

# MEHMET ÖZTÜRK

## ASST. PROF.

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Address : Karadeniz Teknik Üniversitesi, Elektrik-Elektronik Müh. Bölümü Trabzon

### International Researcher IDs

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Publons / Web Of Science ResearcherID: R-1736-2017

ScopusID: 57203238225

Yoksis Researcher ID: 35240

### Learning Knowledge

Doctorate 2007 - 2013	Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Müh. Bölümü, Turkey
Postgraduate 2004 - 2007	Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Müh. Bölümü, Turkey
Undergraduate 1999 - 2004	Kadir Has University, Faculty Of Engineering, Elektronik Mühendisliği Bölümü, Turkey

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, İki veya Daha Fazla Anjiyo Görüntüsünden Koroner Damarların Üç Boyutlu Yapısının Elipsoit Esaslı Yüksek Doğrulukta Eldesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Müh. Bölümü / Elektronik, 2013

Postgraduate, 3 Boyutlu Damar Yapısının 3 Keyfi Açından Alınmış İzdüşüm Görüntülerindeki Kenarlardan Elde Edilmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Müh. Bölümü / Elektronik, 2007

### Academic Titles / Tasks

Assistant Professor 2018 - Continues	Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik
Assistant Professor 2014 - 2018	Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik

Research Assistant

2005 - 2013

Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik

## Supported Projects

1. ATASOY A., SEVİM Y., HACIOĞLU G., ÖZKOP E., BENLİ E., TURHAL M., YAZGAN A., DANAYİYEN Y., ÖZTÜRK M., Project Supported by Higher Education Institutions, Yenilikçi Laboratuvar Yaklaşımlarının Elektrik Elektronik Mühendisliği Eğitimine Uygulanması, 2022 - Continues
2. AYDEMİR Ö., ÖZTÜRK M., TUBITAK Project, Beynin Farklı Koku ve Tat Etkileşimine Verdiği Cevapların İncelenmesi ve Sınıflandırılması, Continues
3. ÇANAKÇI A., ÖZTÜRK M., TUBITAK Project, Nano Ölçekli Bor Mineralleriyle Zenginleştirilmiş İlık Karışım Asfaltın Reolojik Performansının Araştırılması Ve Dijital Görüntüleme Yöntemi İle Analizi, 2016 - 2018
4. Hasırcı Z., Çavdar İ. H., Kaya H., Öztürk M., Benveniste R., TUBITAK Project, Busbar Enerji Dağıtım Hatlarında Geniş Bant Haberleşme Sistemi Olanaklarının Araştırılması Ve Geliştirilmesi, 2015 - 2018
5. KAYIKÇIOĞLU T., AYDEMİR Ö., ÖZTÜRK M., KETENCİ S., Project Supported by Higher Education Institutions, ElektrikElektronik Mühendisliği Bölümü Lisans Tıbbi Elektronik Laboratuvarı Altyapısının İyileştirilmesi, 2016 - 2017
6. ALTAŞ İ. H., KAYIKÇIOĞLU T., ÇAVDAR İ. H., ÖZKOP E., SEVİM Y., ÇAKIR O., HACIOĞLU G., YAZGAN A., KAYA H., NUROĞLU F. M., et al., Project Supported by Higher Education Institutions, ElektrikElektronik Mühendisliği Bölümü Lisans Laboratuvarları Altyapısının İyileştirilmesi, 2016 - 2017
7. AYDEMİR Ö., ÖZTÜRK M., TUBITAK Project, Uyarın Zamanlaması Parametrelerinin Optimize Edilerek P300 Sinyallerinin Hızlı Belirlenmesi, 2016 - 2017
8. AYDEMİR Ö., ÇAKIR O., ÖZTÜRK M., Project Supported by Other Official Institutions, Felçli Hastalar için Hasta Ekranı Kontrolü, 2015 - 2016
9. ÖZTÜRK M., TUBITAK Project, PLAKA TANIMA TEMELLİ OTO PARK OTOMASYONU, 2014 - 2015
10. ÖZTÜRK M., KÖSE C., DOĞAN H., Project Supported by Other Official Institutions, El Hareketleri İle Bilgisayar Denetimi ve Kontrolü, 2014 - 2015

## Scholarships

Yurtiçi Doktora Bursu, University, 2007 - Continues

## Published journal articles indexed by SCI, SSCI, and AHCI

1. **Enhancing magnetic levitation and guidance force and weight efficiency of high-temperature superconducting maglev systems by using sliced bulk YBCO**  
Abdioglu M., Öztürk U. K., Guner S. B., Öztürk M., Mollahasanoğlu H., Yanmaz E.  
International Journal of Applied Ceramic Technology, vol.20, no.6, pp.3766-3774, 2023 (SCI-Expanded)
2. **Digital image processing of warm mix asphalt enriched with nanocolemanite and nanoulexite minerals**  
Kutuk-Sert T., ÖZTÜRK M., KÜTÜK S.  
Construction and Building Materials, vol.399, 2023 (SCI-Expanded)
3. **Investigating the effects of stimulus duration and inter-stimulus interval parameters on P300 based BCI application performance**  
AYDEMİR Ö., Saka K., ÖZTÜRK M.  
COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING, vol.25, no.14, pp.1545-1553, 2022

