technologies, 20-22 October Ankara, 2022.*

110. Rawaa Ali, **Osman Nuri UÇAN**, Saif Al-jumaili, Aytug Boyacı, Adil Deniz Duru, Dilek Göksel Duru, “Classification of Brain Tumors using MRI images based on Convolutional Neural Network and Supervised Machine Learning Algorithms” *6th International Symposium on Multidisciplinary studies and innovative Technologies, 20-22 October Ankara, 2022.*

7.3 Yazılan Uluslararası kitaplar veya kitaplarda bölümler

1. Onur Osman, **Osman N. Ucan**, “Contemporary coding techniques and applications for mobile communications”, Taylor and Francis, (ISBN 978-1-4200-5461-3) CRC 2009.

2. **Osman N. Ucan**, M. Uysal, S. Paker, “Performance of Combined Trellis Coded Quantization /Modulation over Wireless Local Loop Environment”, chapter of *Wireless Local Loop: Theory and Applications*, Edited by Peter Stavroulakis, John Wiley and Sons Ltd. Publications (ISBN 0471 49746 7), 2001. (Bölüm Yazarlığı)

3. **Osman N. Ucan**, Hakan A. Cirpan, “Blind Equalization of Quadrature Partial Response-Trellis Coded Modulated Signals in Rician Fading”, chapter of *Third Generation Mobile Telecommunication Systems*, Edited by Peter Stavroulakis, Springer Verlag (ISBN 3-540-67850-6), 2001. (Bölüm Yazarlığı)

4. U. Çelenk, DÇ Ertuğrul, M Zontul, A Elçi, **ON Uçan**, “Dynamic Quota Calculation System (DQCS): Pricing and Quota Allocation of Telecom Customers via Data Mining Approaches” *Handbook Of Research On Contemporary Perspectives On Web-Based Systems*, 434-459, 2018. (Bölüm Yazarlığı)

7.4. Ulusal Dergilerdeki Yayınlar (34 adet)

1. **Osman N. Ucan**, Atilla Ozmen, “Performance of Gray Scaled Images Using Segmented Cellular Neural Network Combined Trellis coded Quantization/Modulation (SCNN-CNN CTCQ/TCM) Approach over Rician Fading Channel”, *Doguş Üniversitesi Dergisi*, ss.217-224, Ocak 2000.

2. Niyazi Odabasıoğlu, A.Korhan Tanc, **Osman N. Ucan**, “2D image transmission using Kalman-Turbo systems”, *Istanbul University– journal of electrical & electronics engineering*, pp.1443-1448, Vol5, Num 2, 2005.

3. Niyazi Kılıç, **Osman N.Ucan**, “Biomedical Image processing Using Combined MRF-CNN Method”, *Istanbul University-Journal of Electrical &Electronics (IU-JEEE)*, Vol.4, Number2, pp.1227-1231,2004

4. **Osman N. Ucan**, “Turbo kodlanmış işaretlerde seyirme etkisini azaltan yaklaşımlar”, *Doguş Üniversitesi Dergisi*, ss. 170-174, Temmuz 2000.

5. **Osman N. Ucan**, Lokman Ağırman “Moving object detection using delayed cellular neural network”, *Doguş Üniversitesi Dergisi*, ss. 175-181, Temmuz 2000.

6. M. Nusret Sarısakal, K. Göksel Marangoz, **Osman N. Ucan**, “Elektronik ticarete sayısal imzanın kullanımı”, *Istanbul University-Journal of Electrical &Electronics (IU-JEEE)*, Vol.1, Number 2, pp.169-178, 2001.

