



## Prof. Dr. OSMAN NURİ UÇAN

Mahmutbey Technology Campus

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osman.ucan@altinbas.edu.tr

### EDUCATIONAL INFORMATION

Degree	University	Department	Year(s)
Doctoral Degree	Istanbul Technical University	Electronics and Communications Engineering (ph.d.)	1991 - 1995
Master's Degree	Istanbul Technical University	Department of Electronics and Communications Engineering	1985 - 1988
Bachelor's Degree	Istanbul Technical University	Department of Electronics and Communications Engineering	1980 - 1985

### RESEARCH AREAS

### ACADEMIC DUTIES

Duty	University	Area	Year(s)
Professor	Altinbas University	Department of Electrical and Electronics Engineering	2016 -
Professor	Istanbul Aydin University	Department of Electrical and Electronics Engineering	2010 - 2016
Professor	Istanbul University	Electronics Engineering Department	2004 - 2010
Associate Professor	Istanbul University	Electronics Engineering Department	1998 - 2004
Assistant Professor	Istanbul University	Electronics Engineering Department	1997 - 1999
Research Assistant	Istanbul Technical University	Department of Electronics and Communication Engineering	1986 - 1996

### ADMINISTRATIVE DUTIES

Duty	University	Year(s)
Commission Chairmanship	Altinbas University	2024 -
Faculty Executive Board Member of Engineering and Architecture Faculty	Altınbaş University	2024 -
Faculty Executive Board Member of Communication Faculty	Altınbaş University	2024 -
Faculty Board Member of Communication Faculty	Altınbaş University	2024 -
Faculty Executive Board Member of Fine Arts and Design Faculty	Altınbaş University	2024 -
Faculty Board Member of Fine arts and Design Faculty	Altınbaş University	2024 -
Dean	Altinbas University	2021 - 2024
Head of Department	Altinbas University	2016 - 2024
Dean	Altinbas University	2016 - 2020
Dean	Istanbul Aydin University	2012 - 2016

Vice Dean	Istanbul Aydın University	2010 - 2012
Head of Department	Istanbul University	2006 - 2010
Deputy Head of Department	Istanbul University	1997 - 2000
Vice Dean	Istanbul University	1997 - 1999

## ACADEMIC AND PROFESSIONAL MEMBERSHIPS

Organisation	Membership	Year(s)
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## NON-UNIVERSITY EXPERIENCE

Country	Organisation	Duty	Year(s)
Turkey	Netaş	Independent Board Mamber	2024 -

## BOOKS

### ECVET Digital Platform Leonardo Da Vinci Projesi

UÇAN OSMAN NURİ

Avrupa Birliği Projesi, European Project, 2013

Book Translation [All](#)

### Contemporary coding techniques and applications for mobile communications

Onur Osman, Osman N. Ucan

Taylor and Francis, ISBN 978-1-4200-5461-3, 2009

Scientific Book [All](#)

### Görüntü işleme teknikleri ve Mühendislik Uygulamaları

Osman N. Ucan, Onur Osman, A. Muhittin Albora

Nobel Yayın, ISBN 9944-77-051-5, 2006

Scientific Book [All](#)

### Haberleşme Teorisi ve Mühendislik Uygulamaları

Osman N. Ucan, Onur Osman

Nobel Yayın, ISBN 9944-77-039-6, 2006

Scientific Book [All](#)

### Blind Equalization of Quadrature Partial Response Trellis Coded Modulated Signals in Rician Fading

Osman N. Ucan, Hakan A. Cirpan

Springer Verlag, ISBN 3- 540-67850-6, 2001

Scientific Book [Chapter\(s\)](#)

### Performance of Combined Trellis Coded Quantization Modulation over Wireless Local Loop Environment

Osman N. Ucan, M. Uysal, S. Paker

John Wiley and Sons Ltd. Publications, ISBN 0471 49746 7, 2001

Scientific Book [Chapter\(s\)](#)

### Diagnosis of neurological disorders based on deep learning techniques

Saif Al-Jumali, Athar Alazzawi, Osman Nuri Uçan, Adil Deniz Duru

Taylor and Francis, 978103232523, 2023

Scientific Book [Chapter\(s\)](#)

### Time-Frequency Analysis in Biomedical Engineering/Deep Learning-Based Epileptic Seizure Classification in Neonates Using STFT-Transformed EEG Signals

S Al-Jumaili, AAM Salam Alyassri, AD Duru, ON Uçan

Taylor and Francis, 9781003611448, 2026

Scientific Book [Chapter\(s\)](#)

**ARTICLES****Evaluation of Deep Transfer Learning Methodologies on the COVID-19 Radiographic Chest Images**

Al-azzawi Athar, Al-jumaili Saif, Duru Adil Deniz, Göksel Duru Dilek, Uçan Osman Nuri

TRAITEMENT DU SIGNAL, 2023

[International](#) DOI: 10.18280/ts.400201**Secure banking and international trade digitization using blockchain**

Hameed Alsalmi Muhammed Sabah, UÇAN OSMAN NURİ

Optik, 2023

[International](#) DOI: 10.1016/j.ijleo.2022.170269**Fully automatic liver and tumor segmentation from CT image using an AIM-Unet**

ÖZCAN FIRAT, UÇAN OSMAN NURİ, KARAÇAM S., DUYGU T.

BIOENGINEERING, 2023

[International](#) DOI: 10.3390/bioengineering10020215**YOLO-V3 based real-time drone detection algorithm**

Alsanaad Hamid R., Sadik Amin Z, UÇAN OSMAN NURİ, ILYAS MUHAMMAD, BAYAT OĞUZ

Multimedia Tools and Applications, 2022

[International](#) DOI: 10.1007/s11042-022-12939-4**Indonesian Journal of Electrical Engineering and Computer Science**

Jameel Mahdi Abdullah, Mazher Wamidh Jalil, UÇAN OSMAN NURİ

Indonesian Journal of Electrical Engineering and Computer Science, 2021

[International](#) DOI: 10.11591/ijeecs.v23.i2.pp918-926**An Efficient and Reliable Routing Method for Hybrid Mobile Ad Hoc Networks Using Deep Reinforcement Learning**

Alkadhmi Murtadha M. A., UÇAN OSMAN NURİ, ILYAS MUHAMMAD

Applied Bionics and Biomechanics, 2020

[International](#) DOI: 10.1155/2020/8888904**Real-Time Fuel Truck Detection Algorithm Based on Deep Convolutional Neural Network**

Alsanaad Hamid R, UÇAN OSMAN NURİ, ILYAS MUHAMMAD, Rehman Atta Ur, BAYAT OĞUZ

IEEE Access, 2020

[International](#) DOI: 10.1109/ACCESS.2020.3005391**Classification of Resting-State Status Based on Sample Entropy and Power Spectrum of Electroencephalography (EEG)**

Mohamed Ahmed, UÇAN OSMAN NURİ, BAYAT OĞUZ, DURU ADİL DENİZ

APPLIED BIONICS AND BIOMECHANICS, 2020

[International](#) DOI: 10.1155/2020/8853238**Mammographical mass detection and classification using Local Seed Region Growing Spherical Wavelet Transform LSRG SWT hybrid scheme**

Gorgel Pelin, Sertbas Ahmet, Ucan Osman N

COMPUTERS IN BIOLOGY AND MEDICINE, 2013

[International](#) DOI: 10.1016/j.combiomed.2013.03.008**A New Method for 3D Thinning of Hybrid Shaped Porous Media Using Artificial Intelligence Application to Trabecular Bone**

Jennane Rachid, Aufort Gabriel, Benhamon Claude Laurent, Ceylan M , Ozbay Y , Ucan ON

JOURNAL OF MEDICAL SYSTEMS, 2012

[International](#)**Cooperative communications with multilevel AES SD4 CPFSK in wireless sensor networks**

Cam Hakan, Ozduran Volkan, Altay Gokmen, Osman N. Ucan,

ANNALS OF TELECOMMUNICATIONS-ANNALES DES TELECOMMUNICATIONS, 2011

[International](#)

## ARTICLES

### **Multilevel AES LDPCC CPFSSK with channel equalization over WSSUS multipath environment**

Cam Hakan, Ucan Osman N., Ozduran Volkan

AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, 2011

International

### **Application of cellular neural network CNN to the prediction of missing air pollutant data**

Sahin Ulku Alver, Bayat Cuma, Ucan Osman N.

ATMOSPHERIC RESEARCH, 2011

International

### **A novel method for lung segmentation on chest CT images complex valued artificial neural network with complex wavelet transform**

Ceylan M., Ozbay Y., Ucan ON., Yildirim E.,

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, 2010

International

### **3D Image Analysis and Artificial Intelligence for Bone Disease Classification**

Akgundogdu A, Jennane R, Aufort G, Benhamou CL, Ucan ON

JOURNAL OF MEDICAL SYSTEMS, 2010

International

### **Comparison of discrete wavelet and complex wavelet transform in hybrid skeletonization based on CVANN**

Murat Ceylan, Osman Nuri Ucan, Yuksel Ozbay, Rachid Jennane, Gabriel Aufort, Claude Laurent Benhamou

Fen Bilimleri Dergisi (IAU-FBD), 2010

National

### **Hermitian transform approach in classification of ECG signals**

Olcay Akbulut Kurus, Niyazi Kilic, Osman N. Ucan

Fen Bilimleri Dergisi (IAU-FBD), 2010

National

### **Automatic isocontour determination for iodine dose calculation using cellular neural networks on scintigraphic images**

Roger Lédée, Fabien Courrèges, Rachid Harba, Onur Osman, Osman N.Ucan

INTERNATIONAL JOURNAL OF ELECTRONICS, MECHANICAL and MECHATRONICS ENGINEERING, 2010

International

### **A Comparative Study of Breast Mass Classification based on Spherical Wavelet Transform using ANN and KNN Classifiers**

UÇAN OSMAN NURİ

INTERNATIONAL JOURNAL OF ELECTRONICS, MECHANICAL and MECHATRONICS ENGINEERING, 2010

International

### **An artificial neural network based model for short term predictions of daily mean PM10 concentrations**

UÇAN OSMAN NURİ

JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, 2010

International

### **A Wavelet Based Mammographic Image Denoising and Enhancement with Homomorphic Filtering**

UÇAN OSMAN NURİ

JOURNAL OF MEDICAL SYSTEMS, 2010

International

### **Mammographic Mass Detection using Wavelets as Input to Neural Networks**

Kilic Niyazi, Gorgel Pelin, Ucan Osman N., et al., n

JOURNAL OF MEDICAL SYSTEMS, 2010

International

### **Diagnosis of Renal Failure Disease Using Adaptive Neuro Fuzzy Inference System**

Akgundogdu Abdurrahim, Kurt Serkan, Kilic Niyazi, Osman N. Ucan

JOURNAL OF MEDICAL SYSTEMS, 2010

International

## ARTICLES

### **Evaluation of face recognition techniques using PCA wavelets and SVM**

UÇAN OSMAN NURİ

Expert Systems with Applications, 2010

International

### **Classification of the Colonic Polyps in CT Colonography Using Region Covariance as Descriptor Features of Suspicious Regions**

