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International Researcher IDs

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Research Areas

Communication Engineering, Signal Processing, Biosignal Processing, Electrical and Electronics Engineering

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Technology, Computer Engineering, 2014 - Continues

Research Assistant PhD, Marmara University, Faculty of Technology, Computer Engineering, 2009 - 2014

Research Assistant, Marmara University, Faculty of Technical Education, Electronic and Computer Education, 2002 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Feature Extraction and NN-based Enhanced Test Maneuver Deployment for 2 DoF Vehicle Simulator**
DEMİR U., AKGÜN G., AKÜNER M. C., Demirci B., AKGÜN Ö., Akıncı T. Ç.
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- II. **An Innovative Approach to Electrical Motor Geometry Generation using Machine Learning and Image Processing Techniques**
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- III. **High Order Spectral Analysis of Ferroresonance Phenomena in Electric Power Systems**
Akıncı T. Ç., AKGÜN Ö., Yılmaz M., Martinez-Morales A.
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- IV. **Determination of the Appropriate Kernel Structure in Electroencephalography Analysis of Alcoholic Subjects**
AKGÜN Ö.
TRAITEMENT DU SIGNAL, vol.37, no.4, pp.571-577, 2020 (SCI-Expanded)
- V. **Spectral and Statistical Analysis for Damage Detection in Ceramic Materials**
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TRAITEMENT DU SIGNAL, vol.37, no.1, pp.9-16, 2020 (SCI-Expanded)
- VI. **Analysis of instantaneous frequency, instantaneous amplitude and phase angle of ferroresonance in electrical power networks'**

- Akgün Ö., Akıncı T. Ç., Erdemir G., Şeker Ş. S.
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- VII. **Analysis of Gait Dynamics of ALS Disease and Classification of Artificial Neural Networks**
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TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.25, pp.183-187, 2018 (SCI-Expanded)
- VIII. **Detection of Mitral Valve Diseases by Bicoherence Analysis of Heart Sound Signals**
Akgun Ö., Varol H. S.
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.37, no.10, pp.3270-3273, 2017 (SCI-Expanded)
- IX. **Fast fourier transformation of emitted noises from welding machines and their classification with acoustic method**
Gokmen G., Akgun Ö., Akıncı T. C., Seker S.
MECHANIKA, vol.23, no.4, pp.588-593, 2017 (SCI-Expanded)
- X. **The defect detection in ceramic materials based on wavelet analysis by using the method of impulse noise**
AKGÜN Ö., AKINCI T. Ç., NOĞAY H. S., Seker S.
JOURNAL OF VIBROENGINEERING, vol.15, no.2, pp.816-823, 2013 (SCI-Expanded)
- XI. **Time frequency analysis of patent ductus arteriosus disease in dogs**
AKGÜN Ö., Varol H. S.
PRZEGLAD ELEKTROTECHNICZNY, vol.88, pp.309-313, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **EEG İşaretlerinin Hilbert Huang Dönüşümü ve Sınıflandırılması**
AKGÜN G., AKGÜN Ö.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.22, no.6, pp.1323-1333, 2022 (Peer-Reviewed Journal)
- II. **ANALYSIS OF HEART SOUND SIGNALS IN EBSTEIN'S ANOMALY**
AKGÜN Ö.
The Journal of Cognitive Systems, vol.6, no.1, pp.1-6, 2022 (Peer-Reviewed Journal)
- III. **Electrode Area Analysis of EEG Signals Received from Schizophrenic Individuals**
AKGÜN Ö.
European Journal of Technique, 2022 (Peer-Reviewed Journal)
- IV. **EFFECTS OF REAL AND IMAGINARY HAND MOVEMENTS ON EEG**
AKGÜN Ö.
THE JOURNAL OF COGNITIVE SYSTEMS, vol.5, no.2, pp.94-98, 2020 (Peer-Reviewed Journal)
- V. **Damage Detection in Ceramic Materials Using Bicoherence Analysis**
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Balkan Journal of Electrical and Computer Engineering, vol.8, no.4, pp.300-306, 2020 (Peer-Reviewed Journal)
- VI. **The Spectral and Statistical Analysis of GaitDynamics in ALS Disease**
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Balkan Journal of Electrical and Computer Engineering, vol.8, no.2, pp.142-146, 2020 (Peer-Reviewed Journal)
- VII. **IDENTIFICATION OF PARKINSON'S DISEASE BY AR MODELLING OF GAIT SIGNALS**
AKGÜN Ö., AKAN A.
European Journal of Technique, vol.10, no.1, pp.153-159, 2020 (Peer-Reviewed Journal)
- VIII. **Bispectrum and Energy Analysis of Wind SpeedData**
AKINCI T. Ç., ŞEKER Ş. S., AKGÜN Ö., Dikun J., ERDEMİR G.
International Journal of Electrical Energy, vol.5, pp.87-91, 2017 (Peer-Reviewed Journal)
- IX. **Nörodejenaratif Hastalarda Yürüme İşaretlerinin Zaman Frekans Analizi**
AKGÜN Ö., AKAN A., DEMİR H.
Kırklareli Üniversitesi Mühendislik ve Fen Bilimleri Dergisi, 2015 (Peer-Reviewed Journal)

