

Asst. Prof. EDA AKMAN AYDIN

Personal Information

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Education Information

Doctorate, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 2009 - 2015

Postgraduate, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 2007 - 2009

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 2003 - 2007

Certificates, Courses and Trainings

IT, 9th IEEE-EMBS International Summer School on Biomedical Signal Processing- Biomedical Signal Processing in Neuroengineering: Enabling Technologies for Rehabilitation, Italy, 2015

Dissertations

Doctorate, Ortam kontrol uygulamasına yönelik p300 tabanlı asenkron beyin bilgisayar arayüzü tasarımı ve uygulaması, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, 2015

Postgraduate, Ultrasonik yöntem ile dişeti kalınlığının belirlenmesi, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, 2009

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Human Computer Interaction, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2021 - Continues

Research Assistant, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2017 - 2021

Research Assistant, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi, 2007 - 2017

Courses

ELEKTRONİK -II, Undergraduate, 2020 - 2021

ELEKTRONİK LAB.-II, Undergraduate, 2020 - 2021

MÜHENDİSLİK TASARIMI, Undergraduate, 2020 - 2021

ELEKTRONİK LAB-II, Undergraduate, 2020 - 2021

EE 338 MÜHENDİSLİK TASARIMI, Undergraduate, 2017 - 2018
Haberleşme Sistemleri Lab. II, Undergraduate, 2017 - 2018
EE 324 HABERLEŞME SİSTEMLERİ LAB-II, Undergraduate, 2017 - 2018
EE-322 HABERLEŞME SİSTEMLERİ-II, Undergraduate, 2017 - 2018
Haberleşme Sistemleri II, Undergraduate, 2017 - 2018
EE 208 ELEKTRONİK LAB-II, Undergraduate, 2017 - 2018
EE-417 SAYISAL ELEKTRONİK, Undergraduate, 2017 - 2018

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

- I. **Subject-Specific feature selection for near infrared spectroscopy based brain-computer interfaces**
AKMAN AYDIN E.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.195, 2020 (Journal Indexed in SCI)
- II. **P300-Based Asynchronous Brain Computer Interface for Environmental Control System**
AKMAN AYDIN E., BAY Ö. F., GÜLER İ.
IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS, vol.22, no.3, pp.653-663, 2018 (Journal Indexed in SCI)
- III. **Implementation of an Embedded Web Server Application for Wireless Control of Brain Computer Interface Based Home Environments**
AKMAN AYDIN E., BAY Ö. F., GÜLER İ.
JOURNAL OF MEDICAL SYSTEMS, vol.40, no.1, 2016 (Journal Indexed in SCI)
- IV. **DESIGN OF PIC-CONTROLLED PULSED ULTRASONIC TRANSMITTER FOR MEASURING GINGIVA THICKNESS**
AKMAN AYDIN E., GÜLER İ.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.38, no.6, pp.411-420, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Classification of Mental Workload Levels by Using EEG Signals**
Akman Aydın E.
Politeknik Dergisi, vol.24, no.2, pp.681-689, 2021 (Journal Indexed in ESCI)
- II. **A Visual Stimulus Module for P300 Based Brain Computer Interfaces**
AKMAN AYDIN E., GÜLER İ.
International Journal of Applied Mathematics, Electronics and Computers, vol.4, pp.128-132, 2016 (Refereed Journals of Other Institutions)
- III. **Recent Advances on Body Heat Powered Medical Devices**
AKMAN AYDIN E., GÜLER İ.
Recent Patents on Biomedical Engineering, vol.4, no.1, pp.33-37, 2011 (Refereed Journals of Other Institutions)
- IV. **Biyomedikal Mühendisliğinde Uzaktan Eğitim Çalışmaları**
AKMAN AYDIN E., GÜLER İ.
Bilişim Teknolojileri Dergisi, vol.1, no.2, pp.47-52, 2008 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Dynamic Time Warping Based Feature Extraction for Motor Imagery-Near Infrared Spectroscopy Signals**
AKMAN AYDIN E.
8th International Conference on Advanced Technologies (ICAT'2019), Bosnia And Herzegovina, 26 - 30 August

