

## Assoc. Prof. MEHMET FEYZİ AKŞAHİN

### Personal Information

Office Phone: [+90 312 231 1340](tel:+903122311340)

Email: maksahin@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/maksahin>

### Education Information

Post Doctorate, State University of New York College at Buffalo, United States Of America 2013 - 2014

Doctorate, Baskent University, Institute Of Science, Turkey 2007 - 2010

Undergraduate, Baskent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1997 - 2002

### Foreign Languages

French, C1 Advanced

English, C2 Mastery

### Dissertations

Doctorate, Uyku apnesi türlerinin sınıflandırılması, Baskent University, Institute Of Science, 2010

### Research Areas

### Academic Titles / Tasks

Associate Professor, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2021 - Continues

Assistant Professor, Baskent University, Faculty Of Engineering, Department Of Biomedical Engineering, 2014 - 2021

Lecturer, Baskent University, Faculty Of Engineering, Department Of Biomedical Engineering, 2010 - 2013

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Detection of multiple sclerosis from photic stimulation EEG signals**  
Karaca B. K. , Aksahin M. F. , Ocal R.  
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.67, 2021 (Journal Indexed in SCI)
- II. **Brain tumor prediction on MR images with semantic segmentation by using deep learning network and 3D imaging of tumor region**  
Karayegen G., Aksahin M. F.  
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- III. **A novel electroencephalography based approach for Alzheimer's disease and mild cognitive impairment detection**  
Oltu B., Aksahin M. F. , Kibaroglu S.

- BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.63, 2021 (Journal Indexed in SCI)
- IV. **Quantitative sleep EEG synchronization analysis for automatic arousals detection**  
Erdamar A., Aksahin M. F.  
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.59, 2020 (Journal Indexed in SCI)
- V. **Multi-scale classification of single-cell gel electrophoresis assay using deep learning algorithm**  
Erdamar A., Aksahin M. F.  
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.56, 2020 (Journal Indexed in SCI)
- VI. **Heart sound recording and automatic S1-S2 waves detecting system design**  
Aksahin M. F. , Oltu B., Karaca B. K.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.1, pp.61-70, 2020 (Journal Indexed in SCI)
- VII. **Preoperative Ultrasound and Photoacoustic Imaging of Nonmelanoma Skin Cancers**  
Zeitouni N. C. , Rohrbach D. J. , Aksahin M. F. , Sunar U.  
DERMATOLOGIC SURGERY, vol.41, no.4, pp.525-528, 2015 (Journal Indexed in SCI)
- VIII. **Artificial Apnea Classification with Quantitative Sleep EEG Synchronization**  
Aksahin M. F. , AYDIN S., Firat H., Eroglu O.  
JOURNAL OF MEDICAL SYSTEMS, vol.36, no.1, pp.139-144, 2012 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Göz Hareketlerinin Takibi ile Bilgisayar Kontrolü**  
MENTEŞ M. F. , GÜVEN M. M. , ÖZCAN Ş. N. , AKŞAHİN M. F.  
European Journal of Science and Technology, pp.204-210, 2020 (Other Refereed National Journals)
- II. **Motor Seslerine Göre Otomobillerin Tanınması**  
KARAMAN E., Rende H., AKŞAHİN M. F.  
Engineer the Machinery Magazine, vol.60, no.695, pp.148-164, 2019 (Other Refereed National Journals)
- III. **Multifunctional Phototherapy Device Design**  
Aksahin M. F.  
ELECTRICA, vol.19, no.1, pp.65-71, 2019 (Journal Indexed in ESCI)
- IV. **Ergonomics Importance of Wearable Medical Devices**  
AKŞAHİN M. F.  
Ergonomics International Journal, vol.1, no.4, 2017 (Refereed Journals of Other Institutions)
- V. **Photodynamic Therapy-Induced Microvascular Changes in a Nonmelanoma Skin Cancer Model Assessed by Photoacoustic Microscopy and Diffuse Correlation Spectroscopy**  
Rohrbach D. J. , Salem H., Aksahin M. F. , Sunar U.  
PHOTONICS, vol.3, no.3, 2016 (Journal Indexed in ESCI)
- VI. **OBSTRUCTIVE SLEEP APNEA CLASSIFICATION WITH ARTIFICIAL NEURAL NETWORK BASED ON TWO SYNCHRONIC HRV SERIES**  
Aksahin M. F. , Erdamar A., Firat H., Ardic S., Eroglu O.  
BIOMEDICAL ENGINEERING-APPLICATIONS BASIS COMMUNICATIONS, vol.27, no.2, 2015 (Journal Indexed in ESCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Computer Control with Eye Movement Tracking**  
Menteş M. M. , Güven M. M. , Özcan Ş. N. , AKŞAHİN M. F.  
2 nd International Congress on Human-Computer Interaction, Optimization and Robotic Applications, 26 - 27 June 2020
- II. **IDFATIFICATION USING FCG SIGNALS**

Kilicer E. C. , Ay S., Aksahin M. F.