7. **Osman N. Ucan**, A. Muhittin Albora, “Markov Rastgele alanlar yöntemi kullanarak Hitit Huvasi kutsal sahasının görüntülenmesi”, *Marmara Üniversitesi, Sosyal Bilimler Enstitüsü Dergisi*, Cilt 4, sayı 15, ss. 35-38, Ocak 2001
- 8.A. Muhittin Albora, **Osman N. Ucan** “Gravity Anomaly Separation Using 2-D Wavelet Approach and average depth calculation”, *Doğuş Üniversitesi Dergisi*, ss. 1-13, Vol. 3, Ocak, 2001.
- 9.**Osman N. Ucan**, Onur Osman, “Turbo Trellis Coded Modulation (TTCM) with Imperfect Phase Reference”, *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.1, Number 1 pp,1-5, 2001.
- 10.**Osman N. Ucan**, Onur Osman, Aykal Gumus, “Performance of Turbo Coded Signals over Partial Response Fading Channels with Imperfect Phase Reference”, *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.1, Number 2, pp,149-168, 2001.
11. Adem Karahoca, **Osman N. Ucan**, Erkan Danaci, “Random Neural Network Approach in Distributed Database Management System”, *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.1, Number 1, pp.84-110, 2001.
- 12.M. Ziarati, **Osman N. Ucan**, M. Ziarati, “Optimisation of Economic Order Quantity Using Neural Network Approach”, *Doğuş Üniversitesi Dergisi*, Sayı 3, ss. 120-128, Ocak 2001.
- 13.E.Bilgili, **Osman N. Ucan**, “Geriye yayılma algoritması kullanarak yaprak desenlerinin sınıflandırılması”, *Doğuş Üniversitesi Dergisi*, Sayı 4, ss.1-13, 2001.
- 14.M. Samil Sağıroğlu, **Osman N. Ucan**, “İlintili görüntülerin birleşik Markov Rastgele Alan modeli ile gerçek zamanlı uygulanabilir eniyileme yaklaşımı”, *Doğuş Üniversitesi Dergisi*, Sayı 5, ss.141-149, 2002.
- 15.M. Ziarati, D. Stockton, **Osman N. Ucan**, E. Bilgili, “Design and Development of Material and Information Flows for Supply Chains using Genetic Cellular Neural Networks”, *Doğuş Üniversitesi Dergisi*, Sayı 5, ss.193-209, 2002.
16. Oguz Bayat, Hissam Alnajjar, **Osman N. Ucan**, Onur Osman, “Performance of Turbo coded signals over fading channels”, *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.2, Number 1, pp.417-422, 2002.
17. Oguz Bayat, **Osman N. Ucan**, “Multivariable Control in Helicopters”, *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.2, Number 1, pp.437-446, 2002.
18. Kenan Büyükkatak, **Osman N. Ucan**, Ersin Göse, Onur Osman, Sedef Kent, “Adaptive Wiener-Turbo system and adaptive Wiener-Turbo systems with jpeg & bit plane compressions”, *Istanbul University- journal of electrical & electronics engineering*, pp.257-276, Vol7, Num 1, 2007.
19. Niyazi Kılıc, Onur Osman, **Osman N. Ucan**, Kemal Demirel, “Automatic colon segmentation using cellular neural network for the detection of colorectal polyps”, *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.7, Number2, pp.419-422, 2007.

20. Gökmen Altay, **Osman N. Ucan**, "Iterative decoding of geometric product codes", *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.5, Number2, pp.1379-1383,2005.
21. **Osman N. Ucan**, A. Bal, M. Mercimek, "Image Feature Extraction using dynamic Neural Network", *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.2, Number 2, pp. 537-539, 2002.
22. **Osman N. Ucan**, E. Bilgili, R. Çoban, "Extraction of facial features using genetic cellular neural networks", *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.2, Number 2, pp. 601-609, 2002.
23. **Osman N. Ucan**, "Concatenation of Space-Time Block Codes and Turbo Trellis Coded Modulation (ST-TTCM) over Rician Fading Channels with Imperfect Phase Reference", *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol. 2, Number 2, pp.335-343, 2002.
24. O. Erkan, Onur Osman, **Osman N. Ucan**, "Trellis coded modulation over partial response fading channels", *Istanbul Ticaret Üniversitesi Dergisi*, Sayı 1, ss. 289-299, Mayıs 2002.
25. Olcay Akbulut, Onur Osman, **Osman N. Ucan**, "Computer network optimization using genetic algorithm", *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.6, Number2, pp.245-259,2006
26. Onur Osman, **Osman N. Ucan**, A. Muhittin Albora, "Iterative cellular image processing algorithm", *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.3, Number1, pp. 775-782,2003
27. O. Erkan, O. Osman, **Osman N. Ucan**, "Space time coding for trellis coded modulation in additive white Gaussian channels", *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.3, Number 2, pp.967-971, 2003.
28. N. Odabasioglu, **Osman N. Ucan**, Onur Osman, "Error performance of trellis coded Quantization / Continuous Phase Modulation Systems (TCQ/CPM) on AWGN channels", *Istanbul University-Journal of Electrical & Electronics (IU-JEEE)*, Vol.3, Number 2, pp. 961-966,2003.
29. Murat Ceylan, **Osman Nuri Ucan**, Yuksel Ozbay, Rachid Jennane, Gabriel Aufort, Claude Laurent Benhamou, "Comparison of discrete wavelet and complex wavelet transform in hybrid skeletonization based on CVANN", *Istanbul Aydın Üniversitesi, Fen Bilimleri Dergisi (IAU-FBD)*, 2010.
30. Atilla Özmen, **Osman N. Ucan**, A. Muhittin Albora, "Yönlendirilmeli filtreler yardımıyla Konya bölgesi civarındaki gömülü fayların tespiti", *Doğuş Üniversitesi Dergisi*, 4 (1), ss. 107-116, 2003.
31. Pelin Görgel, Ahmet Sertbaş, **Osman N. Ucan**, "Feature extraction based wavelet transform in breast cancer diagnosis using fuzzy and non-fuzzy classification", *International journal of electronics; mechanical and mechatronics engineering* Vol.2 Num.4 pp.(327-333)

32. **Osman N. Ucan**, Tayfun Acarer, Ertugrul Karacuha, Onur Osman, Gökmen Altay, Şenay Yalcin, “Performance of the systematic distance-4 codes over fading channels”, *Istanbul University-Journal of Electrical &Electronics (IU-JEEE)*, Vol.8, Number 2, pp. 707-713,2008.

33. Serdar Kargin, **Osman N. Uçan**, Ali Orhan Tolluoğlu, Sedef Kent, “Hücresele yapay sinir ağları ile kızılötesi görüntülerde gürültünün temizlenmesi”, *Havacılık ve uzay teknolojileri dergisi* Vol. 2, Sayı 1, ss. 77-86, 2005.

