

## **Assoc. Prof. SİNEM BURCU ERDOĞAN**

### **Personal Information**

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

### **International Researcher IDs**

ScholarID: y95pTpcAAAAJ

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Publons / Web Of Science ResearcherID: CAH-7756-2022

ScopusID: 35100265300

Yoksis Researcher ID: 142835

### **Education Information**

Doctorate, Bogazici University, Institute Of Biomedical Engineering, Biyomedikal Mühendisliği (YI) (Tezli), Turkey 2007 - 2014

Postgraduate, Bogazici University, Institute Of Biomedical Engineering, Turkey 2005 - 2007

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

### **Foreign Languages**

English, C2 Mastery

### **Dissertations**

Doctorate, An fmri based method for characterizing superficial layer contamination in fnirs signals, Bogazici University, Biyomedikal Mühendisliği Enstitüsü, Biyomedikal Mühendisliği (YI) (Tezli), 2014

Postgraduate, Evaluation of local oxygen consumption in human flexor digitorum superficialis muscle by near infrared spectroscopy, Bogazici University, Biyomedikal Mühendisliği Enstitüsü, 2007

### **Research Areas**

Biomedical Engineering, bioPhotonic, Biomedical Image Processing, Biosignal Processing, Engineering and Technology

### **Academic Titles / Tasks**

Assistant Professor, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2016 - Continues

Research Assistant, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, 2007 - 2014

## Academic and Administrative Experience

Internship Committee Member, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues

Staj Koordinatörü, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues

Fakülte Kurulu Üyesi, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues

Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Üyesi, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues

Bölüm Kalite Komisyonu Üyesi, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues

Bölüm Stratejik Plan Komisyonu Üyesi, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues

Ethics Committee Member, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2021 - 2023

## Courses

İleri Radyoloji Teknolojileri, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Functional Neuroimaging, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018

Tez Dersi, Postgraduate, 2021 - 2022

Professional Enrichment, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Medical İmaging, Undergraduate, 2021 - 2022, 2020 - 2021

Advanced Human Physiology, Doctorate, 2022 - 2023, 2021 - 2022

HUMAN ANATOMY AND PHYSIOLOGY, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Radiology Technologies, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

HUMAN PHYSIOLOGY, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Sistem Fizyolojisi, Undergraduate, 2018 - 2019

Tıbbi Malzemeler ve Cihazlar, Undergraduate, 2017 - 2018

## Advising Theses

Erdoğan S. B., Yıldırım F., Evaluation of Human and Robot Faces &Voices via Behavioral and Neuroimaging Methods , Doctorate, E.Yorgancıgil(Student), 2021

Akın A., Erdoğan S. B., TASK INDUCED BRAIN ACTIVATION ANALYSIS WITH GLOBAL EFFICIENCY METRIC DURING STROOP TASK, Postgraduate, B.Tatlıeşme(Student), 2020

Erdoğan S. B., EVALUATION OF BEST PREPROCESSING PRACTICES FOR DENOISING FNIRS SIGNALS COLLECTED DURING COGNITIVE AND MOTOR TASKS, Postgraduate, U.KARADENİZ(Student), 2020

## Jury Memberships

Post Graduate, Post Graduate, Sabancı Üniversitesi, August, 2022

Doctorate, Doctorate, Yeditepe Üniversitesi, July, 2022

Post Graduate, Post Graduate, Acibadem Mehmet Ali Aydınlar University, April, 2022

Doctorate, Doctorate, Yeditepe Üniversitesi, April, 2022

Doctoral Examination, Doctoral Examination, Acibadem Mehmet Ali Aydınlar University, December, 2021