Kilic N, Kursun O, Osman N. Ucan

Journal of Medical Systems, 2010

International

### **Performance of joint multilevel AES LDPCC CPFSK schemes over wireless sensor networks**

Cam H, Osman N. Ucan, Odabasioglu N, Sonmez AC

International Journal of Communication Systems, 2010

International

### **Power transformer fault type estimation using artificial neural network based on dissolved gas in oil analysis**

Gunes Ibrahim, Gozutok Abdulkadir, Ucan Osman Nuri, et al.,

ENGINEERING INTELLIGENT SYSTEMS FOR ELECTRICAL ENGINEERING AND COMMUNICATIONS, 2009

International

### **Separation of original paintings of Matisse and his fakes using wavelet and artificial neural networks**

Baybora Temel, Niyazi Kilic, Bunyamin Ozgultekin, Osman N. Ucan,

Journal of Electrical &Electronics (IU-JEEE), 2009

National

### **Causal Representation Learning for Joint Modeling and Mitigation of Coupled RF Impairments in MIMO Systems**

MWM Al-Dulaimi, ON Ucan

Electronics, 2026

International DOI: <https://doi.org/10.3390/electronics15061289>

### **Mammographic mass classification using wavelet based support vector machine**

Pelin Görgel, Ahmet Sertbas, Niyazi Kilic, Osman N. Ucan, Onur Osman

Istanbul University-Journal of Electrical &Electronics (IU-JEEE), 2009

National

### **Colon segmentation and colonic polyp detection using cellular neural Networks and three dimensional template matching**

UÇAN OSMAN NURİ

Expert Systems, 2009

International

### **A Backpropagation Neural Network Approach For Ottoman Character Recognition**

Gorgel P, Kilic N, Ucan B, Osman N. Ucan, Kala A

Intelligent Automation and Soft Computing, 2009

International

### **Estimation of Stream Temperature in Degirmendere River Trabzon Turkey Using Artificial Neural Network Model**

Sivri N, Ozcan HK, Osman N. Ucan, Akincilar O.

Turkish Journal of Fisheries And Aquatic Sciences, 2009

International

### **Colon segmentation and colonic polyp detection using cellular neural networks and three dimensional template matching**

Kilic N, Osman N. Ucan, Osman O

Expert Systems, 2009

International

### **Determination of relationship between hardness and groundwater quality parameters by neural networks**

Balkaya N, Ozcan HK, Osman N. Ucan

Desalination And Water Treatment, 2009

International

## ARTICLES

### **Multilevel turbo coded continuous phase frequency shift keying MLTC CPFSK**

Odabasioglu N, Osman N. Ucan

Computers & Electrical Engineering, 2009

International

### **Markov random field image processing applications on ruins of the Hittite Empire**

UÇAN OSMAN NURİ

Near Surface Geophysics, 2009

International

### **Evaluation of Trace Element Concentrations in Groundwater and Classification of Endemic Disease Regions using Multilayer Perceptron Neural Network**

Sahmurova A, Kilic N, Okan I, Osman N. Ucan, et al.

Journal of Residuals Science & Technology, 2009

International

### **Modeling of Methane Distribution in a Landfill Using Genetic Algorithms**

UÇAN OSMAN NURİ

Environmental Engineering Science, 2009

International

### **Ship Waste Forecasting at the Botas LNG Port Using Artificial Neural Networks**

Satir T, Demir H, Alkan GB, Osman N. Ucan, et al.

Fresenius Environmental Bulletin, 2008

International

### **Nodule detection in a lung region that s segmented with using genetic cellular neural networks and 3D template matching with fuzzy rule based thresholding**

Ozekes S, Osman O, Osman N. Ucan

Korean Journal of Radiology, 2008

International

### **Signalling enhancement on multilevel turbo codes**

Bayat O, Shafai B, Salehi M, Osman N. Ucan, et al.

International Journal of Communication Systems, 2008

International

### **Joint Multilevel Turbo Equalization and Continuous Phase Frequency Shift Keying**

Bayat O, Odabasioglu N, Osman O, Osman N. Ucan, et al.,

Eurasip Journal on Wireless Communications and Networking, 2008

International

### **Breast MR segmentation and lesion detection with cellular neural networks and 3D template matching**

Ertas G, Gulcur HO, Osman O, Osman N. Ucan, et al.,

Computers in Biology and Medicine, 2008

International

### **A preliminary study on computerized lesion localization in MR mammography using 3D nMITR maps multilayer cellular neural networks and fuzzy c partitioning**

Ertas G, Gulcur HO, Tunaci M, Osman N. Ucan, et al.,

Medical Physics, 2008

International

### **Performance of the systematic distance 4 codes over fading channels**

Osman N.Ucan, Tayfun Acarer, Ertuğrul Karacuha, Onur Osman, Gökmen Altay, Şenay Yalcın,

Journal of Electrical & Electronics (IU-JEEE), 2008

National

## ARTICLES

### **Adaptive Wiener Turbo system and adaptive Wiener Turbo systems with JPEG Bit plane compression**

Kenan Büyükkatak, Osman N.Ucan, Ersin Göse, Onur Osman, Sedef Kent  
Istanbul University-Journal of Electrical &Electronics (IU-JEEE), 2007

National

### **Automatic colon segmentation using cellular neural network for the detection of colorectal polyps**

Niyazi Kılıc, Onur Osman, Osman N. Ucan, Kemal Demirel  
Istanbul University-Journal of Electrical &Electronics (IU-JEEE), 2007

National

### **A new approach for border detection of the Dumluca Turkey iron ore area Wavelet cellular neural networks**

Albora AM, Bal A, Osman N. Ucan  
Pure and Applied Geophysics, 2007

International

### **Tectonic modeling of Konya Beysehir Region Turkey using cellular neural networks**

UÇAN OSMAN NURİ  
Annals of Geophysics, 2007

International

### **Modeling of trophospheric ozone concentrations using genetically trained multi level cellular neural networks**

Ozcan HK, Bilgil E, Sahin U, Osman N. Ucan, Bayat C  
Advances in Atmospheric Sciences, 2007

International

### **Novel convolutional neural network for bacterial identification of confocal microscopic datasets**

Ahmed Al-Jumaili, Saif Al-Jumaili, Salam Alyassri, Adil Deniz Duru, Osman Nuri Uçan, Mohan V Jacob, Frederico Branco, Paulo Jorge Coelho, Ivan Miguel Pires  
Scientific Reports, 2026

International DOI: <https://doi.org/10.1038/s41598-026-38861-5>

### **Lung nodule diagnosis using 3D template matching**

Osman O, Ozekes S, Osman N. Ucan  
Computers in Biology and Medicine, 2007

International

### **Forward modeling with forced neural networks for gravity anomaly profile**

UÇAN OSMAN NURİ  
Mathematical Geology, 2007

International

### **Maximum stream temperature estimation of Degirmendere River using artificial neural network**

Karacor AG, Sivri N, Osman N. Ucan  
Journal of Scienific & Industrial Research, 2007

International

### **Modelling potential field sources in the Gelibolu Peninsula Western Turkey using a Markov Random Field approach**

Albora AM, Osman N. Ucan, Aydogan D  
Pure And Applied Geophysics, 2007

International

### **Performance of low density parity check coded continuous phase frequency shift keying LDPC CPFSK over fading channels**

Hekim Y, Odabasioglu N, Osman N. Ucan  
International Journal of Communication Systems, 2007

International

## ARTICLES

### **Channel parameter estimation for turbo trellis coded modulation in OFDM systems**

Osman N. Ucan, Osman O

Journal of Communications Technology and Electronics, 2007

International

### **Estimation of stream temperature in Firtina Creek Rize Turkiye using artificial neural network model**

Sivri N, Kilic N, Osman N. Ucan

Journal of Environmental Biology, 2007

International

### **Computer network optimization using genetic algorithm**

Olcay Akbulut, Onur Osman, Osman N.Ucan

Istanbul University-Journal of Electrical &Electronics (IU-JEEE),, 2006

National

### **Evaluation of tectonic structure of Iskenderun Basin Turkey using steerable filters**

Albora AM, Sayin N, Osman N. Ucan

Marine Geophysical Researches, 2006

International

### **Heuristic construction of high rate linear block codes**

Altay G, Osman N. Ucan

AEU-International Journal of Electronics and Communications, 2006

International

### **A new approach for residual gravity anomaly profile interpretations Forced Neural Network FNN**

Osman O, Albora AM, Osman N. Ucan

Annals of Geophysics, 2006

International

### **Geometric augmented product codes**

Altay G, Osman N. Ucan, Ugurdag HF

IEE Proceedings-Communications, 2006

International

### **Performance of multilevel turbo codes with blind non blind equalization over WSSUS multipath channels**

UÇAN OSMAN NURİ

International Journal of Communication Systems, 2006

International

### **Separation of magnetic field data using the differential Markov random field DMRF approach**

Albora AM, Osman N. Ucan

Geophysics, 2006

International

### **Artificial neural network modeling of methane emissions at Istanbul Kemerburgaz Odayeri landfill site**

Ozcan HK, Osman N. Ucan, Sahin U, Borat M, Bayat C.,

Journal of Scientific & Industrial Research, 2006

International

### **Modeling of SO2 istribution in Istanbul Using Artificial Neural Network**

UÇAN OSMAN NURİ

Environmental Modelling and Assessment, 2005

International

### **2D image transmission using Kalman Turbo systems**

Niyazi Odabaşoğlu, A. Korhan Taç, Osman N.Ucan

Istanbul University-Journal of Electrical &Electronics (IU-JEEE),, 2005

National

## ARTICLES

### **Iterative decoding of geometric product codes**

Gökmen Altay, Osman N.Ucan

Istanbul University-Journal of Electrical &Electronics (IU-JEEE), 2005

National

### **Performance of multilevel turbo codes with group partitioning over satellite channels**

Osman O, Osman N. Ucan, Odabasioglu N

IEE Proceedings-Communications, 2005

International

### **Potential anomaly separation and archeological site localization using genetically trained multi level cellular neural networks**

Bilgili E, Goknar IC, Albora AM, Osman N. Ucan, et al.