34. Baybora Temel, Niyazi Kilic,Bunyamin Ozgultekin,**Osman N. Ucan**, “Separation of original paintings of Matisse and his fakes using wavelet and artificial neural networks”, *Istanbul University-Journal of Electrical &Electronics (IU-JEEE)*, Vol.9, Number 1, pp. 791-796,2009.

7.5 Ulusal Bilimsel Toplantılarda Sunulan ve Bildiri Kitabında Basılan Bildiriler

7.6 Diğer Yayınlar

Kitaplar

1. **Osman N. Ucan**, Onur Osman, “Haberleşme Teorisi ve Mühendislik Uygulamaları”, Nobel Yayın, (ISBN 9944-77-039-6) 2006

2. **Osman N. Ucan**, Onur Osman, A. Muhittin Albora “Görüntü işleme teknikleri ve Mühendislik Uygulamaları”, Nobel Yayın, (ISBN 9944-77-051-5)2006

Çeviri Kitaplar

8. Projeler

1. “A new Approach to Gravity Anomaly Separation Differential Markov Random Field (DMRF), Separation ofMagnetic fields in geophysical studies using a 2D Multi-Resolution Wavelet analysis approach”, Istanbul Üniversitesi Araştırma Fonu Projesi, ProjeNo. Ö 997/03052001.

2.“Marmara Denizinde Ölçülen Gravite ve Manyetik Anomali Haritalarının Hücresele ve Rastgele Yapay Sinir Ağ Yapıları, Markov Rastgele Değişkenler, Dalgacık Metodu ile İncelenerek Modellenmiş Jeolojik Yapıların Sismik Verilerle Karşılaştırılarak Turbo Kodlanmış Ortamlarda Hata Başarımı”, Istanbul Üniversitesi Araştırma Fonu Projesi, ProjeNo. 1409/05052000.

3. “Separation of Magnetic Field Data Using 2-D Wavelet”, Istanbul Üniversitesi Araştırma Fonu Projesi, ProjeNo. B-371/21032000.

4.“Sürekli Fazlı Çok Boyutlu Birleşik Kaynak/Kanal Kodlamalı İşaretlerin (CPM CTCQ/TCM) ve Eşdeğer Hücresele Yapay Sinir Ağ Modelinin Sualtı Ortamında Hata Başarımı”, Istanbul Üniversitesi Araştırma Fonu Projesi, ProjeNo. 1121/010598.

5.“Yapay sinir Ağları ile Rezidüel Anomalilerin Arazi Ortamında Ayırımı”, Istanbul Üniversitesi Araştırma Fonu Projesi, ProjeNo. 28/03092002.

6.“Geological Modeling of Sivas City using Markov Random Field and Cellular Neural Network Approaches”, Istanbul Üniversitesi Araştırma Fonu Projesi, ProjeNo. B 813/170/2001.

7. “Sivas Bölgesi Altınyayla’da Bulunan Hitit Uygarlığı ile Lüksemburg Bölgesi Titelberg Civarında Bulunan Roma Uygarlığına Ait Arkeojeofizik Dataların DMRF, CNN, RNN ve Wavelet Yöntemleri Kullanarak Arkeolojik Sahaların Ortaya Çıkarılması”, TÜBİTAK Projesi, Proje No. YDABÇAG-100Y021.

8. “Markov Rastgele Alanlar ve Hücrel Sinir Ağ Yapıları Yaklaşımına Dayanan Stokastik Yöntemlerle Sivas İli Çevresinin Yeraltı Jeolojik Yapısının Bouguer Anomali Haritası Kullanarak Modellenmesi”, İstanbul Üniversitesi Araştırma Fonu Projesi, ProjeNo. 1247/050599.

9. “Konya ve Trakya Bölgelerinin Gravite ve Manyetik Anomali Haritaları Kullanarak RNN, Genetik CNN ve Yönlendirilmiş Filtreler Yardımıyla Modellenmesi”, İstanbul Üniversitesi Araştırma Fonu Projesi, ProjeNo. 1539/16012001.

10. “Batı Anadolu’nun Gravite ve Aeromagnetik Verilerin Görüntü İşleme Teknikleri ile Modellenmesi”, TÜBİTAK Projesi, Proje No. 101Y063.

11. “Uzay Zaman Kodlamalı Sistemlerde Kanal Kestirimi”, İstanbul Üniversitesi Araştırma Fonu Projesi, ProjeNo. G-2092.

12. Mukden Uğur, Ayten Kuntman, **Osman N. Ucan**, Ahmet Merev, “Polyester izolatörlerindeki ısı değişimlerinin Markov rastgele alan (Markov Random Field) ve hücrel yapay sinir ağ (Cellular Neural Network) yaklaşımlarıyla değerlendirilmesi” , İstanbul Üniversitesi Projesi. Proje No. 1333/280799.

13. A.Kahriman, Gungor Tuncer, **Osman N. Ucan**, Savas Gorgun, “Patlatmalı yapı yıkım tekniklerinin planlanmasında yapay sinir ağlarının kullanılabilirliğinin araştırılması”, İstanbul Üniversitesi Projesi, Proje No. 1569/16012001.