- X. **Detection of Atrial Septal Defect by Heart Sound Signal Analysis and its Relation with Tricuspid Failure**
AKGÜN Ö., VAROL H. S.
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- XI. **ANALYSIS OF SOUNDS GENERATED FROM WELDING MACHINE WHILE IN IDLE AND OPERATIONAL MODE BY ACOUSTIC METHOD**
GÜNAYDIN L., AKINCI T. Ç., KOÇYİĞİT G., GÖKMEN G., AKGÜN Ö.
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Books & Book Chapters

- I. **Wind Speed Analysis Using Signal Processing Technique**
Akgün Ö., Akıncı T. Ç.
in: Renewable Energy - Resources, Challenges and Applications, Mansour Al Qubeissi, Ahmad El-kharouf, Hakan Serhad Soyhan, Editor, IntechOpen, Birmingham, pp.36-49, 2020
- II. **Çok Çözünürlüklü Dalgacık Analizi ile İstanbul Rüzgar Hızı Analizi**
Kulaklı G., İlaslan M. F., Akgün Ö., Akıncı T. Ç.
in: Mühendislikte Yeni Yaklaşımlar, Dr. Mine Nazan Kerimak ÖNER, Dr. Recep Onur UZUN, Editor, Berikan Elektronik Basım Yayın, Ankara, pp.255-266, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Time-Frequency Analysis of Breathing Sounds in Bronchiectasis Disease**
AKGÜN Ö.
4th International Conference on Advanced Engineering Technologies (ICADET), 28 September 2022, pp.592-597
- II. **Spectral Analysis of Alcoholic Data**
AKGÜN Ö., AKINCI T. Ç.
International Conference on Engineering Technologies (ICENTE'xx20), Konya, Turkey, 19 - 21 November 2020, pp.22-26
- III. **ARİTMETİK İŞLEM TABANLI EEG SİNYALLERİNİN ÖZNETELİKLERİNİN ANALİZİ**
KARA O., AKGÜN Ö.
4. INTERNATIONAL 19 MAY INNOVATIVE SCIENTIFIC APPROACHES CONGRESS, Samsun, Turkey, 21 - 22 December 2020, pp.125-132
- IV. **THE BURG POWER ESTIMATION ANALYSIS IN ASTHMA AND COPD DISEASES**
AKGÜN Ö.
International Scientific and Practical Internet Conference, Dnipro, Ukraine, 3 - 04 December 2020
- V. **EEG SIGNAL ANALYSIS WHILE LISTENING TO MUSIC AND READING BOOKS**
AKGÜN Ö.
5th INTERNATIONAL GAP MATHEMATICS-ENGINEERING-SCIENCE AND HEALTH SCIENCES CONGRESS, Şanlıurfa, Turkey, 4 - 06 December 2020
- VI. **TIME, AMPLITUDE SPECTRUM AND PHASE SPECTRUM ANALYSIS OF EPILEPTIC EEG SIGNALS**
AKGÜN Ö.
EUROASIA CONGRESS ON SCIENTIFIC RESEARCHES AND RECENT TRENDS-VII, Baku, Azerbaijan, 6 - 09 December 2020
- VII. **Sistolik Kalp Üfürümlerinin Bode Diyagramları ile Analizi**
AKGÜN Ö., İLASLAN M. F., AKINCI T. Ç.
1. ULUSAL MÜHENDİSLİK VE TEKNOLOJİ KONGRESİ-UMTK, Turkey, 17 - 19 October 2019
- VIII. **Parkinson Tremorunun Beyin Uyarımlarına Verdiği Cevabın Bölgelere Göre Analizi**
AKGÜN Ö., AKINCI T. Ç., İLASLAN M. F.