ETRI Journal, 2005

International

### **Cellular neural network with trapezoidal ctivation function**

Bilgili E, Goknar IC, Osman N. Ucan

International Journal of Circuit Theory And Applications, 2005

International

### **Blind Equalization of Turbo Trellis Coded Partial Response Continuous Phase Modulation signalling over narrow band Rician fading channel**

UÇAN OSMAN NURİ

IEEE Transaction on Wireless Communications (ToW), 2005

International

### **A new approach to the structural features of the Aegean Sea Cellular neural network**

UÇAN OSMAN NURİ

Marine Geophysical Researches, 2005

International

### **Modeling of CO Distribution in Istanbul Using Artificial Neural Network**

Ulku Sahin, Osman N. Ucan, Burcu Soyhan, Cuma Bayat

Fresenius Environmental Bulletin, 2004

International

### **Blind Equalization of space time turbo trellis coded continuous phase modulation over Rician fading channels**

Osman N. Ucan, Onur Osman

European Transaction on Telecommunications, 2004

International

### **Concatenation of space time block codes and turbo trellis coded modulation ST TTCM over Rician fading channel with imperfect phase reference**

Osman N. Ucan, Onur Osman

International Journal of Communication Systems, 2004

International

### **Application of wavelet transform to magnetic data due to ruins of Hittite civilization of Turkey**

A.Muhittin Albora, Z.M. Hisarli, Osman N. Ucan

Pure and Applied Geophysics, 2004

International

### **Trellis coded quantization trellis coded continuous phase modulation over Rician channel with imperfect phase reference**

UÇAN OSMAN NURİ

European Transactions On Telecommunications, 2004

International

## ARTICLES

### **Performance of transmit diversity turbo trellis coded modulation TD TCM over genetically estimated WSSUS MIMO channels**

Gose E, Pastaci H, Osman N. Ucan, et al.,  
Frequenz, 2004  
[International](#)

### **Magnetic anomaly separation using Genetic Cellular Neural Networks**

Osman N. Ucan, Erdem Bilgili, M. Albora  
Journal of the Balkan Geophysical Society, 2002  
[International](#)

### **Repeating Space Time codes for Turbo Trellis Modulation**

Osman N. Ucan, Onur Osman, Omer Erkan  
Acta Tehnica Napocensis, 2002  
[International](#)

### **Turbo coded signals over wireless local loop environment**

Osman N. Ucan, Onur Osman, S. Paker  
International Journal of Electronics and Communications, 2002  
[International](#)

### **Comments on the Gravity and Magnetic Anomalies of Saros Bay using Wavelet approach**

Osman N. Ucan, A. Muhittin Albora, Z. Mümtaz Hisarlı  
Marine Geophysics, 2001  
[International](#)

### **Blind equalization of quadrature partial response trellis coded modulated signals in Rician fading**

Hakan A. Cirpan, Osman N. Ucan  
International Journal of Satellite Communications, 2001  
[International](#)

### **Trellis Coded Quantization Modulation over Rician Fading Channel**

UÇAN OSMAN NURİ  
International Journal of Applied Mathematics, 2001  
[International](#)

### **Evaluation of Akdag Iron Ore Reserves using Differential Markov Random Field DMRF**

Osman N. Ucan, A. Muhittin Albora  
Journal of The Balkan Geophysical Society, 2001  
[International](#)

### **Residual Separation of magnetic fields using a Cellular Neural Network Approach**

A. Muhittin Albora, Atilla Ozmen, Osman N. Ucan  
Pure Applied Geophysics, 2001  
[International](#)

### **Separation of Bouguer anomaly map using cellular neural network**

A. Muhittin Albora, Osman N. Ucan, Atilla Ozmen, Tulay Ozkan  
Journal of Applied Geophysics, 2001  
[International](#)

### **Separation of magnetic fields in geophysical studies using 2 D multi resolution Wavelet analysis approach**

Osman N. Ucan, Serhat Seker, A. Muhittin Albora, Atilla Ozmen  
Journal of the Balkan Geophysical Society, 2000  
[International](#)

### **Performance of Combined Trellis Coded Quantization Modulation over Wireless Local Loop Environment**

Osman N. Ucan, Murat Uysal, Selcuk Paker  
International Journal of Communications, 2000  
[International](#)

## ARTICLES

### **Jitter Performance of Neural Network Equivalent MPSK Schemes Over Microwave Channels**

Osman N. Ucan, Serhat Seker, Selcuk Paker  
International Journal of Communication Systems, 1998  
[International](#)

### **Trellis Coded Quantization Modulation over Mobile Satellite Channel with Imperfect Phase Reference**

UÇAN OSMAN NURİ  
International Journal of Satellite Communications, 1998  
[International](#)

### **Performance Analysis of Modified Quadrature Partial Response Trellis Coded Modulation M QPR TCM Systems**

UÇAN OSMAN NURİ  
European Transaction on Telecommunications, 1997  
[International](#)

### **Jitter and Error Performance Analysis of Trellis Coded M PSK over Partial Response Fading Channel**

UÇAN OSMAN NURİ  
Electronic Letters, 1996  
[International](#)

### **Error Performance Analysis of Quadrature Partial Response Trellis Coded Modulation QPR TCM in Fading Mobile Satellite Channels**

Erdal Panayirci, Umit Aygolu, Osman N. Ucan  
IEEE Transactions on Communications, 1995  
[International](#)

### **Performance and Jitter Analysis of Quadrature Partial Response Trellis Coded Modulation Signals in the Presence of Intersymbol Interference and Colored Noise**

Osman N. Ucan, Umit Aygolu, Erdal Panayirci  
IEEE Journal on Selected Area in Communications, 1992  
[International](#)

### **Decoding of Quadrature Partial Response Trellis Coded Signals QPR TCM in the Presence of Intersymbol Interference And Noise**

Osman N Ucan, Aygolu U, Panayirci E  
Lecture Notes in Computer Science, 1991  
[International](#)

### **A New Gravity Anomaly Separation Approach Differential Markov Random Field DMRF**

Osman N. Ucan, Bülent Sen, A.Muhittin Albora, Atilla Ozmen  
Electro-Geophysics, 1900  
[International](#) DOI: <http://link.springer.de/link/service/journals/10069/bibs/0005001/00050001.htm>

### **Enhanced AI-Simulink Hybrid Framework for Low-Latency Interference Mitigation and Performance Optimization in 5G RF Receivers**

SK Abbas, ON Uçan, AS Oday  
Physical Communication, 2026  
[International](#) DOI: 10.1016/j.phycom.2026.102995

## PROCEEDINGS

### **Detection and Classification of Melanoma by Analysis of Skin Lesions Using Teledermatology**

Mohammed Alsarra Ammar Maher, UÇAN OSMAN NURİ  
8th International Conference on Contemporary Information Technology and Mathematics (ICCITM), 2022  
[International](#)

## PROCEEDINGS

### **Location Dependent Channel Characteristics for Implantable Devices**

ILYAS MUHAMMAD, BAYAT OĞUZ, UÇAN OSMAN NURİ, Imran Muhammad Ali, Abbasi Qammer H

AECT, 2020

International

### **Feature Extraction Based Wavelet Transform in Breast Cancer Diagnosis Using Fuzzy and Non fuzzy Classification**

Pelin GORGEL, Ahmet SERTBAS, Osman N. UCAN

International Journal of Electronics, Mechanical and Mechatronics Engineering (IJEMME), 2013

International

### **Genetic Algorithm and Image Processing for Osteoporosis Diagnosis**

Jennane R., Almhdie-Imjabber A., Hambli R., Ucan ON., Benhamou CL.

32nd Annual International Conference of the IEEE Engineering-in-Medicine-and-Biology-Society (EMBC 10), 2012

International

### **A Fuzzy Inference System Combined with Wavelet Transform for Breast Mass Classification**

Gorgel Pelin, Sertbas Ahmet, Ucan Osman N.

35th International Conference on Telecommunications and Signal Processing (TSP), 2012

International

### **Destek vektör makineleri yaklaşımı ile kolonik polip tespiti**

Niyazi Kılıç, Osman N. Ucan

Akıllı sistemlerde yenilikler ve uygulamaları sempozyumu (ASYU), 2010

National

### **Fault diagnosis of power transformer using support vector machine based on dissolved gas in oil analysis**

İbrahim Günes, Abdülkadir Gozutok, Baris Kiremitci, Osman N. Ucan

International symposium on innovations in intelligent systems and applications, 2010

International

### **Discrete Wavelet transform for Otoman character recognition**

UÇAN OSMAN NURİ

The Fifth International Symposium on Wavelet Applications to World Problems, 2010

International

### **Hermitian Transform approach in classification of ECG signals**

Olcay Akbulut Kuruş, Niyazi Kılıç, Osman N. Ucan

The Fifth International Symposium on Wavelet Applications to World Problems, 2010

International

### **Comparison of complex wavelet transforms and discrete wavelet transforms for hybrid skeletonisation approach**

UÇAN OSMAN NURİ

The Fifth International Symposium on Wavelet Applications to World Problems, 2010

International

### **Computer aided detection of multiple sclerosis lesions from MR images of the human brain**

Güldem Küçük, Osman N. Ucan, Niyazi Kılıç, Aladdin Sayın,

The Fifth International Symposium on Wavelet Applications to World Problems, 2010

International

### **Image segmentation with complex wavelet and discrete wavelet transform**

Murat Ceylan, Osman N. Ucan, Yüksel Özbay

The Fifth International Symposium on Wavelet Applications to World Problems, 2010

International

### **Separation of Picasso and Braque paintings using wavelet and artificial neural Networks**

Baybora Temel, Niyazi Kılıç, Bünyamin Özgültekin, Osman N. Ucan

International Conference on modelling of engineering and technological problems (ICMETP) and 9th National conference of Indian society of industrial and applied mathematics (ISIAM), 2009

International

## PROCEEDINGS

### **Mammographic mass classification using wavelet based support vector machine**

Pelin Gorgel, Niyazi Kılıç, Osman N. Ucan, Onur Osman, Ahmet Sertbaş

International Conference on modelling of engineering and technological problems (ICMETP) and 9th National conference of Indian society of industrial and applied mathematics (ISIAM), 2009

International

### **Evaluation of educational effect on awareness of coastal pollution and clean sea water reservation using fuzzy based algorithm**

Nüket Sivri, Osman N. Ucan, Abdurrahim Akgundogdu, Zafer Aslan

International Conference on modelling of engineering and technological problems (ICMETP) and 9th National conference of Indian society of industrial and applied mathematics (ISIAM), 2009

International

### **Colon Segmentation and the Detection of Colonic Polyp with Template Matching in CT Images**

Kilic N, Osman O, Osman N. Ucan

IEEE 16th Signal Processing, Communication and Applications Conference, 2008

International

### **Multifont Ottoman character recognition using Support Vector Machine**

Kilic N, Gorgel P, Osman N. Ucan, et al

Conference Information: 3rd IEEE International Symposium on Control, Communications and Signal Processing (ISCCSP 2008), 2008

International

### **Multifont Otoman character recognition using support vector machine**

Niyazi Kılıç, Pelin Görgel, Osman N. Ucan, Ahmet Kala

ISCCSP, 2008

International

### **Efficient estimation of osteoporosis using artificial neural networks**

Lemineur G, Harba R, Kilic N, Osman N. Ucan et al.,

Conference Information: 33rd Annual Conference of the IEEE-Industrial-Electronics-Society, 2007

International

### **Evaluation of NiMnGa magnetic shape memory alloys using cellular neural Networks**

Gürsev Pirge, Niyazi Kılıç, Osman N. Ucan, Sabri Altınbaş

III. European Conference on Computational mechanics solids, structures and coupled problems in Engineering, 2007

International

### **Efficient estimation of osteoporosis using artificial neural Networks**

Gerald Lemineur, Rachid Harba, Osman N. Ucan, Onur Osman, Laurent Benhamou

Conference of the IEEE Industrial Electronics Society (IECON), 2007

International

### **Temperature prediction of Kucukcekmece lagoon using artificial neural Networks**

A.G. Karaçor, N. Sivri, Osman N. Ucan

International Workshop II on applications of wavelets to real world problems, 2007

International

### **Determination off the fault zone by using genetic cellular neural network in the Thrace and the Marmara Sea**

Çağlak F, Albora AM, Osman N. Ucan

Conference Information: IEEE 14th Signal Processing and Communications Applications, 2006

International

### **Full information rate distance 4 block codes**

Altay G, Osman N. Ucan, Altay N

Information: 3rd International Symposium on Wireless Communication Systems (ISWCS 2006), 2006

International

## PROCEEDINGS

### **On the trellis structures of geometric augmented product codes**

Altay G, Osman N. Ucan, Altay N, et al.