14. A. Muhittin Albora, **Osman N. Ucan**, Atilla Ozmen, “Markov rastgele alanlar ve hücrel yapay sinir ağ yapıları yaklaşımına dayanan stokastik yöntemlerle Sivas ili çevresinin yeraltı jeolojik yapısının Bouguer anomaly haritası kullanarak modellenmesi”, İstanbul Üniversitesi Projesi, Proje No. 1247/050599

15. Ahmet Kal’a, **Osman N. Ucan**, ““Matbu eserlerin Latin Harfli Türkçeye Çevrilmesi için 2 Boyutlu Görüntü İşleme yöntemlerini içeren Gerçek Zamanlı Özgün Programı ile veri bankasının geliştirilerek İstanbul Müzelerinde de yer alan Hat sanatı örneklerinin Yapay Sinir Ağı tabanlı yaklaşımlarla sınıflandırılması”2010 İstanbul Avrupa Kültür Başkenti Projesi

16. **Osman N. Ucan**, Ahmet Kal’a, “16. Yüzyıl ve sonrası Türk kültürü kaynaklarından yararlanmayı hızlandırmak üzere; Matbu/El yazısı Osmanlıca metinlerinin Latin harfli Türkçe’ye Yapay Zekaya dayanan görüntü işleme teknikleri ve akıllı veri tabanı kullanılarak çevrilmesi”, Elginkan Vakfı Projesi, 2010.

17. **Osman N. Ucan** (Akademik Koordinatörü), “Online Osmanlıca Çeviri Programı Geliştirilmesi”, KOSGEB Projesi, 2012.

18. **Osman N. Ucan** (Akademik Koordinatörü), “Yeni Nesil Led Aydınlatma Ar-Ge ve Ölçüm Laboratuvarı Kurulumu”, ISTKA Projesi, 2012.

19. **Osman N. Ucan** (Uzaktan Eğitim Koordinatörü), “İAU Engelsiz Yaşam Araştırma ve Uygulama Koordinatörlüğü Projesi”, ISTKA Projesi, 2012.

20. **Osman N. Ucan** (Yürütücü), “Enformasyon proje Yarışması”, TÜBİTAK Projesi, 2012.

21. **Osman N. Ucan** (Yürütücü), “Robot proje Yarışması”, TÜBİTAK Projesi, 2012.
22. **Osman N. Ucan** (Koordinatör), “Proje Pazarı Etkinliği: “Bridging Europe and Turkey on Energy Efficiency and Renewable Energy Technology Projects: Istanbul Aydın University – Industry Cooperation” TÜBİTAK 1503, 2012.
23. **Osman N. Ucan** (Koordinatör), “Proje Pazarı Etkinliği: “Gıda Sanayiinde Yeni Teknolojiler ve Yaklaşımlar Proje Pazarı” TÜBİTAK 1503, 2012.
24. **Osman N. Ucan** (Yürütücü), “Enformasyon proje Yarışması”, TÜBİTAK Projesi, 2013.
25. **Osman N. Ucan** (Yürütücü), “Robot proje Yarışması”, TÜBİTAK Projesi, 2013.
24. **Osman N. Ucan** (Yürütücü), “AVEA firmasıyla "GSM sistemlerinde veri kullanımının ücretlendirme algoritmalarının ve kota sistemlerinin dinamik olarak incelenmesi" projesi, T.C. Bilim, Sanayi ve Teknoloji Bakanlığı, SANTEZ Programı, 2013.
27. **Osman N. Ucan** (Danışman), “ECVET Digital Platform (Leonardo Da Vinci Projesi), 2013.
28. **Osman N. Ucan** (Düzenleme Kurulu Üyesi), “Enformasyon proje Yarışması”, 2014-2016
29. **Osman N. Ucan** (Düzenleme Kurulu Üyesi), “Robot proje Yarışması”, 2014-2016
30. **Osman N. Ucan** (Danışman), “Yaratıcı Çalışma Mekanları Aurum İç Mimarlık Öğrenci Proje Yarışması”, 2017-
31. **Osman N. Ucan** (Danışman), “Aurum Mimarlık Öğrenci Yarışması "Fütüristik Kentler", 2017-
32. **Osman N. Ucan** (Düzenleme Kurulu Üyesi), “Robot Teknolojileri Proje Yarışması”, 2017-
33. **Osman N. Ucan** (Düzenleme Kurulu Üyesi), “Uluslararası Enformatik Bilimler ve Uygulamaları Proje Yarışması”, 2017-