- (SCI-Expanded)
4. **Automatic detection of building roofs from point clouds produced by the dense image matching technique**  
ACAR H., KARSLI F., ÖZTÜRK M., DİHKAN M.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.40, no.1, pp.138-155, 2019 (SCI-Expanded)
  5. **RLGC(f) modeling of a busbar distribution system via measured S-parameters at CENELEC and FCC bands**  
HASIRCI Z., ÇAVDAR İ. H., ÖZTÜRK M.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.1, pp.489-500, 2018 (SCI-Expanded)
  6. **Automatic detection of the respiratory cycle from recorded, single-channel sounds from lungs**  
Aras S., ÖZTÜRK M., GANGAL A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.1, pp.11-22, 2018 (SCI-Expanded)
  7. **Modeling and Link Performance Analysis of Busbar Distribution Systems for Narrowband PLC**  
HASIRCI Z., ÇAVDAR İ. H., ÖZTÜRK M.  
RADIOENGINEERING, vol.26, no.2, pp.611-620, 2017 (SCI-Expanded)
  8. **Applicability Comparison of Transmission Line Parameter Extraction Methods for Busbar Distribution Systems**  
HASIRCI Z., ÇAVDAR İ. H., ÖZTÜRK M.  
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, vol.12, no.2, pp.586-593, 2017 (SCI-Expanded)
  9. **Single Tree Vegetation Depth Estimation Tool for Satellite Services Link Design**  
HASIRCI Z., ÇAVDAR İ. H., ÖZTÜRK M.  
RADIOENGINEERING, vol.25, no.1, pp.140-147, 2016 (SCI-Expanded)
  10. **A model-based edge estimation method with increased edge localization accuracy for medical images**  
ÖZTÜRK M., KAYIKÇIOĞLU T.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, no.4, pp.1127-1141, 2015 (SCI-Expanded)
  11. **A novel dynamic bandwidth selection method for thinning noisy point clouds**  
ÖZTÜRK M., HASIRCI Z.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.21, pp.2239-2258, 2013 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

1. **High Accuracy Detection of S and T Peaks in ECG Signals EKG Sinyallerinde S ve T Tepe Noktalarının Yüksek Doğrulukla Otomatik Tespiti**  
AYDIN F., Usta S., ÖZTÜRK M., Aydoğdu Ö., Kalaycıoğlu E., AYDEMİR Ö.  
32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024
2. **Sensör Tabanlı Solunum Apnesi Algılama Yöntemi**  
Atak A., Aras S., Öztürk M.  
Global Conference on Engineering Research (GLOBCEER) 2021, Samsun, Turkey, 2 - 05 June 2021, pp.609-618
3. **Classification of EEG Signals Recorded while Imagining Odors with Effective Band Pass Filter Parameters Etkin Bant Geçiren Filtre Parametreleri ile Kokuların Hayal Edildiği Sırada Kaydedilen EEG İşaretlerinin Sınıflandırılması**  
AYDEMİR Ö., Naser A., ÖZTÜRK M.  
28th Signal Processing and Communications Applications Conference, SIU 2020, Gaziantep, Turkey, 5 - 07 October 2020
4. **Automatic character extraction from handwritten scanned documents to build large scale database**

Munir U., Ozturk M.

2019 Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science, EBBT 2019, İstanbul, Turkey, 24 - 26 April 2019