Conference Information: 1st NASA/ESA Conference on Adaptive Hardware and Systems, 2006

International

### **Transmission of 2D images using Kalman Turbo systems**

Odabasioglu N, Osman N. Ucan, Tanc AK

Conference Information: 3rd International Conference on Computing, Communications and Control Technologies, 2005

International

### **Channel estimation anal tracking of wireless communication**

Bayat O, Montlouis W, Shafai B, Osman N. Ucan, et al

IEEE Military Communications Conference (MILCOM 2005), 2005

International

### **Reduced state equalization of multilevel turbo coded signals**

UÇAN OSMAN NURİ

30th IEEE International Conference on Acoustics, Speech, and Signal Processing, 2005

International

### **Iterative equalization of frequency selective channels**

Bayat O, Shafai B, Osman N. Ucan

Conference Information: IEEE Sarnoff Symposium on Advances in Wired and Wireless Communication, 2005

International

### **Applications of CNN with trapezoidal activation function Conference Information**

Bilgili E, Goknar IC, Osman N. Ucan

International Symposium on Complex Computing-Networks, 2005

International

### **Stability of CNN with trapezoidal activation function**

Bilgili E, Goknar IC, Osman N. Ucan, et al

Conference Information: International Symposium on Complex Computing-Networks, 2005

International

### **Reduced State equation of multilevel Turbo coded signals**

Oğuz Bayat, Bahram Shafai, Osman N. Ucan

ICASSP, 2005

International

### **ICIPA Iterative Cellular Image Processing Algorithm algoritması ile bilgisayar ağlarının optimizasyonu**

Osman N. Ucan, Onur Osman, Hakan Cam

Havacılıkta İleri Teknolojiler ve Uygulamaları Sempozyumu, HITEK., 2004

National

### **İstanbul şehir atmosferindeki troposferik Ozon O3 kirliliğinin yapay zeka ile modellenmesi**

H. Kurtulus, Ulku Sahin, Cuma Bayat, Osman N. Ucan

Havacılıkta İleri Teknolojiler ve Uygulamaları Sempozyumu, HITEK, 2004

National

### **Birleştirilmiş MRF HYSYA Yöntemi ile Gürültü Temizleme**

Niyazi Kılıç, Osman N. Ucan

Ulusal Elektrik Elektronik-Bilgisayar Mühendisliği Sempozyumu (ELECO 2004), 2004

National

### **ISI kanallar için 8 PSK moduleli Turbo Dengeleme yapısının tasarımı ve performansının incelenmesi**

Selma Arıcan, Osman N. Ucan, Mehmet Bayrak

IEEE 12. Sinyal işleme ve iletişim uygulamaları kurultayı, 2004

National

## PROCEEDINGS

### İstanbul un hava kirliliğinin yapay sinir ağ ile modellenmesi

Ülkü Şahin, Osman N. Ucan, Orhan Tolluoğlu, Cuma Bayat

The 13th Turkish Symposium on Artificial Neural Intelligence & Artificial Neural Networks, 2004

National

### An efficient channel equalization on the transmission of turbo coded signals

Bayat O, Shafai B, Osman N. Ucan

5th International Conference on Communications in Computing (CIC 2004), 2004

International

### Wavelet cellular neural network architecture and learning algorithm

Bal A, Osman N. Ucan, Pastaci H, et al.,

Conference on Independent Component Analyses, Wavelets, Unsupervised Smart Sensors and Neural Networks II, 2004

International

### The design and performance investigation of turbo equalization structure with 8 PSK modulation for ISI channels

Arıcan S, Osman N. Ucan, Bayrak M

IEEE 12th Signal Processing and Communications Applications Conference., 2004

International

### Edge detection in noise mounted Picture

Tolluoglu O, Osman N. Ucan, Kent S, et al.,

IEEE 12th Signal Processing and Communications Applications Conference., 2004

International

### Construction and minimal trellis for 32 16 8 decomposable code

Gökmen Altay, Osman N. Ucan

Second International Conference on Electrical and Electronics Engineering, ELECO, 2003

International

### Design and development of the future in Turkey

Reza Ziarati, Martin Ziarati, Osman N. Ucan, David Stockton

Proceedings of the 10th Mediterranean Conference on control and Automation (MED 2002), 2002

International

### Picasso ve Braque sahte gerçek ayırımı

Bünyamin Özgültekin, Osman N. Ucan, Baybora Temel, Ümran Aria Balcı

İstanbul Aydın University, Panel,,

National

### Elektrokardiyografi Sinyallerin Yapay Sinir Ağları İle Değerlendirilmesi

Yashar M. Jwmah, Niyazi Kılıç, Osman Nuri Uçan

Tıp Teknolojileri Ulusal Kongresi (TIPTEKNO'2010),

National

## PROJECTS

### “Pediatrik Kafatası Şekil Bozukluklarında Kraniyal Ortez Kask Yapım Teknolojisinin Dijitalleştirilmesi” Altınbaş Üniversitesi, Bilimsel Araştırma Projesi (Executive)

Scientific research project supported by Higher Education Institutions, 01.01.2023 -

National Continues

### GSM Fiyatlandırma (Manager)

Ministry of Industry (SAN-TEZ) Project,

National Completed

## THESIS SUPERVISION

## THESIS SUPERVISION

### FAULT DIAGNOSIS IN OVERHEAD POWER LINE USING DEEP BELIEF NETWORK

QADER FARHAN ABED ABED

2024 Master's Degree

Mixture of optical quadrature-phase shift keying and continuous-phase frequency shift keying advanced methods for monitoring optical performance in future photonic networks

ALAA TAREQ SAEED AL-HADEETHI

2024 Master's Degree

Mixture of optical quadrature-phase shift keying and continuous-phase frequency shift keying advanced methods for monitoring optical performance in future photonic

DURaid KHAIRI YAHYA AL-HADEETHI

2024 Master's Degree

MODELING AND SIMULATION OF A HYBRID ELECTRIC GRID FOR RELIABILITY AND POWER QUALITY ENHANCEMENT

YAHYA MOHAMMED JASIM AL MASHHADANI

2024 Master's Degree

THIN FILM DEPOSITION AND CHARACTERIZATION FOR GAS SENSING DEVICE APPLICATION

MITHAL OKAB ABDULHADI ABDULHADI

2024 Master's Degree

Reinforcement learning with multi-armed bandits for dynamic content optimization of web performance

HANAN QAHTAN HUSSEIN AL-ZUHAIRI

2024 Master's Degree

CYBER SECURITY METHOD FOR PHISHING AND MALICIOUS LINK DETECTION IN SOCIAL MEDIA USING DATA MINING TECHNIQUES

HADEEL BASIL SAADALLAH ALSULTAN

2024 Master's Degree

Ultra-wideband monopole antenna and deep learning application for 6g MIMO

MEHMET FERİT EREL

2024 Doctorate

Detection of malicious SQL injections using svm and KNN algorithms

SAMEER ABDULJABBAR KADHIM HACHAM

2024 Master's Degree

Modern web - based decision support system for oil refinery workflow transformation with economic analysis

OSAMAH SHIHAB AHMED AL-NUAIMI

2024 Master's Degree

DNS traffic based intrusion detection using modified KNN algorithm and feature weighting

HANEEN KADHIM HWAIDI AL FADHLI

2024 Master's Degree

Makine öğrenmesi yöntemleri ile çevrimiçi kredi kartı işlemlerinde Fraud analizi tahmini

YASİN DİKBİYİK

2024 Master's Degree

ENHANCING IOT RESOURCE UTILIZATION IN FOG-CLOUD ENVIRONMENT FOR PROVIDING REAL TIME SERVICES

NASEEM ADNAN HAMEEDI ALSAMARAI

2024 Doctorate

ISLANDING DETECTION IN DISTRIBUTED GENERATION GRIDS USING RECURRENT NEURAL NETWORKS

SARAH MAHMOOD FARHAN AL KINANI

2024 Master's Degree

## THESIS SUPERVISION

### CLASSIFICATION OF HAND SIGN LANGUAGE USING DEEP LEARNING ALGORITHM

ISRAA ADIL MOHAMMED ALYSADEN

2024 Master's Degree

### TRANSMISSION LINE LOSS DETERMINATION OF ELECTRICITY BY USING CONVOLUTIONAL NEURAL NETWORK

ELAF HAYDER SADEQ AL-SAMKRI

2023 Master's Degree

### Using dataming techniques for data normalization in smart classrooms

ABDULLAH RAGHEB HAMID ALBAKER

2023 Master's Degree

### APPLYING ARTIFICIAL INTELLIGENCE TECHNIQUES ON CYBER SECURITY DATASETS: DETECTING CYBER ATTACKS.

OMAR WALEED ABDULHADI AL BAWAB

2023 Master's Degree

### Studying and Evaluating The Impact Of Educational Games On Computer Learning For The High Schools In Iraq By Using Scratch Language