9. İdari Görevler

1. İstanbul Üniversitesi, Mühendislik Fakültesi, Dekan Yardımcısı
2. İstanbul Üniversitesi, Mühendislik Fakültesi, Yönetim Kurulu üyesi
3. İstanbul Üniversitesi, Mühendislik Fakültesi, Telekomünikasyon A.B.D. Başkanı
4. İstanbul Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölüm Başkan Yardımcısı
5. İstanbul Üniversitesi, Mühendislik Fakültesi, İnşaat işleri koordinatörlüğü Yardımcısı
6. İstanbul Üniversitesi, Mühendislik Fakültesi, Yayın komisyonu üyesi
7. İstanbul Üniversitesi, Mühendislik Fakültesi, İnternet Avcılar sorumlusu
8. İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Biyomedikal ABD Başkanı
9. İstanbul Aydın Üniversitesi, Mühendislik Mimarlık Fakültesi, Elektrik-Elektronik Bölüm Başkanı
10. İstanbul Aydın Üniversitesi, Mühendislik Mimarlık Fakültesi, Erasmus Koordinatörü
11. İstanbul Aydın Üniversitesi, Mühendislik Mimarlık Fakültesi, Dekan Yardımcısı
12. İstanbul Aydın Üniversitesi, Üniversite-Sanayi Koordinatörü
13. İstanbul Aydın Üniversitesi, Online Eğitim Genel Koordinatörü
14. İstanbul Aydın Üniversitesi, Mühendislik Mimarlık Fakültesi, Dekanı
15. İstanbul Aydın Üniversitesi, Mühendislik Fakültesi, Kurucu Dekanı
16. İstanbul Aydın Üniversitesi, Uluslararası öğrenci kabul ve değerlendirme komisyonu üyesi

17. Altınbaş Üniversitesi, Eğitim, Müfredat ve İtibak Komisyonu üyesi
18. Altınbaş Üniversitesi, Akademik Personel Atama, Yükseltme ve Sahihlik Komisyonu üyesi
19. Altınbaş Üniversitesi, Mühendislik ve Doğa Bilimleri, Elektrik-Elektronik Mühendisliği Bölüm Başkanı
20. Altınbaş Üniversitesi, Mühendislik ve Doğa Bilimleri Fakültesi, Dekanı
21. Altınbaş Üniversitesi, Sağlık alanında Üniversite Sanayi İşbirliği Komisyon üyesi
22. Altınbaş Üniversitesi, Stratejik Plan Takip ve Kalite Güvence Komisyonu üyesi
23. Altınbaş Üniversitesi, Uygulamalı Bilimler Fakültesi, Vekil Dekan

10. Bilimsel kuruluşlara Üyelikler

11. Ödüller

TÜBİTAK BAYG Destekleri,

Istanbul Üniversitesi-Araştırma Fonu 1999,2000, 2001, 2008,2009, 2010 destek ödülleri,

İstanbul Aydın Üniversitesi, Bilimsel Araştırma Fonu, 2013-2016 destek ödülleri,

“Yılım En Başarılı Akademik Personeli” ödülü, Altınbaş Üniversitesi, 2017-2018

“En iyi makale ödülü”, The International Conference on Data Science, E-Learning and Information Systems, Madrid 2018

GÖREV DÖNEMİ	ÜN VAN	ÜNİVERSİTE	BÖLÜM
1997-1999	Bölüm Başkan Yardımcısı	İ.Ü.	Mühendislik Fakültesi, Elektronik Müh. Bölümü
1999-2000	Bölüm Başkan Yardımcısı	İ.Ü.	Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü
2001-2004	İnşaat işleri koordinatörlüğü Yardımcısı	İ.Ü.	Müh. Fakültesi
2001-2004	Yayın komisyonu üyesi	İ.Ü.	Mühendislik Fakültesi
2001-2004	İnternet Avcılar sorumlusu	İ.Ü.	Mühendislik Fakültesi
2000-2008	Telekomünikasyon ABD Başkanı	İ.Ü.	Mühendislik Fakültesi, Elektrik-Elektronik Müh. Bölümü
2004-2006	Dekan Yardımcısı	İ.Ü.	Mühendislik Fakültesi
2005-2010	KIN (Kamu irtibat noktası)	İ.Ü.	Rektörlük
2006-2010	Ersamus/Socrates temsilcisi	İ.Ü.	Mühendislik Fakültesi, Elektrik-Elektronik Müh. Bölümü
2006-2010	Biyomedikal ABD Başkanı	İ.Ü.	İ.Ü. Fen Bilimleri Enst.
2006	Misafir Öğretim Üyesi	Orleans University-Fransa	Mühendislik Fakültesi
2007	Misafir Öğretim Üyesi	Orleans University-Fransa	Mühendislik Fakültesi
2008	Misafir Öğretim Üyesi	Budapest University-Macaristan	Mühendislik Fakültesi
2010-	Elektrik-Elektronik Müh. Bölüm Başkanı	İ.A.Ü.	Elektrik-Elektronik Müh. Böl.
2010-2011	Dekan Yardımcısı	İ.A.Ü.	Mühendislik-Mimarlık Fakültesi