5. **Real-Time Wireless Transmission of EMG Signals Acquired from Winking Gestures**  
UYAR B. B., ÖZTÜRK M.  
International Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science (EBBT), İstanbul, Turkey, 24 - 26 April 2019
6. **A Simple Yet Effective Approach for Recognition of Convex Geometric Shapes**  
Saka K., Ozturk M.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2018, Kizilcahamam, Ankara, Turkey, 19 - 21 October 2018
7. **A study of human walking biomechanics for ankle-foot prosthesis design**  
Fandaklı S., OKUMUŞ H. İ., ÖZTÜRK M.  
6th International Conference on Control Engineering and Information Technology, CEIT 2018, İstanbul, Turkey, 25 - 27 October 2018
8. **Comparison and Classification of the EEG Signals during Watching 2D and 3D Movies**  
MANSHOURİ N., MALEKİ M., ÖZTÜRK M., KAYIKÇIOĞLU T.  
7th International Conference on Advanced Technologies, Antalya, Turkey, 28 April - 01 May 2018, pp.359-362
9. **EEG Channel Localization for Brain-Computer Interface System**  
MALEKİ M., MANSHOURİ N., ÖZTÜRK M., KAYIKÇIOĞLU T.  
7th International Conference on Advanced Technologies ICAT, Antalya, Turkey, 28 April - 01 May 2018, pp.353-356
10. **Automatic Extraction of Oblique Roofs for Buildings from Point Clouds Produced by High Resolution Color-infrared Aerial Images**  
ACAR H., ÖZTÜRK M., KARSLI F., DİHKAN M.  
FIG Working Week 2017, 29 May - 02 June 2017
11. **A Segmentation Method for Asphalt Quality Analysis**  
CİVELEK Ö., ÖZTÜRK M., Kutuk T., Kutuk S.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
12. **Real-Time Pulse Counting Using Palm Images**  
Gangal O. B., ÖZTÜRK M.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
13. **Fotopletismografi İşaretleri Kullanılarak Kişinin Boyunun Belirlenmesi**  
KORKMAZ O. E., AYDEMİR Ö., ÖZTÜRK M.  
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.737-740
14. **Detection of smoking, gender and starvation - Satiety using photoplethysmogram signals**  
KORKMAZ O. E., AYDEMİR Ö., Ozturk M.  
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
15. **A Comparison of PSO, GA and Nelder-Mead Optimization Algorithms on Busbar Transmission LineParameter Extraction**  
HASIRCI Z., ÖZTÜRK M., BENVENİSTE R., KAYA H., ÇAVDAR İ. H.  
International Conference on Advanced Technology Sciences(ICAT17), İstanbul, Turkey, 9 - 12 May 2017, pp.481-485
16. **Automatic Extraction of Oblique Roofs for Buildings from Point Clouds Produced by High Resolution Colur-Infrared Aerial Images**  
ACAR H., ÖZTÜRK M., KARSLI F., DİHKAN M.  
FIG Working Week 2017, May 29, 2017 - Jun 2, 2017, Helsinki, Finland, Helsinki, Finland, 29 May - 02 June 2017, pp.9002
17. **An Automatic System for Segmentation of Aggregate and Bitumen in Asphalt Concrete Images**  
ÖZTÜRK M., CİVELEK Ö.

- 5th International Conference on Advanced Technology & Sciences (ICAT'17), İstanbul, Turkey, 9 - 12 May 2017, pp.612-614
18. **Performance Evaluation of Different Objective Functions on Busbar Transmission Line Modeling**  
HASIRCI Z., ÖZTÜRK M., KAYA H., Benveniste R., ÇAVDAR İ. H.  
40th International Conference on Telecommunications and Signal Processing (TSP), Barcelona, Spain, 5 - 07 July 2017, pp.212-215
19. **Investigating The Effects of Line Length & Branch Number on Busbar Broadband PLC Systems**  
HASIRCI Z., ÖZTÜRK M., ÇAVDAR İ. H., Benveniste R., KAYA H.  
40th International Conference on Telecommunications and Signal Processing (TSP), Barcelona, Spain, 5 - 07 July 2017, pp.247-250
20. **BİNA EĞİK ÇATILARININ YÜKSEK ÇÖZÜNÜRLÜKLÜ RENKLİ-KIZILÖTESİ GÖRÜNTÜLERDEN ÜRETİLEN YOĞUN NOKTA BULUTLARINDAN OTOMATİK ÇIKARILMASI**  
ACAR H., ÖZTÜRK M., KARSLI F., DİHKAN M.  
8. Ulusal Mühendislik Ölçmeleri Sempozyumu, İstanbul, Turkey, 19 - 21 October 2016
21. **A Statistical Approach for Vegetation Depth Distribution in HAPs Coverage Area**  
HASIRCI Z., ÖZTÜRK M., ÇAVDAR İ. H.  
39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, 27 - 29 June 2016, pp.182-186
22. **Estimation of Propagation Parameters for Aluminum Busbar up to 500 kHz**  
HASIRCI Z., ÇAVDAR İ. H., ÖZTÜRK M.  
International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Sinaia, Romania, 2 - 05 August 2016
23. **Classification of EEG Signals Recorded During Right/Left Hand Movement Imagery Using Fast Walsh Hadamard Transform Based Features**  
Saka K., AYDEMİR Ö., ÖZTÜRK M.  
39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, 27 - 29 June 2016, pp.413-416
24. **Endpoint Detection of Lung Sounds for Electronic Auscultation**  
Aras S., ÖZTÜRK M., GANGAL A.  
39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, 27 - 29 June 2016, pp.405-408
25. **The Comparison of Region Growing Algorithms with Using EMST for Point Clouds**  
HASIRCI Z., ÖZTÜRK M.  
38th International Conference on Telecommunications and Signal Processing (TSP), Prague, Czech Republic, 9 - 11 July 2015
26. **Geometrical Shape Recognition based on CDF Extreme Points Analysis**  
ÖZTÜRK M.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1449-1452
27. **Recognition of Real Time Voiced Direction Commands**  
Aras S., ÖZTÜRK M., GANGAL A.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.2245-2248
28. **THE COMPARISON OF LOCAL REGION SELECTION STRATEGIES IN POINT CLOUDS**  
HASIRCI Z., ÖZTÜRK M.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.260-264
29. **A Novel Method for Thinning Branching Noisy Point Clouds**  
HASIRCI Z., ÖZTÜRK M.  
36th International Conference on Telecommunications and Signal Processing (TSP), Rome, Italy, 2 - 04 July 2013, pp.713-716