ANES HUSSEIN MOHAMMED AL-KHAFAJI

2023 Master's Degree

### An automated convolutional neural network model for the detection of brain tumours using MRI images

RAWAA ABAID MAHAL MAHAL

2023 Master's Degree

### image denoising using deep convolutional based on denasing autoencoder

MOHAMMED QADRI SABER SABER

2023 Master's Degree

### Segmentation of brain tumor MRI images using watershed thresholding

AHMED TALIB ATIYAH ATIYAH

2023 Master's Degree

### Machine learning techniques for estimation of human tiredness level from brain electrical activity

SAAD SHABAN

2023 Doctorate

### Three-dimensional (3d) liver tumor detection with deep learning

FIRAT ÖZCAN

2023 Doctorate

### Impact of the earthing system on the short circuit current in iraqi power system

FADHAA ZAID KHALAF AL-GBURI

2023 Master's Degree

### Anomaly-based intrusion detection systems using machine learning algortihim

KARRAR ALI AWAD AL-JUBOORI

2023 Master's Degree

### SOFTWARE IMPLEMENTATION AND EVALUATION OF A TWO STAGES CR FOR NOISY CHANNELS AT HIGH FREQUENCY RECEIVERS

IBRAHIM FADHIL HAYDER AL-MAHDAWI

2023 Master's Degree

### COVID-19 ULTRASOUND IMAGE CLASSIFICATION USING SVM BASED ON KERNELS DEDUCED FROM CONVOLUTIONAL NEURAL NETWORK

SAIF ABDULRAHMAN MOHAMMED AL-JUMAILI

2023 Doctorate

## THESIS SUPERVISION

**A new method for direct IoT devices communication with simultaneous optimization of system performance**

LUMA ABDULNASER ALSAMARRAY

2023 Master's Degree

**Dynamic IoT hierarchical routing optimization using multi-heuristic clustering**

AYAT YOUSÏF MOHAMMED AL-HILFI

2023 Master's Degree

**Secure medical data- health transmission based on integrating steganography and encryption**

MINA SAMEER HAJI AL-OKBI

2023 Master's Degree

**Fake news detection via automated deep learning**

YASÏR ABDULKAREEM JAMAL JAMAL

2023 Master's Degree

**Artificial intelligence model for DDOS-detection**

ALI MOHAMMED SAADOON BRAICHAT

2023 Master's Degree

**Detection of denial-of service attacks using artificial neural networks**

SARMAD JASSIM MOHAMMED

2023 Master's Degree

**Vanet performance evaluation in terms of nodes distribution, mobility models, and routing protocols**

WALEED KHALID FATHI ALBO ISMAEL

2023 Master's Degree

**ML and DL approaches for images detection and decision-making enhancements in cornea surgery via femtosecond laser**

AMER DAWOOD LAFTA AL-BADRI

2023 Master's Degree

**The role of technology in airline management and the quality of services for passengers**

MUSTAFA MONES HATO

2023 Master's Degree

**Resource management scheme for vehicular cloud networking**

GHAIDAA SALIH FAYYADH ALMASHHADANI

2023 Master's Degree

**Border control using human shape detection**

ALI ABDULLAH MOHAMMED MOHAMMED

2023 Master's Degree

**Call center for deep learning based attractive speech recognition**

HASNAA MOHAMMED HUSSEIN JASIM ALALLAF

2023 Master's Degree

**Using artificial intelligence to identify skin cancer**

AMMAR MAHER MOHAMMED ALSARRAF

2023 Master's Degree

**Wireless lan design and future internet architecture**

ASHRAF THAKER MAHMOOD ALMUKHTAR

2023 Master's Degree

**Tumor detection in spinal cords using sigmoid based CNN algorithm**

SHERHAN AIAD ALSUNOUSI ABOKHNANA

2023 Master's Degree

## THESIS SUPERVISION

### SHARE MARKET PREDICTION: A NOVEL DATA ANALYTICS BY AI

HAMZA ALI BULQASSIM BEN MASAUD

2023 Master's Degree

### OPTICAL FIBRE COMMUNICATION SYSTEM IN COMMERCIAL VEHICLES

SOAD RAMADAN OMARAN ELJARUSHY

2023 Master's Degree

### A NEW MODEL FOR ELECTRICAL POWER TRANSMISSION LINE FAULT DETECTION

AMMAR KADHIM SALIH AL-HASNAWI

2023 Master's Degree

### CLUSTERING-BASED ROUTING PROTOCOL IN VANET NETWORKS USING THE BEE COLONY META-HEURISTIC ALGORITHM

ALI LAYTH YOUSIF AL-SHAREEFI

2023 Master's Degree

### A SIMULATION SUITE FOR NETWORK SLICING IN 5G NETWORKS

MUNTADHER ADDAY QATTAN AL-ZEYADI

2023 Master's Degree

### LOAD BALANCING AND SHADOW AVOIDANCE IN HYBRID LIFI-WIFI NETWORK USING MOPSO CLUSTERING

HUSSEIN KAMAL SALIH AL-AZZAWI

2023 Master's Degree

### DENIAL OF SERVICE ATTACK PREVENTION ON CLOUD DATABASE USING HONEY ENCRYPTION

BAYDAA BASIM MOHAMMED MOHAMMED

2023 Master's Degree

### MALWARE DETECTION IN IOTS USING HYBRID DEEP LEARNING TECHNIQUE

AMENAH DHAHIR HABEEB AL-FAHHAM

2023 Master's Degree

### HYBRID NON-RETURN-TO-ZERO PPM-PAM VISIBLE LIGHT COMMUNICATION SYSTEM

MOHAMMED YOUNUS MOHAMMED MOHAMMED

2022 Master's Degree

### Transformation of traditional healthcare system to advance AI-based e-healthcare system

REDA RAMADAN ABDULSALAM

2022 Master's Degree

### A New Method Based CNN Combined With Genetic Algorithm and Support Vector Machine for COVID-19 Detection By Analyzing X-Ray Image

KARAM MOHAMMED DAWOOD DAWOD

2022 Master's Degree

### A new method based CNN combined with genetic algorithm and support vector machine for COVID-19 detection by analyzing X-ray images

KARAM MOHAMMED DAWOOD DAWOD

2022 Master's Degree

### Drones swarm free space optical communication with pointing error

ABDULLAH JAMEEL MAHDI AL-SAMMARRAIE

2022 Doctorate

### Electromagnetic absorber based on metamaterial

RAWAN NAZAR AHMED AHMED

2022 Master's Degree

## THESIS SUPERVISION

**Computer denial of service attacks classification and prevention system optimization**

KHADIJA SHELFIT

2022 Master's Degree

**A new software defined network (SDN) in IoTs based deep learning techniques**

AHMED HUSSEIN IBRAHEM ALAJDAH

2022 Master's Degree

**Employing machine learning techniques and fuzzy membership for detecting fraud transactions in credit card**

AHMED ABDULGHANI

2022 Master's Degree

**Intelligent security system for mobile adhoc networks based on machine learning**

MARWA KHALIFA

2022 Master's Degree

**Designing a smart system to detect the intrusion in IoT**

ZAINAB ABDALJABAR

2022 Master's Degree

**Derin öğrenme yöntemleri kullanılarak meme kanseri teşhisi**

PEREN JERFİ CANATALAY

2022 Doctorate

**An efficient algorithm for energy consumption and load balancing in cloud computing network**

HIND AYAD MAJEED ALKAKJEA

2022 Master's Degree

**Internet of thing (IoT) cyber security with machine learning**

ARSHAD MOHAMMED KHALEEL KHALEEL

2022 Master's Degree

**Pedometer proposal for foot motion detection by arm motion detection**

ABDULQADER MOHAMMED AL-KHALIDI

2022 Master's Degree

**Securing critical information: An image cryptography digital based on multi level cryptographic**

LINA JAMAL IBRAHIM

2022 Master's Degree

**New smart grid framework based optimized ai method: Case study attack detection**

ABDULMUNEM YASEEN KHUDHAIR KHUDHAIR

2022 Master's Degree

**Using artificial intelligence methods to improve the prediction rate and accuracy**

NOOR HASAN MOHSIN SHUAIBT

2022 Master's Degree

**Reconfigurable miniaturized microstrip antenna based metamaterials for portable wireless biomedical applications**

AREEG AL - SHAIKHLI

2022 Master's Degree

**Smart detection system of vehicles license plate by using segmentation and enhancement image technique**

OMER JAMAL KAMIL KAMIL

2022 Master's Degree

**Segmentation and 3D reconstruction of brain tumor using trust region particle swarm optimization tr-pso: A novel approach**

ANAS KHUDHUR ABBAS AL -JUBOORI

2022 Master's Degree

## THESIS SUPERVISION

**Conceptual understanding of deep learning for smart wireless neural network**

MOHAMMED AKRAM ALI ALI

2022 Master's Degree

**Controlling a non-linear servo hydraulic system using pid controller with optimal techniques**

BANAN KHALEEL İBRAHİM İBRAHİM

2022 Master's Degree

**Compact MIMO Antenna Array for 5G Applications based Novel Modified-Koch Fractal Geometry**

HASSAN ALI HINDI AL-AMERI

2022 Master's Degree

**Facial detection using image processing techniques and deep neural network**

MOHANAD SALAH JASIM ALAZZAWI

2022 Master's Degree

**Using convolutional neural networks to improve hyperparameter values for learning phrase categorization**

AYOUB HAFEDH MUKHLIF

2022 Master's Degree

**A new framework for intrusion detection in iots using hybrid machine learning techniques**

RAWA ALMASBAHJEE

2022 Master's Degree

**Detection and classification of brain tumors in MRI images using deep convolutional neural network**

HUSSEIN ALISMAEELI

2022 Master's Degree

**A hybrid deep learning based framework for stock market prediction**

DOAA AZEEZ AMEEN AL-BAIRMANI

2022 Master's Degree

**Evaluation of disturbed function performance for maximum achievable rate of 5G in wireless communication**

ARSHAD ASAAD HAMEED ALFAKHERI

2022 Master's Degree

**5G technology implementation on process performance in production**

WASEEM KHALEEL JALIL ALADEEB

2022 Master's Degree

**Analysis of geospatial satellite images using deep learning**

IHAB ALMOJAHED

2022 Master's Degree

**Efficient routing in vanet networks using epso optimization and MAODV protocol**

MUSTAFA ALTWEL ALNSR A.