Medical Technologies National Congress (TIPTEKNO), ELECTR NETWORK, 19 - 20 November 2020

- III. **Automatic Brain Tissue Segmentation on TOF MRA Image**  
Ozen S. K. , Aksahin M. F.  
Medical Technologies National Congress (TIPTEKNO), ELECTR NETWORK, 19 - 20 November 2020
- IV. **Sleep Apnea Detection with Respiratory Modulated ECG signal**  
AKŞAHİN M. F. , ÜNCÜ Y. A.  
2nd International Conference on Technology and Science, 14 - 16 November 2019
- V. **Tek Hücreli Jel Elektroforez Testi Görüntülerinin Sınıflandırılması İçin Derin Öğrenme Tabanlı Analiz Algoritması**  
ERDAMAR A., AKŞAHİN M. F.  
20. Uluslararası Katılımlı Biyoteknoloji Kongresi, Turkey, 10 - 12 October 2019
- VI. **Investigation of EEG Signal for Diagnosis of Mild Cognitive Impairment and Alzheimer's Disease**  
Oltu B., Aksahin M. F. , Kibaroglu S.  
Medical Technologies Congress (TIPTEKNO), İzmir, Turkey, 3 - 05 October 2019, pp.495-498
- VII. **Epilepsy Classification in Ictal Stage From EEG Signals for Children**  
Recher D., Aksahin M. F.  
Medical Technologies Congress (TIPTEKNO), İzmir, Turkey, 3 - 05 October 2019, pp.172-175
- VIII. **Detection of Multiple Sclerosis Disease by EEG Coherence Analysis**  
Karaca B. K. , Aksahin M. F. , Ocal R.  
Medical Technologies Congress (TIPTEKNO), İzmir, Turkey, 3 - 05 October 2019, pp.21-24
- IX. **Detection of Hypopnea Using Respiratory Signals**  
Oktan A. D. , Aksahin M. F.  
Medical Technologies Congress (TIPTEKNO), İzmir, Turkey, 3 - 05 October 2019, pp.322-325
- X. **Neurofeedback System Design Based On Discrete Wavelet Transform**  
Ozen S. K. , Aksahin M. F.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XI. **Sleep Apnea Detection Using Blood Pressure Signal**  
Aksahin M. F. , Oltu B., Karaca B. K.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XII. **Classification of Heart Sound Recordings With Continuous Wavelet Transform Based Algorithm**  
Karaca B. K. , Oltu B., Kantar T., Kilic E., Aksahin M. F. , Erdamar A.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XIII. **Segmentation of Live and Dead Cells in Tissue Scaffolds**  
Uyar T., Erdamar A., Aksahin M. F. , GÜMÜŞDERELİOĞLU M., Irmak G., Eroglu O.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XIV. **Classification of Sleep Apnea by Photoplethysmography Signal**  
Aksahin M. F. , Karaca B. K. , Oltu B.  
Medical Technologies National Congress (TIPTEKNO), Magusa, CYPRUS, 8 - 10 November 2018
- XV. **Heart Sound Recording Device Design and, Automatic S1 and S2 Waves Detection**  
AKŞAHİN M. F. , OLTU B., KARACA B. K.  
ICAT 2017, 12 - 15 September 2017
- XVI. **Automatic Vascular Segmentation on Angio Images**  
Akshain M. F. , Ozen S. K. , Eren N. T.  
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
- XVII. **Sleep Apnea Detection Using With EEG, ECG and Respiratory Signals**  
Aksahin M. F. , Erdamar A., Isik A., Karaduman A.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XVIII. **Detection of Epilepsy Disease From EEG Signals With Artificial Neural Networks**  
Ozkan C., Dogan S., Kantar T., Aksahin M. F. , Erdamar A.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016,

pp.693-696

- XIX. Automatic detection of MC3T3 proliferation on confocal laser scanning microscope images by using image processing techniques**  
UYAR T., GÜMÜŞDERELİOĞLU M., DEMİRTAŞ T. T. , IRMAK G., ERDAMAR A., AKŞAHİN M. F. , EROĞUL O.  
BIOMED 2015, 22 - 24 October 2015
- XX. Detection of PC12 cell line proliferation on AAO membranes using image processing techniques**  
Uyar T., Erdamar A., Aksahin M. F. , Eroglu O., Altuntas S., Buyukserin F.  
European Biotechnology Congress, Bucharest, Romania, 7 - 09 May 2015, vol.208
- XXI. Uykuda Gelişen Apnenin EKG ve PPG Sinyallerini Eş Zamalı Kullanarak Sınıflandırılması**  
AKŞAHİN M. F. , ERDAMAR A., Fırat H., EROĞUL O., ARDIÇ S.  
11. Ulusal Uyku Tıbbı Kongresi, Turkey, 6 - 10 November 2010
- XXII. Classification of sleep apnea types using EEG synchronization criteria**  
AKŞAHİN M. F. , AYDIN S., Fırat H., EROĞUL O., ARDIÇ S.  
2010 15th National Biomedical Engineering Meeting, Antalya, Turkey, 21 - 24 April 2010
- XXIII. Designing 3 language talkative system of heart beater**  
Perktaş B., AKŞAHİN M. F.  
2010 15th National Biomedical Engineering Meeting, Antalya, Turkey, 21 - 24 April 2010
- XXIV. Uykuda Gelişen Apnenin Yapay Sinir Ağları Kullanarak Sınıflandırılması**  
AKŞAHİN M. F. , Fırat H., AYDIN S., EROĞUL O., ARDIÇ S.  
10. Ulusal Uyku Tıbbı Kongresi, Antalya, Turkey, 8 - 12 December 2009
- XXV. Başkent Üniversitesi Biyomedikal Mühendisliği Bölümü Tanıtımı**  
AKŞAHİN M. F. , YILMAZ B.  
IV. Elektrik Elektronik Bilgisayar Biyomedikal Mühendislikleri Eğitimi Sempozyumu, Turkey, 22 - 24 October 2009
- XXVI. Fotopletizmografi PPG sistemi Tasarımı ve İnsan Vücudundaki Oksijen Değişiminin Gözlemi**  
Altınel M. K. , AKŞAHİN M. F.  
Biyomut, Turkey, 22 - 23 May 2007

## Citations

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