1. ULUSAL MÜHENDİSLİK VE TEKNOLOJİ KONGRESİ- UMTK, Turkey, 17 - 19 October 2019
- IX. **Kalp Kapak Darlığı ve Yetmezliklerinin Sıfır-Kutup Haritaları İle Belirlenmesi**
AKGÜN Ö., VAROL H. S., İLİSLAN M. F., KULAKLI G., AKINCI T. Ç.
4. Uluslararası Bilimsel Araştırmalar Kongresi (UBAK), 14 February - 17 September 2019
- X. **Higher Order Spectral Analysis of Ventricular Arrhythmic ECG Signals with MATLAB HOSA Toolbox**
SAYIN F. S., AKGÜN Ö.
6th International Conference on Control Engineering and Information Technologies, İstanbul, Turkey, 25 - 27 October 2018
- XI. **EKG'den Wavelet Dönüşümü Yardımı ile Transmural Miyokard İskemisinin Belirlenmesi**
ÇANAYAZ E., AKGÜN Ö.
EEMKON 2017, Turkey, 16 - 18 November 2017
- XII. **Heart Sound Signals Obtained from Stethoscope with Wavelet Analysis Method**
AKGÜN Ö., VAROL H. S., AKINCI T. Ç., GUSEİNOVİENE E.
International Conference on Technics, Technologies and Education, YAMBOL, Bulgaria, 30 - 31 October 2013
- XIII. **Elimination of Noise from Heart Sound Signals Obtained with Stethoscope by Using Wavelet Filters**
AKGÜN Ö., VAROL H. S.
The Fifth International Symposium on Wavelets Applications to World Problems, İstanbul, Turkey, 7 - 08 June 2010
- XIV. **Determination Of Mitral or Aortic Valve Stenosis or Insufficiency Via Pole Zero Map Analysis of Heart Sound Signals**
AKGÜN Ö., VAROL H. S.
5th International Advanced Technologies Symposium, Karabük, Turkey, 13 - 15 May 2009
- XV. **Determining The Degree Of Aortic Stenosis Caused By The Bicuspid Valve With Bispectral Analysis Of Heart Sound Signals**
AKGÜN Ö., VAROL H. S.
5th International Advanced Technologies Symposium, Karabük, Turkey, 13 - 15 May 2009
- XVI. **The Diagnosis Of Huntington's Disease Via High Order Spectral Moments**
AKGÜN Ö., DEMİR H., AKAN A.
5th International Advanced Technologies Symposium, Karabük, Turkey, 13 - 15 May 2009
- XVII. **Yürüme İşaretlerinin Ar Modelleri ile ALS Hastalığının Belirlenmesi**
AKGÜN Ö., DEMİR H., AKAN A.
Elektrik, Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 26 - 30 November 2008

Metrics

Publication: 41

Citation (WoS): 3

Citation (Scopus): 8

H-Index (WoS): 1

H-Index (Scopus): 2