2022 Master's Degree

**Efficient spread spectrum sharing technique based on 5G MIMO cognitive networks**

MAHDI ABBAS SARHAN ALMALIKI

2022 Master's Degree

**Provide a new framework for blockchain based integrated and resource classification for the cloud**

FIRAS HAMMOODI NEAMAH AL-MUTAR

2022 Doctorate

**Using a novel method to improve various stages of machines in the power system**

MOHAMMED ABDULKAREEM ALI ALI

2022 Master's Degree

## THESIS SUPERVISION

**Smart search for efficient and retrieving of data in distributed database**

SIMAA HASSAN HADI AL-ANBAKI

2022 Master's Degree

**Predicting danger using artificial intelligence**

MUSTAFA AMEEN SULTAN AL-TAMEEMI

2022 Master's Degree

**Analysis of network security using cypher technique**

MOHANAD AHMED ABDULRAZZAQ AL ZAMILI

2022 Master's Degree

**Traveling salesman problem based on simulated annealing**

TAHA SARMAH MAHMOOD MUKHTAR ALASHKAR

2022 Master's Degree

**Enhancement of wimax performance for deployment in rural and none urban locations**

MOHAMMED ABDULSALAM ALI AL-JUMAILI

2022 Master's Degree

**Using virtual power plants based on machine learning to effectively distribute electrical energy**

LAYLA JASIM MOHAMMED AL-YOUSUF

2022 Master's Degree

**Database management system based on metaheuristic clustering of data entries**

ARKAN MUQDAD HAMEED ALABDALI

2022 Master's Degree

**VOLTAGE STABILITY CONTROL IN SOLAR POWERED ELECTRIC SMART GRID USING GENETIC ALGORITHM AND FUZZY LOGIC**

NOOR SALAM MOHAMMED MOHAMMED

2022 Master's Degree

**A new technique for peak-to-average power ratio reduction in 5G communication**

ZAID ABDULAZEEZ YOUSIF YOUSIF

2022 Master's Degree

**Hybrid deep learning model for automatic fake news detection**

OTHMAN ARAF HANSHAL HANSHAL

2022 Doctorate

**Classification of traffic and IoT devices through artificial neural network and feature selection**

AHMED THAMER HAMEED HAMEED

2022 Master's Degree

**A proficient image steganography method with effective data hiding and detection**

MUSTAFA ALI SAHIB AL ZAKITAT

2022 Master's Degree

**Novel semi-supervised learning approach for descriptor generation using artificial neural networks**

ALLA FIKRAT AL-WINDAWI

2022 Doctorate

**Performance monitoring of the breathing rate by using artificial intelligence algorithms**

MURTADHA HAYDER HASAN ALHASAN

2022 Master's Degree

**Prediction breast cancer in fine needle aspiration images using machine learning**

LAYTH ADNAN MAJEED ALABDALI

2022 Master's Degree

## THESIS SUPERVISION

### **Palm vein recognition by artificial neural network**

SURA AHMED JABER JABER

2022 Master's Degree

### **Using deep learning based classification algorithm to detect faults in turbine engines**

ALİ AL-TAİE

2022 Master's Degree

### **A new framework deep convolutional neural network for brain tumor detection**

KARAM MUNIB ABDULMAJEED BAKAL

2022 Master's Degree

### **New method based optimized machine learning techniques for attack detection in iots**

FATEN YAHYA ISMAEL ALHASAN

2022 Master's Degree

### **Phishing, spam and malware detection in emails using deep learning and anomaly detection filters**

MAYS AKRAM FADHIL FADHIL

2022 Master's Degree

### **Efficient routing in vanet networks using clustering and segmentation algorithm**

MUSTAFA SAHER MOHAMMED ALHELLI

2022 Master's Degree

### **A new AI method for effective medical data security application**

DHAY ABDULATEEF HAMMOOD ALJASIM

2022 Master's Degree

### **Malware detection using machine and deep learning algorithms for computer devices**

MOHAMMED THAIR ABDULSATTAR ALTAIY

2022 Master's Degree

### **Cyber security in e-government; A case study malware attack detection**

SHAYMAA MOUSA ABDULLAH AL-GBURI

2022 Master's Degree

### **Predicting of distributed denial of service using machine learning algorithms**

HANEEN KHAIRULLAH TALIB ALSELMİ

2022 Master's Degree

### **Phishing attacks detection using deep learning approach**

NADIA JABBAR JAWAD AL-HAFFAR

2022 Master's Degree

### **Cybersecurity breaches and the role of ethical hackers in securing the online system of the organisation**

MOHAMMED HASAN HADI AL MAAWI

2021 Master's Degree

### **Implementation of an Energy Efficient Routing Protocol for Wireless Sensor Network**

MOHAMMED WESSAM HUSSEIN AL-SHAMMARI

2021 Master's Degree

### **Detect malware url using naive bayes algorithm**

FATİMAH YASEEN HASHİM AL-ZUBAİDİ

2021 Master's Degree

### **Artificial neural networks for electroencephalogram classification**

ALI MOHSIN LATEEF ALKHAFAJI

2021 Master's Degree

## THESIS SUPERVISION

### Detect Phishing Website by using machine Learning

ALI JASIM KHALEEFAH AL-JABERI

2021 Master's Degree

### Improvement of data transmission in fiber optical systems using VCSEL based erbium doped fiber amplifier (EDFA)

AHMED JAMAL AZEEZ ALYOUSUF

2021 Master's Degree

### Using machine learning algorithms for orthopedic classification

MOHAMEDSADEQ ABDULKHUDHR ALSAEDI

2021 Master's Degree

### Data management system in IoTs using deep learning technique

AMER BENAROUS

2021 Master's Degree

### Detection of malicious URLs using machine learning

RAED HAMEED GBURI

2021 Master's Degree

### Building e-government solution system with interoperable GIS solutions using blockchain driven nhibernate mapper

NAWAR ABDULRIDHA YAHYA AL-KHAFAJI

2021 Master's Degree

### E-learning based mobile application for kids with autism spectrum disorder

TARIK MOHAMMED ABDULJABAR

2021 Master's Degree

### Design a smart home automation system using the IoT device cloud

YEHYA EL MOHAMAD

2021 Master's Degree

### Political optimizer: An adaptive social group optimization using harris hawk and jellyfish searching techniques

IHAB KHALDOON KHUDHUR ALTAEE

2021 Master's Degree

### DDOS attacks detection using machine learning models in SDNS

MOHAMMED AL-ADEMI

2021 Master's Degree

### Signing digital documents using private keys extracted fromfingerprint templates

OMAR MOHAMMED YOUNUS YOUNUS

2020 Master's Degree

### Üniversitelerde kurumsal web sitelerinin tasarım ve kullanılabilirlik analizleri

HATİCE AKKAYA

2020 Master's Degree

### Comparison of various algorithm for intrusion detection in data mining

HASAN M.HUSSEIN M.ALI NASSRULLAH

2020 Master's Degree

### INTELLIGENT HOME AUTOMATION ANDSECURITY SYSTEM WITH INTERNET OFTHINGS

INAS MOHANAD DAWOOD AL-JANABI

2020 Master's Degree

### A POWER EFFICIENT FRAMEWORK FOR DISTRIBUTED SEARCH DURING DISASTERS

ALSAJJAD HAYDER HASAN ALHASAN

2020 Expertise in Medicine

## THESIS SUPERVISION

**Intrusion detection and classification in internet of things networks using machine learning**

OMAR KHUDHAIR EKHLAYEF EKHLAYEF

2020 Master's Degree

**ENHANCEMENT THE CONNECTING OF RFID WITH TO INTERNET BY USING HETEROGENEOUS NETWORKING**

FAHAD ABDULATEEF YASEEN ALDOORI

2020 Master's Degree

**ARTIFICIAL INTELLIGENCE BASED DIGITAL IMAGE PROCESSING SYSTEM FOR FACE RECOGNITION ON MULTICORE PLATFORM**

OMER NAJI KYATO KYATO

2020 Master's Degree

**Internet of things with health care for Configuration and management devices**

HAYDER ABDULATEEF WAHEEB AL-AZZAWI

2020 Master's Degree

**BİR FİLTRELEME VE CİNSİYET TESPİTİ KNN ALGORİTMASINA DAYALI SES ÖRNEĞİ VE BULANIK MANTIK DENOISER**

ABDULLAH ABBAS YOUSIF ALABDULLAH

2020 Master's Degree

**ANALYSIS ENERGY MANAGEMENT SYSTEM HYBRID FOR SMART GRID STABILITY BASED ON STATIC VAR COMPENSATOR WITH ANN**

ABDULLAH SATTAM DHEYAB DHEYAB

2020 Master's Degree

**SEYAHAT SATIŞI SORUNUNUN ÇÖZÜMÜ İÇİN FARKLI TEKNİĞİN KARŞILAŞTIRILMASI İÇİN DEĞİŞTİRİLMİŞ BALİNA OPTİMİZASYON ALGORİTMASININ KULLANILMASI**

MOHAMMED ISAM DHAHIR IMARAH

2020 Master's Degree

**IOT FRAMEWORK FOR QUADCOPTER-UAV CONTROLLING USING LIGHTWEIGHT BLOCKCHAIN AND 5G COMBINATION**

MOHANAD MOHAMMED KHAYOON ALSAGBAN

2020 Master's Degree

**DATA MINING APPLICATIONS IN TOURISM: COMPARATIVE ANALYSIS**

HUSSEIN MOHAMMED HOODI AL-RAMMAHI

2020 Master's Degree

**FEED FORWARD NEURAL NETWORK PERFORMANCE OPTIMIZATION USING WEIGHT INITIALIZATION AND PSO ALGORITHM ON MEDICAL DATA**

MAHMOOD JAMAL FADHIL AL-QASSAB

2020 Master's Degree

**NON-RETURN-TO-ZERO HYBRID PAM-PPM METHOD FOR VISIBLE LIGHT COMMUNICATION**

ZAINAB FADHIL ABBAS ALATTAR

2020 Master's Degree

**Using data mining techniques to explore patterns of academic achievement effects for high school students**

KARRAR ALI

2020 Master's Degree

**"HAND GESTURE RECOGNITION USING HUMAN COMPUTER RECOGNITION"**

HASAN MOHAMMED TAQI SALIH AL BDAIR

2020 Master's Degree

## THESIS SUPERVISION

### FACTORS AFFECTING THE ADOPTION OF CLOUD COMPUTING IN IRAQ GOVERNMENT SECTOR

HADEEL RIYADH KAREEM AL-SALIHI

2020 Master's Degree

### Highway traffic classification using data mining in machine learning

KHALID FARHAN MOHAMMED MOHAMMED

2020 Master's Degree

### AN EXPERT SYSTEM TO PREDICT EYE DISORDER USING DEEP CONVOLUTIONAL NEURAL NETWORK

MOHAMMED RASHID AHMED AHMED

2020 Master's Degree

### Sentiment analysis for cryptocurrency prices prediction

ALI ADNAN AHMED AHMED

2020 Master's Degree

### BIG DATA SECURITY COMPARATIVE ANALYSIS OF SYMMETRIC ALGORITHMS INTEGRATION ON APACHE SPARK

AHMED MAZIN SHIHAB AL-DAKHEEL

2020 Master's Degree

### DESIGN AND SIMULATION OF BUILDING MANAGEMENT SYSTEM

AHMED SADY SALMAN AL-KUBAISI

2020 Master's Degree

### MODIFIED LIFI SYSTEM USING 4X1 WDM

MOHAIMEN AMMAR IBRAHEEM MOHAMMED

2020 Master's Degree

### DESIGN AND SIMULATION OF DECIMATION FILTER FOR GSM COMMUNICATION SYSTEM USING MATLAB

YASMEEN TAHA YASEEN AL-KHALIDY

2020 Master's Degree

### EFFICIENT MONITORING AND CONTROL SYSTEM FOR HYBRID SMART GRIDS USING FUZZY LOGIC AND IOT

TEISEER ABDALHAFATH ABDALATEF ALZUBAIDI

2020 Master's Degree

### ANALYSIS AND DESIGN OF AN INTELLIGENT CONTROLLER FOR SOLAR CELLS BASED ON FPGA AND FIREFLY ALGORITHM

MUSTAFA ADIL HUSSEIN AL-WAELI

2020 Master's Degree

### UNIFIED REAL TIME OBJECT DETECTION USING CONVOLUTIONAL NEURAL NETWORK

HAMID RADAM HUSSEIN OBAIDI

2020 Doctorate

### COMPARISON BETWEEN EAGER METHODS AND LAZY METHODS FOR CLASSIFICATION DATA MINING ALGORITHMS

ABEER MOHAMMED SHANSHOOL SHANSHOOL

2020 Master's Degree

### ANALYZE BLOCKCHAIN DEPLOYMENTS AND POPULAR CRYPTOCURRENCIES FOR BUSINESS SECTORS

ALI KHALID WELI WELI

2020 Master's Degree

### Project management and security of electronic platforms for the software-defined radio

AHMED ESSAA ABED AL-OWAIDI

2020 Master's Degree

## THESIS SUPERVISION

### DATA MINING USING WEKA AND RAPIDMINER

DEAA ALDEEN FAISAL ABBAS ABBAS

2020 Subspecialty in Medicine

### WI-FI LOCATION FINGERPRINTING BASED INDOOR POSITIONING

MOHAMMED ISSA MOHAMMED MOHAMMED

2020 Master's Degree

### Data security and authentication over computer communication networks and the internet

TAHA ALI KHALEEL AL-AZAOOI

2020 Master's Degree

### Digital image cryptogrphy using chaotic logistic map

YOUNUS TAHREER YOUNUS YOUNUS

2020 Master's Degree

### Improving the limitations in the capacity of fiber optics using modified nonlinear fourier transform

QUSAY MUAAD ALI

2020 Master's Degree

### Performance enhancement of palm recognition system by robust machine learning approaches

LAYTH MOHAMMED ABBAS AL-MASHHADANI

2020 Master's Degree

### Sezgisel yöntemlerle market sepet analizi

FUAT GENÇ

2020 Master's Degree

### MODELING AND CONTROL RENEWABLE ENERGY SYSTEM CONNECTED TO AC GRID

MAHMOOD YASEEN MOHAMMED AL-DULAIMI

2020 Master's Degree

### Efficient construction cost estimation software using convolutional neural network and particle swarm optimization algorithm (PSO)

