

## Personal Information

**Office Phone:** [+90 216 500 4175](tel:+902165004175)

**Email:** Sinem.Erdogan@acibadem.edu.tr

**Web:** <https://avesis.acibadem.edu.tr/847>

**Post Address:** Acibadem Mehmet Ali Aydınlar Üniversitesi Kerem Aydınlar Kampüsü 32 Kayışdağı Cad. 34752 Ataşehir/İstanbul

## Education Information

Post Doctorate, Harvard University, Medical School, Optomagnetic Research Group, United States Of America 2014 - 2016

Doctorate, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, Turkey 2007 - 2014

Post Graduate, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, Turkey 2005 - 2007

Under Graduate, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey 2001 - 2005

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, An fmri based method for characterizing superficial layer contamination in fnirs signals, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, 2014

Post Graduate, Evaluation of local oxygen consumption in human flexor digitorum superficialis muscle by near infrared spectroscopy, Bogazici University, Institute Of Biomedical Engineering, 2007

## Research Areas

Health Sciences, Engineering and Technology

## Academic Titles / Tasks

Assistant Professor, Acibadem Mehmet Ali Aydınlar University, Mühendislik Fakültesi, Tıp Mühendisliği Bölümü, 2016 - Continues

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

- **Classification of motor imagery and execution signals with population-level feature sets: implications for probe design in fNIRS based BCI**  
ERDOĞAN S. B. , Ozsarfatı E., Dilek B., Kadak K. S. , Hanoglu L., AKIN A.  
JOURNAL OF NEURAL ENGINEERING, vol.16, 2019 (Journal Indexed in SCI)
- **The hemodynamic effects of occlusal splint therapy on the masseter muscle of patients with myofascial pain accompanied by bruxism.**  
İspirgil E., Erdoğan S. B. , Akın A., Şakar O.  
Cranio : the journal of craniomandibular practice, pp.1-10, 2018 (Journal Indexed in SCI)

- **Systemic Low-Frequency Oscillations in BOLD Signal Vary with Tissue Type**  
Tong Y., Hocke L. M. , Lindsey K. P. , Erdogan S. B. , Vitaliano G., Caine C. E. , Frederick B. d.  
FRONTIERS IN NEUROSCIENCE, vol.10, 2016 (Journal Indexed in SCI)
- **Correcting for Blood Arrival Time in Global Mean Regression Enhances Functional Connectivity Analysis of Resting State fMRI-BOLD Signals**  
Erdogan S. B. , Tong Y., Hocke L. M. , Lindsey K. P. , Frederick B. d.  
FRONTIERS IN HUMAN NEUROSCIENCE, vol.10, 2016 (Journal Indexed in SCI)
- **Analysis of task-evoked systemic interference in fNIRS measurements: Insights from fMRI**  
Erdogan S. B. , Yucel M. A. , Akin A.  
NEUROIMAGE, vol.87, pp.490-504, 2014 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

- **Effects of a tailored exercise program in knee osteoarthritis patients with chronic pain: an fNIRS study**  
Öztürk Ö., Algun Z. C. , Erdoğan S. B. , Bombacı H.  
11 th Congress of the European Pain Federation, Valencia, Spain, 4 - 07 September 2019, pp.10-11
- **DETECTING LATERIZATION OF HAEMODYNAMIC RESPONSE DURING EXECUTIVE MOTOR TASK AND MOTOR IMAGERY WITH FNIRS**  
Gokdag Y. E. , Sansal F., Dumlu S. N. , Erdogan S. B. , Yilmaz O., Akin A.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.2118-2121
- **Translating fMRI to fNIRS**  
Tumer A., Erdogan S. B. , Akin A.  
6th International IEEE EMBS Conference on Neural Engineering (NER), California, United States Of America, 6 - 08 November 2013, pp.493-496
- **INVESTIGATION OF THE NEURONAL EFFICACY AND EEG SOURCE POWER UNDER STEADY-STATE VISUAL STIMULATION**  
Duru A. D. , Erdogan S. B. , Kasikci I., Bayram A., Ademoğlu A., Demiralp T.  
33rd Annual International Conference of the IEEE Engineering-in-Medicine-and-Biology-Society (EMBS), Massachusetts, United States Of America, 30 August - 03 September 2011, pp.6576-6579
- **Investigation of the Effect of Playing Video Games on Visual Attention and Brain Hemodynamics with Functional Near Infrared Spectroscopy**  
Erdogan S. B. , Bilgin C., Turan B., Akin A.  
22nd Annual Meeting of the IEEE-Photonics-Society, Belek, Turkey, 4 - 08 October 2009, pp.272-273

## Supported Projects

Erdoğan S. B. , Güntekin B., Hanoğlu L., TÜBİTAK Project, Alzheimer ve Frontotemporal Demans'xta Görülen Metafor Dilinin İşlenmesi ve Bu İki Farklı Patoloji Durumunda (AH ve FTD) Ortaya Çıkan Bozulmaların Fiziopatolojisinin Elektroensefalografi (EEG) ve Near Infrared Spectroscopy (NIRS) Yöntemleriyle Araştırılması, 2017 - 2020

Öztürk Ö., Erdoğan S. B. , TÜBİTAK Project, Diz Osteoartriti Olan Olgularda "Hareketin Gözlemlenmesi" Yönteminin Ağrı, Fonksiyonel Düzey ve Beyin Hemodinamiği Üzerine Etkileri, 2018 - 2019

## Citations

Total Citations (WOS):63  
h-index (WOS):3

## Awards

Erdođan S. B. , Physiological Denoising of Functional Near Infrared Spectroscopy (fNIRS) and Functional Magnetic Resonance Imaging (fMRI) Signals with 'Regressor Interpolation at Progressive Time Delays (RIPTiDe)' Technique (supported by the BIDEB 2219 Program of Scientific and Technological Research Council of Turkey, September 2014 – September 2015), Bideb, June 2014