2010-2012	Yönetim Kurulu Üyesi	İ.A.Ü.	Fen Bilimleri Enstitüsü
2010-2011	Yönetim Kurulu Üyesi	İ.A.Ü.	Mühendislik-Mimarlık Fakültesi
2010-2011	Disiplin Kurulu Üyesi	İ.A.Ü.	Mühendislik-Mimarlık Fakültesi
2011-2012	Dekan Vekili	İ.A.Ü.	Mühendislik-Mimarlık Fakültesi
2012-2013	Dekan	İ.A.Ü.	Mühendislik-Mimarlık Fakültesi (2013 yılında “Mühendislik-Mimarlık Fakültesi” yerine “Mühendislik Fakültesi” ve “Mimarlık ve Tasarım Fakültesi” olmak üzere iki Fakülte kurulmuştur)
2013-2016	Kurucu Dekan	İ.A.Ü.	Mühendislik Fakültesi
2013-2016	Uluslararası öğrenci Değerlendirme ve kabul komisyonu	İ.A.Ü.	Rektörlük
2016-2017	Dekan Vekili	İ.K.B.U.	Mühendislik ve Doğa Bilimleri Fakültesi
2017-2021	Dekan	A.Ü.	Mühendislik ve Doğa Bilimleri Fakültesi
2017-2022	Akademik Personel Atama, Yükseltme ve Sahihlik Komisyonu	A.Ü.	Rektörlük
2017-	Eğitim, Müfredat ve İntibak Komisyonu	A.Ü.	Rektörlük
2017-	Disiplin Kurulu Üyesi	A.Ü.	Rektörlük
2021-	Dekan Vekili	A.Ü.	Uygulamalı Bilimler Fakültesi
2022-	Elektrikli, Otonom ve İnsansız Araçlar Uygulama ve Araştırma Merkezi (AUTONOM)	A.Ü.	Danışma Kurulu Üyesi
2020-	Sigma Journal of Engineering and	YTÜ	Editör

	Natural Sciences (E-SCI)		
2001-2010	Electrica (E-SCI)	İÜ	Baş Editör
2010-	Electrica (E-SCI)	İÜ	Danışma Kurul Üyesi
2022	Teknofest	AÜ	Hakem

12. Son iki yılda Verdiğiniz Lisans ve Lisansüstü düzeydeki dersler

Akademik yıl	Ders adı	Haftalık Ders saati			Öğrenci sayısı
		Teori	uyg.	Lab.	
2015-2016	Seminer	0	3	0	50
	Seminer	0	3	0	50
	Seminer	0	3	0	50
	Bitirme Projesi I	2	4	0	10
	Bitirme Projesi II	2	4	0	15
2016-2017	Seminer	0	3	0	50
	Seminer	0	3	0	50
	Seminer	0	3	0	50
	Bitirme Projesi I	2	4	0	10
	Bitirme Projesi II	2	4	0	15

13. Diğer İş Deneyimleri

Bilimsel Aktiviteler

Görev Dönemi	Konusu
1996	IEEE International Conference on Communication Systems and IEEE International Workshop on Intelligent Signal Processing and Communication Systems, Singapore, 1996, (ICCS/ISPACS) Oturum Başkanlığı
1999-2000	IEEE Sinyal İşleme ve Uygulamaları (SIU), Organizasyon Komitesi Üyeliği
1999-2000	“Seventh International Colloquium on: Numerical Analysis and Computer with Applications”, Konferansında çağrılı konuşmacı
1999-2010	“Istanbul University- Journal of Electrical & Electronics Engineering (IU-JEEE)” dergisi Kurucusu ve Baş Editörü (2005 yılından itibaren Engineering Index tarafından taranmaktadır)
2001	“Recent Researches on Electronics and Earth Sciences International Conference (RREESC’2001)” konferansı Kurucu Başkanı
2002	“Turkish Artificial Intelligence and Neural Network Conference (TAINN’2002)”, Teknik Program Başkanı
2002	“International Conference on Electrical and Electronics Engineering, (ELECO’2002)” Konferansı Danışma Kurulu üyesi

2002	“Union Radio Science International (URSI’2002)” Konferansı Teknik Komite üyesi
2002	“International Conference on Earth Sciences and Electronics (ICESE’2002)”konferansı Kurucusu ve Başkanı
2003	“Elektrik-Elektronik-Bilgisayar Mühendisliği 10. Ulusal Kongresi”,oturma başkanlığı
2003	Recent Advances in Space Technologies (RAST)” Uluslararası program komite üyesi
2003	“International Conference on Earth Sciences and Electronics (ICESE’2003) ” konferansı eş Başkanı
2003	“İstanbul Üniversitesi, Mühendislik Fakültesi, Araştırma görevlileri konseyi”, oturma başkanı
2003	Recher Kablo Ltd. Danışman (KOSGEB)
2003	“Applied Automatic Systems (AAS’2003)”, Uluslararası Program komite üyesi
2004	Havacılıkta İleri Teknolojiler ve Uygulamaları Sempozyumu, (HITEK)”Düzenleme komitesi üyesi
2005	Hydrogen Energy Conference, Uluslararası program komite üyesi
2005	Havacılıkta İleri Teknolojiler ve Uygulamaları Sempozyumu, (HITEK)”Düzenleme komitesi üyesi
2005	TMT, Uluslararası program komite üyesi
2006	Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu (ASYU) Bilim Kurulu üyesi
2009	IV. International Workshop on Applications of Wavelets to real world problems, (IWW 2009), Bilim kurulu üyesi,Eğitim program eş başkanı
2010	V. International Symposium on wavelet applications to world problems, (IWW 2010) Başkan yardımcısı
2010-2016	İstanbul Aydın Üniversitesi Elektrik-Elektronik Mühendisliği Bölüm Başkanlığı
2010-2016	“International Journal of Electronics, Mechanical and Mechatronics Engineering (IJEMME)” dergisi kurucusu ve Baş Editörü (EBSCO ve DOAJ tarafından taranmaktadır.)
2010-2016	İstanbul Aydın Üniversitesi Dergisi (IAÜD), Baş Editörü (EBSCO ve DOAJ tarafından taranmaktadır.)
2001-2010	“İstanbul University- Journal of Electrical & Electronics Engineering (IU-JEEE)” dergisi Kurucusu ve bilim kurulu üyesi (2020 yılından itibaren ELECTRA adıyla E-SCI olmuştur)
2010-	ELECTRA dergisi bilim kurul üyesi
2010-	İstanbul Aydın Üniversitesi, Anadolu Bil Meslek Yüksekokulu Dergisi Hakem kurulu üyesi
2011	Yeni Nesil LED Aydınlatma Ar-Ge ve Ölçüm Laboratuvarı” kurulumunda görev alma
2012	“Conference on Image Processing Theory, Tools and Applications (IPTA), IEEE” Konferansı, Düzenleme Kurulu üyesi
2012	“VI. International Workshop on Applications of Wavelets to real world problems”, Bilim kurulu üyesi, Eğitim program eş başkanı
2012	“Persavive Computing and Networked World, ICPCA/SWS”, Düzenleme Kurulu üyesi
2012	İstanbul Aydın Üniversitesi Teknoloji Transfer Ofisi, kurulumunda görev alma
2012	“I. Enformasyon teknolojileri proje yarışması”, kurucu ve Düzenleme Kurulu Üyesi
2012	“I. Robot proje yarışması”, kurucu ve Düzenleme Kurulu Üyesi
2013	“II. Enformasyon teknolojileri proje yarışması”, kurucu ve Düzenleme Kurulu Üyesi