MOHANAD MOHAMMED HAMAD ALSABAOWI

2020 Master's Degree

### CLASSIFYING ECG TO DETECT HEARTDISEASES USING IMPROVED ARTIFICIALINTELLIGENCE (AI) TECHNIQUES

MOHAMMED SHAMAR YADKAR YADKAR

2020 Expertise in Medicine

### FOCUS ON MESSAGE ROUTING IN WIRELESS SENSOR NETWORKS AND ARDUINO PORT OF WSN PROTECT-LAYER

KARRAR SADDAM ALI AL-NOORIBANIHASHIM

2020 Master's Degree

### DETECTING AND CLASSIFYING LIVER FIBROSISSTAGE USING GADOXETIC ACID-ENHANCEDMAGNETIC RESONANCE IMAGING

HAYDER ABDULKAREEM QASIM ALMOLLA

2020 Master's Degree

### A hybrid local search-genetic algorithm for placement of dg units and shunt capacitors in radial distribution system

EMAD ALI ALMABSOUT

2020 Doctorate

### Automatic generation control using deep reinforcement learning

YASEEN SAADI ABBAS ABBAS

2020 Master's Degree

## THESIS SUPERVISION

### DESIGN AND EVALUATION OF A NETWORK INTRUSION DETECTION SYSTEM

EZZADDIN MAHDI JAWAMEER AL-SHAMMARI

2020 Master's Degree

### A DATA MINING TECHNIQUE FOR ANALYZING AND PREDICTING THE HITS OF VIDEO GAMES

AMJED SABBAR KOKAZ KOKAZ

2020 Master's Degree

### Methods viable for anomaly detection of application-level network

BAQAR ASSAM HATAF ALQWEZI

2020 Master's Degree

### Handle an emergency in the traffic light using artificial intelligence

HAYDER ABDULKAREEM QADER IBADI

2020 Master's Degree

### Hepatitis C virus prediction using krill herd trained artificial neural network

SAFA AKRAM YOUNIS YOUNIS

2020 Master's Degree

### Body health monitoring and alarm system by using android wear device

DOAA GHAZI ABDULWAHID AL-MAFRACHI

2020 Master's Degree

### Distributed denial of service (DDOS) detection in IoT sensors by using deep learning technique

OMAR AHMED

2020 Master's Degree

### The possibility of using machine learning to extract the user actions from the mobile devices data

HUDA ABDULWAHID ABBAS

2020 Master's Degree

### ESTIMATION OF DIRECTION OF ARRIVAL FOR ANTENNA ARRAY BASED ON (ESPBIT) AND MULTIPLE SIGNAL CLASSIFICATION ALGORITHMS

SABAH SALAM KHUDHAIR AL-ZIRJAWI

2020 Master's Degree

### Predicting power consumption using artificial neural networks algorithms

JUHAINA THAKIR MAHMOOD

2020 Master's Degree

### Real-time prediction the rate of penetration using machine learning

KHALID JAMAL MAALAGH

2020 Master's Degree

### The ability of neural networks to solve biomedical image segmentation task

ZINAH ABDULLAH AHMED

2020 Master's Degree

### Accuracy enhancement of brain epilepsy detection by using of machine learning algorithms

RAND NATIQ NEAMAH AL-DAHMAN

2020 Master's Degree

### CLASSIFICATION OF DDOS, SYNWARE & TROJANS USING DATA MINING

SARMAD DHEYAA AZEEZ ABU-ALTEMEN

2020 Master's Degree

### Introduce a distributed complex event processing architecture for network monitoring

ASHJAN ADNAN AL-MOHAMMED

2020 Master's Degree

## THESIS SUPERVISION

**The New Machine learning Techniques for Facebook Comment Volume Estimation**

MOHANAD ABDULRAHEEM MAHMOOD MAHMOOD

2020 Master's Degree

**Automatic analysis and detection of malware behavior using machine learning for computer device**

ABDULLAH QASSIM ALI

2020 Master's Degree

**Implementation a various types of machine learning approaches for biomedical datasets based on sickle cell disorder**

HAMID FALAH DHEYAB

2020 Master's Degree

**The automation of bug assignment using machine learning algorithms**

ALI EMAD MOHSİN ALBREEJ

2020 Master's Degree

**Development of a voice filter and enhancement method based on deep learning**

ADNAN ABDULLAH ATIYAH

2020 Master's Degree

**HYBIRD METHODS USING EDMS AND GAPOR FOR SHAPE AND TEXTURE**

ZUBAIDAH ALI SAHIB AL MUSTAWFI

2020 Master's Degree

**NAVIGATING ROBOTS IN A COMPLEX ENVIRONMENT WITH MOVING OBJECTS USING ARTIFICIAL INTELLIGENCE**

OMAR MAHMOOD YASEEN YASEEN

2020 Master's Degree

**Design and implement a big data processing platform suitable for smart grids data**

LUMA KHALID LUHAIBI

2020 Master's Degree

**Study and evaluate a mechanism that is able to highlight the legal documents**

HUSAM ADEL ALI ALSHUWAILI

2020 Master's Degree

**MULTI-BIOMETRIC GENDER CLASSIFICATION USING MACHINE LEARNING TECHNIQUES**

DIYAR WIRYA OMAR AMEENULHAKEEM

2020 Master's Degree

**Study and evaluate quantization methods for secret key extraction using the fading characteristics of a wireless channel**

HUSSEIN THAER NAMOOS AL-DAFFAIE

2020 Master's Degree

**Recent techniques used to detect botnet activities within the network using netflow data and botnet detection in virtual environments**

MOHAMMED HASSOONI JASIM AL-YASIRI

2020 Master's Degree

**Channel estimation for mimo-ofdm communication system based on deep neural networks**

ALI KHAIRI AHMED ALTOOHAFI

2020 Master's Degree

**Visible light communication system using 8x1 WDM**

HAMZAH MUSTAFA RASIM ZAKARIYA

2020 Master's Degree

**Real-time detection to solve traffic congestion problems**

HAIDER ADIL KHALEEL AL-ZUBAIDY

2020 Master's Degree

## THESIS SUPERVISION

### REINFORCEMENT LEARNING AGENT PLAYING VIDEO GAMES USING CONVOLUTIONAL NEURAL NETWORK

AHMED SALAM AHMED DULAIMI

2020 Master's Degree

### Face Detection and Tracking System Using Raspberry Pi

MUSTAFA ABDULSATAAR ABED ABED

2020 Master's Degree

### Investigation of emotional state using machine learning techniques based on complexity and spectral features of electroencephalogram

AHMED M. ABDALLA MOHAMED

2020 Doctorate

### Deep learning based fully autonomous network intrusion detection system

ZAID FARHAN DAKHIL DAKHIL

2020 Master's Degree

### 2d map generation and path exploration based on lider system

MUSTAFA MOHAMMED ABDULKAREEM AL RAWAF

2020 Master's Degree

### A new computer network system for intrusion detection system (ids) detection in ad hoc network based on optimized data mining techniques

DUNYA IBRAHIM MOHAMMED MOHAMMED

2020 Master's Degree

### Improvement of data transmission in fiber optical systems using vcsel based erbium doped fiber amplifier (EDFA)

AHMED JAMAL AZEEZ ALYOUSUF

2020 Master's Degree

### Segmentation and Classification of Dermoscopic Images for Detection of Melanoma Cancer in Early Stage Using Image Processing Techniques

MOHAMMED IBRAHIM AHMED AL-MASHHADANI

2019 Doctorate

### Adaptive Video Transmission over Communication Networks

GHAIDQ NASSR NAFA NAFA

2019 Master's Degree

### Brest cancer detection and image evaluation using augmented deep convolutional neural network

SAADALDEEN RASHID AHMED AHMED

2019 Master's Degree

### An indoor positioning system using ultrasonic waves

DOAA ALI JUMAAH ZIRJAWI

2019 Master's Degree

### Cyber attack detection in remote terminal units of SCADA system

ALI HASAN DAKHEEL

2019 Master's Degree

### Minimum error design of software defined radio transceiver model using MATLAB

MOHAMMED WALEED MAJEED AL DULAIMI

2019 Master's Degree

### Evaluation of ethernet-serial protocol converter for SCADA systems using raspberry Pi

HAMZAH HAMEED JASIM

2019 Master's Degree

## THESIS SUPERVISION

**Design and implementation of smart anti-theft car security system based on arduino UNO microcontroller**

SHAKIR MAHMOOD AHMED AL-JANABI

2019 Master's Degree

**Design and implementation of web based for intermediate online shop by using MVC laravel framework**

MOHAMMED THAKIR MAHMOOD

2019 Master's Degree

**An analysis of accessibility in learning management system in the context of higher education institution**

LAYTH HANI MAHDI ALSAMARAI

2019 Master's Degree

**Integration of the quality of service (QOS) in networked cloud computing system**

HAITHAM AHMED YASEEN

2019 Master's Degree

**Pattern-based behavioral biometric authentication using artificial neural networks**

ALI SAAD HUSSEIN AL-NASER

2019 Master's Degree

**medical video enhancement**

AHMED RASHID IBRAHIM ALABD

2019 Master's Degree

**INTELLIGENT SYSTEM FOR PREDICTING BEHAVIOR OF ELECTRICAL ENERGY CONSUMPTION**

NAAMA METHAB ATHAB ATHAB

2019 Master's Degree

**Design and implementation of an electronic DC- AC inverter based on the arduino microcontroller monitoring via IoT**

MURAD IRFAN AKRAM

2019 Master's Degree

**Simulation of wireless sensor network based communication system**

ABDULRAHMAN MOHAMED ABUDLRAHMAN ALMAAWI

2019 Master's Degree

**Bypassing the signal imperfections by means of wireless PID controller**

HARITH MUTHANNA NOORI

2019 Master's Degree

**Passive detection of islanding events in microgrids using machine learning**

ALI MAJEED MOHAMMED AL YASIRI

2019 Master's Degree

**Miniature microstrip antenna for wireless communication using fractal and non-fractal geometries**

ALI RASHID ABDULHAMEED

2019 Master's Degree

**Centralized reinforcement learning for the internet of things devices**

AHMED HEFDHI HUSSEIN HUSSEIN

2019 Master's Degree

**Visible light communication system using 4x1 WDM**

MUSTAFA IHSAN MUSTAFA

2019 Master's Degree

**EFFICIENT EVOLUTIONARY ALGORITHMS FOR MANY OBJECTIVE OPTIMIZATION PROBLEMS**

HAYDER HASSAN SAFI SAFI

2019 Doctorate

## THESIS SUPERVISION

**Efficient unconstrained iris recognition system based on CCT-like mask filter bank**

HALA NAFIE FATHEE

2019 | Doctorate

**MULTI VERSE OPTIMIZER ALGORITHM FOR OPTIMAL PLACEMENT AND SIZE OF DISTRIBUTED GENERATION IN RADIAL DISTRIBUTION SYSTEM**

RAND SAFI ABDULLAH ABDULLAH

2019 | Expertise in Medicine

**Fingerprint pattern recognition system based on modify multi-connect architecture (MMCA)**

LAYTH KAMIL ADDAY AL MAJMAIE

2019 | Doctorate

**UNIT COMMITMENT PROBLEM SOLVED BY HYBRID SWARM ALGORITHMS**

MAATHER ABDULRAHMAN IBRAHIM ALSHAIBI

2019 | Doctorate

**Effective integration of data mining techniques with businessintelligence using web mining**

OMER MUNEAM MUSHREF

2019 | Master's Degree

**Design and implementation of bi-directional audio and video conferencing based on web real-time communication**

ABDULLAH ALI TAHSEEN AL-NAJJAR

2019 | Master's Degree

**Automatic turbine speed control using integer and fractional order PID controller based on genetic algorithm**

AHMED AYAN OBED

2019 | Master's Degree

**ANALYZING THE ALTITUDE VARIATION EFFECTS ON OPTICAL CHANNEL PERFORMACE**

OLAIA MOSBAH A. BOURTEMA

2019 | Master's Degree

**Aes-turbo over rician and rayleigh fading channels**

MUSTAFA RIYADH AHMED ALBANNA

2019 | Master's Degree

**Comparative study of intrusion detection system using machine learning**

MAHMOOD IMAD ABDULKAREEM

2019 | Master's Degree

**Designing insistence-aware medium access control protocol and energy conscious routing protocol in a quality-of-service guaranteed wireless body area network**