30. **A novel method for determination of best ordering direction for noisy point clouds**  
ÖZTÜRK M., HASIRCI Z.  
International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2012, Trabzon, Turkey, 2 - 04 July 2012
31. **A curve fitting method for point clouds based on local line projections**  
ÖZTÜRK M., KAYIKÇIOĞLU T.  
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Antalya, Turkey, 20 - 22 April 2011, pp.218-221
32. **An Eigenvalue Analysis Based Bandwidth Selection Method for Curve Reconstruction from Noisy Point Clouds**  
HASIRCI Z., ÖZTÜRK M.  
34th International Conference on Telecommunications and Signal Processing (TSP), Budapest, Hungary, 18 - 20 August 2011, pp.478-482
33. **Performance Evaluation of Five Classification Algorithms in Low-Dimensional Feature Vectors Extracted From EEG Signals**  
AYDEMİR Ö., ÖZTÜRK M., KAYIKÇIOĞLU T.  
34th International Conference on Telecommunications and Signal Processing (TSP), Budapest, Hungary, 18 - 20 August 2011, pp.403-407
34. **A model-based edge detection method for medical images Tibbi görüntüler için model-esasli kenar belirleme yöntemi**  
ÖZTÜRK M., KAYIKÇIOĞLU T., Türe H.  
18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Turkey, 22 - 24 April 2010, pp.748-751
35. **EEG Based Robotic Arm Position Control**  
Öztürk M., Aydemir Ö., OKUMUŞ H. İ.  
International Symposium on INnovations in Intelligent SysTems and Applications (INISTA 2009), Trabzon, Turkey, 29 June - 01 July 2009, pp.67-70
36. **Three-dimensional reconstruction of coronary arterial segments from edges in its three images taken at arbitrary views Üç-boyutlu koroner damar parçalarının üç keyfi açıdan alınmış anjiyo görüntülerindeki kenarlardan elde edilmesi**  
Oeztuerk M., KAYIKÇIOĞLU T.  
2008 IEEE 16th Signal Processing, Communication and Applications Conference, SIU, Aydın, Turkey, 20 - 22 April 2008
37. **İşlevsel Manyetik Rezonans Görüntüleme ile Beyin Görüntülerinin İncelenmesi**  
AYDEMİR Ö., ÖZTÜRK M., HACIOĞLU G.  
URSI-Türkiye 2006, 3. Bilimsel kongresi ve 4. Ulusal genel kurul toplantısı, Ankara, Turkey, 6 - 08 September 2006, pp.213-215
38. **Sayısal Modülasyon Yöntemlerinin Spektral Etkinlikleri Bakımından İncelenmesi**  
HACIOĞLU G., AYDEMİR Ö., ÖZTÜRK M.  
URSI-Türkiye 2006, 3. Bilimsel kongresi ve 4. Ulusal genel kurul toplantısı, Ankara, Turkey, 6 - 08 September 2006, pp.580-582

## Courses

Matlab Gui ile Sinyal İşleme Uygulamaları, Doctorate, 2015 - 2016

Bilgisayar Programlama, Undergraduate, 2013 - 2014

## Scientific Refereeing

Signal, Image and Video Processing, SCI Journal, November 2015

IEEE Transactions on Image Processing, SCI Journal, October 2015

Turkish Journal of Electrical Engineering & Computer Sciences, SCI Journal, July 2014

TUBITAK Project, May 2014

## Metrics

Publication: 49

Citation (WoS): 68

Citation (Scopus): 124

H-Index (WoS): 5

H-Index (Scopus): 7

## Congress and Symposium Activities

IEEE 22. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Session Moderator, Trabzon, Turkey, 2014

## Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Pattern Recognition and Image Processing, Biomedical Engineering, Biomedical Image Processing, Biomedical Image Processing, Biosignal Processing, Biosignal Processing, Engineering and Technology