2013	“II. Robot proje yarışması”, kurucu ve Düzenleme Kurulu Üyesi
2014	BM Düzenlenen IGF (Internet Governance Forum) Oturum Başkanlığı
2014	“III. Enformasyon teknolojileri proje yarışması”, kurucu ve Düzenleme Kurulu Üyesi
2014	“III. Robot proje yarışması”, kurucu ve Düzenleme Kurulu Üyesi
2015-2016	International Journal of Food Engineering Research (IJFER) Dergisi Kurucu ve Baş Editörü
2015	“Gıda Mühendisliği 6. Öğrenci Kongresi”, organizasyon kurulu üyesi
2015	Yrd.Doç. Dr. Yavuz Dizdar’ın sunduğu “Yediklerimiz Gerçek mi?” semineri düzenleme kurul üyesi
2015-2016	“International Journal of Civil, Industrial and Food Engineering (IJCIFE)” kurucu ve Editörü
2015	“IV. Enformasyon teknolojileri proje yarışması”, kurucu ve Düzenleme Kurulu Üyesi
2015	“IV. Robot proje yarışması”, kurucu ve Düzenleme Kurulu Üyesi
2015	Deniz Atakay’ın sunduğu "Gıda Kaynaklı Hastalıklar: Fenilketonüri Hastalığı" semineri düzenleme kurul üyesi
2015	“VII. Uluslararası Katılımlı Atmosfer Bilimleri Sempozyumu”, Başkan Yardımcısı
2015	“World Conference on Big Data”Düzenleme kurul üyesi
2015-	Balkan Journal of Electrical & Computer Engineering, Bilim Kurulu Üyesi
2015-	Kırklareli Üniversitesi Mühendislik ve Fen Bilimleri Dergisi, Bilim Kurulu Üyesi
2015-2016	İstanbul Aydın Üniversitesi, Yabancı Dil Eğitimi Yeterlilik Kurul Üyeliği
2015	Aydınlatma Sektöründeki Teknolojik Gelişmeler ve Aydınlik Fikirler Proje Pazarı Düzenleme Komitesi Üyeliği
2016-	Mühendislik Dekanlar Konseyi (MDK) Fakülte/Program Açılmasına İlişkin Standartlar Çalışma Grubu Üyesi
2016	Bölüm, Ders İçerik, ve Öğretim üyesi kalitesini bakımından Mühendislik Fakültesi Bölümlerini Değerlendirme ve Belgelendirme Kuruluşu Mühendislik Eğitim Programları Değerlendirme ve Akreditasyon Derneği (MÜDEK) tarafından Gıda Mühendisliği Akreditasyon alınmasında yönetici olma
2016	Bölüm, Ders İçerik, ve Öğretim üyesi kalitesini bakımından Mühendislik Fakültesi Bölümlerini Değerlendirme ve Belgelendirme Kuruluşu Mühendislik Eğitim Programları Değerlendirme ve Akreditasyon Derneği (MÜDEK) tarafından Endüstri Mühendisliği Akreditasyon alınmasında yönetici olma
2016	Bölüm, Ders İçerik, ve Öğretim üyesi kalitesini bakımından Mühendislik Fakültesi Bölümlerini Değerlendirme ve Belgelendirme Kuruluşu “European Accreditation of Engineering Programmes (EUR-ACE)” , İstanbul Aydın Üniversitesi Mühendislik Fakültesi Gıda Mühendisliği akreditasyonunda yönetici olma
2016	Bölüm, Ders İçerik, ve Öğretim üyesi kalitesini bakımından Mühendislik Fakültesi Bölümlerini Değerlendirme ve Belgelendirme Kuruluşu “European Accreditation of Engineering Programmes (EUR-ACE)” , İstanbul Aydın Üniversitesi Mühendislik Fakültesi Gıda Mühendisliği akreditasyonunda yönetici olma
2016	“V. Enformasyon teknolojileri proje yarışması”, kurucu ve Düzenleme Kurulu Üyesi
2016	“V. Robot proje yarışması”, kurucu ve Düzenleme Kurulu Üyesi