2019, pp.298-303

- II. **Analysis of Asynchronous Brain Computer Interface Using Discrete Wavelet Transform**
AKMAN AYDIN E., BAY Ö. F. , GÜLER İ.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- III. **A Dynamic Stopping Algorithm for P300 Based Brain Computer Interface Systems**
AKMAN AYDIN E., BAY Ö. F. , GÜLER İ.
International Conference on Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH), Sarajevo, Bosnia And Herzegovina, 16 - 18 March 2017, vol.62, pp.723-728
- IV. **Comparison of P300 Based Synchronous and Asynchronous Brain Computer Interface**
AKMAN AYDIN E., BAY Ö. F. , GÜLER İ.
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
- V. **A visual Stimulus Module for P300 Based brain Computer Interfaces**
AKMAN AYDIN E., GÜLER İ.
International Conference on Advanced Technology & Sciences, 1 - 03 September 2016, pp.1315-1320
- VI. **P300 Olaya İlişkin Potansiyellerin Ayrık Dalgacık Dönüşümü ile Sınıflandırılması**
AKMAN AYDIN E., BAY Ö. F. , GÜLER İ.
23rd Signal Processing and Communications Applications Conference, 16 - 19 May 2015
- VII. **Region Based Brain Computer Interface for A Home Control Application**
AKMAN AYDIN E., BAY Ö. F. , GÜLER İ.
37th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Milan, Italy, 25 - 29 August 2015, pp.1075-1078
- VIII. **Classification of P300 Event Related Potentials with Discrete Wavelet Transform**
AKMAN AYDIN E., BAY Ö. F. , GÜLER İ.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1200-1203
- IX. **Effectiveness and Usability of Multimedia Materials on Biomedical Instrumentation Education**
AKMAN AYDIN E., IŞIK A. H. , GÜLER İ.
2nd International Engineering Education Conference, 31 October - 03 November 2012
- X. **Collaborative E Learning Environment for Biomedical Specialists Training**
IŞIK A. H. , AKMAN AYDIN E., ÇETİN A.
Interactive Computer Aided Learning-ICL2010, 15 - 17 September 2010, pp.331-336
- XI. **A WEB3D Application in Biomedical Engineering Education**
AKMAN AYDIN E., IŞIK A. H. , ÇETİN A., GÜLER İ.
Interactive Computer Aided Learning-ICL2010, 15 - 17 September 2010, pp.190-194
- XII. **Pic Kontrollü Kardiyoverter Tasarımı**
AKMAN AYDIN E., FİDAN U., GÜLER İ.
Biyomedikal Mühendisliği Ulusal Toplantısı, Turkey, 22 - 23 May 2007, pp.179-183

Supported Projects

Akman Aydın E., Aydoğan İ., TUBITAK Project, Parmak Hareketlerinin Çözümlemesine Dayalı Çok Kanallı EMG Cihazı Tasarımı, 2020 - 2021

Akman Aydın E., Özlük Y., TUBITAK Project, Kafa Hareketleri İle Kontrol Edilen Bulanık Mantık Tabanlı İnsan-Makine Arayüzü Tasarımı, 2020 - 2021

AKMAN AYDIN E., Project Supported by Higher Education Institutions, Hareket Hayaline Dayalı Yakın Kızılötesi Spektroskopi Sinyallerinin Sınıflandırılması, 2019 - 2019

AKMAN AYDIN E., TUBITAK Project, Görsel Algı İle Elde Edilen Fizyolojik Sinyallerin İşaret İşleme Teknikleri Kullanılarak Değerlendirilmesi, 2012 - 2014

AKMAN AYDIN E., TUBITAK Project, Görsel Oddball Paradigması Kullanılarak P300 Olaya İlişkin Potansiyellerin Algılanması ve İşlenmesi, 2012 - 2013

Akman Aydın E., Güler İ., EU Supported Other Project, Web Based Training of Biomedical Specialists Application to Biomedical Device Technology Teachers of Vocational High Schools Connected to Ministry of National Education WEBD, 2008 - 2010

Patent

AKMAN AYDIN E., BAY Ö. F. , KONTROL UYGULAMALARINA YÖNELİK ASENKRON BEYİN BİLGİSAYAR ARAYÜZÜ, Patent, CHAPTER H Electricity, 2018

Scientific Refereeing

COMPUTERS IN BIOLOGY AND MEDICINE, SCI Journal, March 2021

POLİTEKNİK DERGİSİ, National Scientific Refreed Journal, July 2020

IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS, SCI Journal, June 2020

BIOMEDICAL SIGNAL PROCESSING AND CONTROL, SCI Journal, March 2020

MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, SCI Journal, March 2020

ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, SCI Journal, January 2020

IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING, SCI Journal, February 2019

GAZİ UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, December 2017

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, December 2017

Tasks In Event Organizations

Akman Aydın E., 14th International Conference on Bio-inspired Systems and Signal Processing BIOSIGNALS, Scientific Congress, Turkey, Şubat 2021

Akman Aydın E., 13th International Conference on Bio-inspired Systems and Signal Processing BIOSIGNALS-2020, Scientific Congress, Malta, Şubat 2020

Akman Aydın E., 12. International Conference on Bio-inspired Systems and Signal Processing -BIOSIGNALS 2019 , Scientific Congress, Czech Republic, Şubat 2019

Citations

Total Citations (WOS):54

h-index (WOS):4

Scholarships

TUBİTAK, 2010 - 2015