ABDULLAHI ABDO IBRAHIM

2019 | Doctorate

**Kullanıcı deneyim tasarım veri analiz sistemi**

ALİ İHSAN ÖZ

2019 | Master's Degree

**Optimization of Electrical Charging Station Capacity**

ABDULGADER H. ABDULGADER ALSHARIF

2018 | Master's Degree

**Implementation of Different Clustering Algorithms**

AMNA MOHAMED M. ABURAS

2018 | Master's Degree

**Collaborative filtering recommendation system: Comparison study**

INAS AMJED MOHAMMED AL-MANI

2018 | Master's Degree

## THESIS SUPERVISION

**Computer communication network reliability: Evaluation of two-terminal reliability**

ZAHRAA MUSTAFA ZAIDAN

2018 Master's Degree

**DRONE SWARM CONFIGURATION FOR HIGH- RESOLUTION SURVEILLANCE WITH LONG CODE ONBOARD  
FREE-SPACE OPTICAL COMMUNICATION**

WAMIDH JALIL MAZHER MAZHER

2018 Doctorate

**Heuristic optimization approaches for feature selection in biomedical datasets**

HADEEL TARIQ IBRAHIM IBRAHIM

2018 Doctorate

**Implementing Pulse Position Modulation Using Field-Programmable Gate Array**

MURTADHA MOHAMMEDALI HADI ALKADHMI

2018 Master's Degree

**Steady the distortion of the transmitting data due to the spectral shift effect of semiconductor laser with increasing of  
frequency in optical communication systems**

MUSTAFA GHAZI FAHAD AL-AZZAWI

2018 Master's Degree

**Low cost high speed data acquisition board for laboratory laser system**

BARAA SAAD ABDULHAKEEM ABDULHAKEEM

2018 Master's Degree

**Metaheuristic algorithms to enhance artificial neural network for medical data classification**

IHSAN SALMAN JASIM AL GBURI

2018 Doctorate

**ADVANCED FACE RECOGNITION SYSTEM USING NOVEL TECHNIQUE BASED ON LINEAR REGRESSION  
SLOPE**

ABDULBASIT KADHIM SHUKUR AL-AZZAWI

2018 Doctorate

**SIMULATION SYSTEM FOR SECURITY SENSING SERVICES BASED ON INTERNET OF THINGS**

ALI TARIQ KALIL AL KHAYYAT

2018 Master's Degree

**Prediction of epileptic seizures with the use of biomedical sensors and internet of things**

ALLA FIKRAT MAJEED AL WINDAWI

2018 Master's Degree

**ENERGY EFFICIENT CLUSTERING HEAD SELECTION, ROUTING AND ATTACKER NODE DETECTION IN  
WIRELESS SENSOR NETWORK USING GA-ANFIS and WEIGHTED TRUST EVALUATION**

SHAYMAA QAYDAR ABDULJABBAR AL HAYALI

2018 Doctorate

**Fingerprint classification techniques using DWT with SVM and LDA**

ABDELSALM M.A. EHOEDY

2018 Master's Degree

**Improving ids alerts to improve the quality of the network security by using data mining techniques**

ISAM KAREEM THAJEEL THAJEEL

2017 Master's Degree

**İğnecikli sinir ağları ile ses kaynağı sınıflandırma**

PEREN JERFİ CANATALAY

2016 Master's Degree

## THESIS SUPERVISION

**RF iletişimli mobil robot kolu**

GÖKHAN EŞGİ

2016 Master's Degree

**İki eksenli güneş izleme panelinin kontrolü**

GÖKHAN ORAL

2015 Master's Degree

**Aydınlatma led kaynaklarının enerji verimliliğinin incelenmesi**

TEMEL SÖNMEZOCAK

2015 Master's Degree

**Koçan tabanlı uyarlanabilir kanal denkleştirme**

NOOR AHMED

2013 Master's Degree

**Elektrik talebi ve elektrik piyasası fiyatlarının kısa dönemde tahmin edilmesi**

ONUR YAZGAN

2013 Doctorate

**Görüntü işleme teknikleri kullanılarak, 2-boyutlu mamografik verilerde kanserli bölge tanısı**

PELİN GÖRGEL

2011 Doctorate

**Hermitian transform tabanlı yöntemlerle sayısal işaretlerin değerlendirilmesi**

OLCAY AKBULUT KURUŞ

2011 Doctorate

**Beyin magnetik rezonans görüntülerinin segmentasyonu**

GÜLDEM KÜÇÜK

2010 Master's Degree

**Düşük yoğunluklu parite kontrol kodları**

EMEL DEMİRYAKAN

2010 Master's Degree

**OFDM tabanlı haberleşme kanallarında LDPC kodlama**

AZİZ YILMAZ

2010 Doctorate

**Telemedikal elektrokardiyografi sinyallerin yapay sinir ağları ile değerlendirilmesi**

YASHAR M. JWMAH

2010 Master's Degree

**Bilgisayar tomografili akciğer görüntülerinin değerlendirilmesinde kompleks değerli yeni bir akıllı sistem tasarımı**

MURAT CEYLAN

2009 Doctorate

**Ses sıkıştırma tekniklerinin başarımların analizi**

DİNÇER YARIMÇAM

2009 Master's Degree

**Analysis and design of synchronous/asynchronous cooperative communication systems**

MÜMTAZ YILMAZ

2009 Doctorate

**Trabeküler kemik yapılarının yapay zeka yöntemleri ile modellenmesi**

ABDURRAHİM AKGÜNDOĞDU

2009 Doctorate

## THESIS SUPERVISION

**Katı atık düzenli depolama gazlarının genetik algoritmalarla modellenmesi**

HÜSEYİN KURTULUŞ ÖZCAN

2009 | Doctorate

**Birleşik şifreleme ve turbo kodlama sistemleri**

VOLKAN ÖZDURAN

2008 | Master's Degree

**Bilgisayarlı tomografi görüntülerinde üç boyutlu şablonlar kullanılarak kolonik polip tespiti**

NİYAZİ KILIÇ

2008 | Doctorate

**Doğrusal öngörülü kodlama ve adaptif algoritma tabanlı konuşmacı tanıma**

ONUR MERAL

2008 | Master's Degree

**Güç iletim hatlarında ortogonal frekans bölmeli çoğullama ile başarı analizi**

EVREN KORALTÜRK

2008 | Master's Degree

**Sayısal mammografi görüntülerinin iyileştirilmesi**

ALİ ÜLGEN

2008 | Master's Degree

**Duygusal zeka modeli oluşturulması**

ÖMER FATİH SAYAN

2008 | Doctorate

**GSM sistemlerde lokasyon tespiti**

ULAŞ ÇELENK

2007 | Master's Degree

**Geometrik inşa kodlarının üretimi ve başarımı**

TUGAY AKBAŞ

2007 | Doctorate

**Yapay sinir ağları ile beyin tümörü tomografi görüntülerinin sınıflandırılması**

SERDAR KARGIN

2007 | Master's Degree

**Ağırlıklı dalgacık ağları ve uygulamaları**

HASAN DEMİR

2007 | Doctorate

**Adaptive and Iterative Equalization Transceiver Designs for Wireless Communication Applications**

Oğuz Bayat

2006 | Doctorate

**Lmns'in (yerel çok noktalı dağıtım sistemi) İstanbul'daki başarımının incelenmesi**

YÜCEL TÜRKER

2006 | Master's Degree

**Sürekli faz modülasyonunun çok düzeyli turbo kodlanması**

NİYAZİ ODABAŞIOĞLU

2006 | Doctorate

**İteratif ayrıştırılabilir blok kodlar**

GÖKMEN ALTAY

2005 | Doctorate

## THESIS SUPERVISION

**Bilgisayar ağı yapılarında en iyileme teknikleri**

OLCAY AKBULUT

2005 Master's Degree

**Düşük yoğunluklu parite kontrol kodlarının hata başarımı**

YEŞİM HEKİM

2005 Master's Degree

**Turbo kodlama tekniklerinin başarımı**

ONUR OSMAN

2004 Doctorate

**Hücrel yapay sinir ağı-markov rasgele alan (HYSA-MRA) yöntemi ve yerbilimlerine uygulamaları**

HANDE BARGU

2004 Master's Degree

**Biyomedikal işaretlerin Markov rastgele alanları kullanılarak işlenmesi**

NİYZAZİ KILIÇ

2003 Master's Degree

**Bulanık-yapay sinir ağı ile biyomedikal görüntü işlenmesi**

ABDURRAHİM AKGÜNDOĞDU

2003 Master's Degree

**Kısmi yanıtli sönümlemeli kanallarda uzay-zaman kodlamalı sistemlerin hata başarımı**

ÖMER ERKAN

2003 Master's Degree

**Developing A Mechanism For Learning In Engineering Environments**

Martin Ziarati

2002 Doctorate

**Hücrel sinir ağı (CNN) modelleri**

GÜNAY KURTULDU

2002 Master's Degree

**Sürekli faz modülasyonu haberleşme sistemlerinin hata başarımı**

MUSTAFA TOLUNAY

2002 Master's Degree

**Sanal özel ağılarda güvenlik**

ÖZGÜR SAVUR

2002 Master's Degree

**Sürekli faz modülasyonlu kaynak/ kanal sistemlerin sönümlemeli ortamlarda hata başarımı**

NİYZAZİ ODABAŞIOĞLU

2002 Master's Degree

**Rastgele markov alanları ve hücrel sinir ağı ile görüntü işleme**

MAHMUT ŞAMİL SAĞIROĞLU

2001 Master's Degree

**Hücrel yapay sinir ağı ve görüntü işleme uygulamaları**

ATILLA ÖZMEN

2001 Doctorate

**Yapay sinir ağı ile bitkilerin şekillerinin sınıflandırılması (yapraktan bitki tanıma)**

ERDEM BİLGİLİ

1999 Master's Degree

## COURSES

## COURSES

Course Type	Course Code	Course Name
Master's Degree	EM597	SEMİNER
Master's Degree	BT597	SEMİNER
Master's Degree	ECE597	SEMINAR
Doctorate	ECE698	THESIS PROPOSAL
Doctorate	ECE699	DOCTORAL THESIS
Master's Degree	EBM597	SEMİNER
Bachelor's Degree	CULT101.1	CULTURE AND SOCIETY
Bachelor's Degree	SRP102.1	SOCIAL RESPONSIBILITY PROJECT
Bachelor's Degree	TOS102.1	TOPLUMSAL SORUMLULUK PROJESİ
Bachelor's Degree	EE332	INTRODUCTION TO COMMUNICATION THEORY

## PERSONAL INFORMATION

### CONTACT INFORMATION

Interview Hours: Salı- 13:00 - 14:00

Mahmutbey Technology Campus

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