2016-	“AURUM-Journal of Engineering Systems and Architecture (A-JESA)” kurucu ve Baş Editörü
2016-	“Mühendislik ve Doğa Bilimleri” e-Bulten, kurucu ve yayın kurulu üyesi
2017-	“Yaratıcı Çalışma Mekanları Aurum İç Mimarlık Öğrenci Proje Yarışması” kurucu ve jüri üyesi
2017-	“Aurum Mimarlık Öğrenci Yarışması: Fütüristik Kentler”, kurucu ve jüri üyesi
2017-	“AU Robot Teknolojileri Proje Yarışması”, kurucu ve jüri üyesi
2017-	“AU Uluslararası Enformatik Bilimler ve Uygulamaları Proje Yarışması” kurucu ve jüri üyesi
2017	IEEE Conference on ICET2017, Antalya ,Turkey, İcra Komitesi üyesi
2017	The 9th International Symposium on Image Processing, Wavelet and Applications (IWW2017) Başkan Yardımcısı
2017	Altınbaş Üniversitesi, yılın en başarılı akademisyen ödülü
2018	IEEE Conference on ICEMIS 2018, Istanbul, Turkey, İcra Komitesi üyesi
2018	En iyi Araştırma ödülü –IARES org -DATA 2018
2018	9th World Conference on Information Technology, Konferans Başkanı
2018-	AÜ Etik Kurul Komisyon üyeliği
2018-	AÜ Eğitim, Müfredat ve İtibak Komisyonu üyeliği
2018-	AÜ Akademik Personel atama-Yükseltme ve Sahihlik Komisyon üyeliği
2018-	AÜ Sağlık Alanında Üniversite-Sanayi İşbirliği Komisyonu üyeliği
2018-	AÜ İş Sağlığı ve Güvenliği Birimi Yönetim Kurulu Üyesi
2019-	MÜDEK Başvurusunda yönetici olma (Elektrik-Elektronik, İnşaat, Makine, Endüstri, Bilgisayar Müh.)
2019-	MİAK Başvurusunda yönetici olma (Mimarlık)
2019-	EVA Elektrikli Araç Projesi Danışma Kurulu üyesi
2019-	Bölüm, Ders İçerik, ve Öğretim üyesi kalitesini bakımından Mühendislik Fakültesi Bölümlerini Değerlendirme Kuruluşu “ European Accreditation of Engineering Programmes (EUR-ACE) ”, Mühendislik ve Doğa Bilimleri Fakültesi (Elektrik-Elektronik, İnşaat, Makine, Endüstri, Bilgisayar Müh.) akreditasyonunda yönetici olma
2020	Altınbaş Üniversitesi, yılın en başarılı akademisyen ödülü
2021-	Bölüm, Ders İçerik, ve Öğretim üyesi kalitesini bakımından Mühendislik Fakültesi Bölümlerini Değerlendirme Kuruluşu “ European Accreditation of Engineering Programmes (EUR-ACE) ”, Bölüm başkanı olarak Mühendislik ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği akreditasyonunun alınması
2022	International Conference on Engineering&MIS 2022-Organizasyon Komitesi Üyeliği
2022-	AURUM Sağlık Bilimleri Dergisi Baş Editörü
2022-	Uluslararası Danışma Kurul üyeliği “Bukreş Ekonomi Çalışmaları Üniversitesi-Advanced Research Institute”
2022-	Mühendislik Mimarlık Fakültesi Yönetim Kurulu Üyesi
2022-	Sürekli Eğitim Merkezi Yönetim Kurulu Üyesi

Profesyonel Kurslar

Diğer

Hakemlikler:

IEEE Neural Network Signal Processing Transactions, IEE Communications Journal, IEEE Transaction on Communications, IEEE Communication Magazine, IEEE Industrial Electronics, IEEE Access dergilerinde hakemlik, Expert Systems With Applications

Patentler:

- Serkan Kurt, Raşit Cevizci, Osman Nuri Uçan, “Sağır ve Körler için Akım Modlu Yüzeysel Elektrot ile Çevre Seslerini Hissetme Cihazı”, kabul edildi
- Cahit Karakuş, Çağatay Aydın, Doğu Çağdaş Atilla, Oğuz Bayat, Osman Nuri Uçan, Maigalisa Yohanna,” İnsansız Hava Araçları İçin Kablosuz Enerji Transfer İstasyonu” inceleme aşamasında
- Osman Nuri Uçan, Oğuz Bayat, Cahit Karakuş, Mehmet Fatih Erel, Çağatay Aydın, Broadband Radiating Monopole Crescent Antenna, kabul edildi

h-endeksi=26, i10_{endeksi}=74, Alıntılar (atıf sayısı) =2696 (Google Scholar)

Düzenleme Tarihi: Kasım 2022