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

- I. **A new system for cuffless blood pressure measurement**  
ANKIŞHAN H., ARI F., Celik H., Frederick B. B., Hocke L. M., ERDOĞAN S. B., ÜNAL M. A.  
APPLIED ACOUSTICS, vol.212, 2023 (SCI-Expanded)
- II. **An Exploratory Analysis of the Neural Correlates of Human-Robot Interactions With Functional Near Infrared Spectroscopy**  
Yorgancigil E., Yildirim F., Urgen B. A., ERDOĞAN S. B.  
FRONTIERS IN HUMAN NEUROSCIENCE, vol.16, 2022 (SCI-Expanded)
- III. **Four-Class Classification of Neuropsychiatric Disorders by Use of Functional Near-Infrared Spectroscopy Derived Biomarkers**  
ERDOĞAN S. B., YUKSELEN G.  
SENSORS, vol.22, no.14, 2022 (SCI-Expanded)
- IV. **Effect of Painful Electrical Stimuli on Readiness Potential in the Human Brain.**  
Dilek B., Osumi M., Nobusako S., Erdoğan S. B., Morioka S.  
Clinical EEG and neuroscience, vol.53, no.2, pp.114-123, 2022 (SCI-Expanded)
- V. **Identification of impulsive adolescents with a functional near infrared spectroscopy (fNIRS) based decision support system**  
ERDOĞAN S. B., YUKSELEN G., Yegul M. M., Usanmaz R., Kiran E., DERMAN O., AKIN A.  
JOURNAL OF NEURAL ENGINEERING, vol.18, no.5, 2021 (SCI-Expanded)
- VI. **Changes in prefrontal cortex activation with exercise in knee osteoarthritis patients with chronic pain: An fNIRS study**  
ÖZTÜRK Ö., ALGUN Z. C., Bombaci H., ERDOĞAN S. B.  
JOURNAL OF CLINICAL NEUROSCIENCE, vol.90, pp.144-151, 2021 (SCI-Expanded)
- VII. **Functional Near-Infrared Spectroscopy Indicates That Asymmetric Right Hemispheric Activation in Mental Rotation of a Jigsaw Puzzle Decreases With Task Difficulty**  
Mutlu M. C., ERDOĞAN S. B., Öztürk O. C., Canbeyli R., Saybaşılı H.  
Frontiers in Human Neuroscience, vol.14, 2020 (SCI-Expanded)
- VIII. **The hemodynamic effects of occlusal splint therapy on the masseter muscle of patients with myofascial pain accompanied by bruxism**  
İspirgil E., Erdoğan S. B., Akin A., Şakar O.  
CRANIO-THE JOURNAL OF CRANIOMANDIBULAR & SLEEP PRACTICE, vol.38, no.2, pp.99-108, 2020 (SCI-Expanded)
- IX. **Classification of motor imagery and execution signals with population-level feature sets: implications for probe design in fNIRS based BCI**  
ERDOĞAN S. B., Ozsarfati E., Dilek B., Kadak K. S., Hanoglu L., AKIN A.  
JOURNAL OF NEURAL ENGINEERING, vol.16, no.2, 2019 (SCI-Expanded)
- X. **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 (SCI-Expanded)
- XI. **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 (SCI-Expanded)
- XII. **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 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Identification of the hemodynamic correlates of basic emotional states with a mobile functional near infrared spectroscopy system**  
ERDOĞAN S. B.  
ACTA MEDICA ALANYA, vol.6, no.2, pp.159-166, 2022 (Peer-Reviewed Journal)
- II. **Effects of Single-Task, Dual-Task and Successive Physical-Cognitive Training on Fall Risk and Balance Performance in Older Adults: A Randomized Trial**  
ATAŞ BALCI L., SOĞUKKANLI KADAK K., ERDOĞAN S. B., HANOĞLU L.  
Journal of Exercise Therapy and Rehabilitation, vol.9, no.1, pp.1-11, 2022 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Assessment of Neurovascular Reactivity during Physiological Tasks with fNIRS**  
Yorgancıgil E., Akin A., Erdoğan S. B., Yukselen G.  
20. Ulusal Sinirbilim Kongresi, İstanbul, Turkey, 19 - 23 October 2022, pp.150
- II. **An fNIRS-based BCI System for Identification of Neuropsychiatric Disorders**  
Yukselen G., Erdoğan S. B.  
20. Ulusal Sinirbilim Kongresi, İstanbul, Turkey, 19 - 23 October 2022, pp.119
- III. **Validity of fNIRS method in Assessing Cerebrovascular Reactivity in Prefrontal and Occipital Cortex of the Brain**  
Yorgancıgil E., Erdoğan S. B., Yukselen G., Akin A.  
3rd International Webinar on Cognitive and Behavioral Neurosciences, 15 - 16 June 2022, pp.35
- IV. **DECODING OF EMOTIONAL STATES WITH A FUNCTIONAL NEAR INFRARED SPECTROSCOPY SYSTEM**  
ERDOĞAN S. B.  
6th INTERNATIONAL EUROPEAN CONFERENCE ON INTERDISCIPLINARY SCIENTIFIC RESEARCH, Bucharest, Romania, 26 - 27 August 2022, pp.136
- V. **IDENTIFICATION OF NEUROPSYCHIATRIC DISORDERS WITH A FUNCTIONAL NEAR INFRARED SPECTROSCOPY (FNIRS) BASED BRAIN COMPUTER INTERFACE SYSTEM**  
ERDOĞAN S. B.  
2. INTERNATIONAL MEDITERRANEAN SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Girne, Cyprus (Kktc), 30 - 31 July 2022, pp.557-567
- VI. **An fNIRS-based BCI System for Identification of Impulsivity in Adolescents**  
YÜKSELEN G., ERDOĞAN S. B., DERMAN O., AKIN A.  
3rd Edition of International Webinar on Cognitive and Behavioral Neurosciences, 15 - 16 June 2022, pp.37
- VII. **Metaphor Comprehension in Alzheimer's Disease and Behavioral-variant Frontotemporal Dementia:a Concurrent EEG-fNIRS study.**  
Erdoğan S. B.  
FENS 2020, Edinburgh, United Kingdom, 11 - 15 July 2020, pp.1-3
- VIII. **Machine learning based prediction of motor imagery and motor execution tasks from functional near infrared spectroscopy signals**  
Aslan O., Kurtoglu K. K., Yeşilalan K., ERDOĞAN S. B.  
Optics and the Brain, BRAIN 2020, Washington, United States Of America, 20 - 23 April 2020, vol.Part F176-BRAIN-2020, no.1
- IX. **Effects of a tailored exercise program in knee osteoarthritis patients with chronic pain: an fNIRS study**  
Öztürk Ö., Algin Z. C., Erdoğan S. B., Bombacı H.  
11 th Congress of the European Pain Federation, Valencia, Spain, 4 - 07 September 2019, pp.10-11
- X. **Effects of tailored exercise program in knee osteoarthritis patients with chronic pain: a FNIRS Study.**

ÖZTÜRK Ö., ALGUN Z. C., ERDOĞAN S. B., BOMBACI H.

11th Congress of the European Pain Federation EFIC, 4 - 07 September 2019

- XI. **Understanding of the neural correlates of Turkish conceptual metaphors by using fNIRS method in elderly healthy native speakers**  
DİKMEN M., KARAKULAK E. Z., SOĞUKKANLI KADAK K., ERDOĞAN S. B., HANOĞLU L.  
20. Ulusal Anatomi Kongresi, İstanbul, Turkey, 27 - 31 August 2019, vol.13, pp.147
- XII. **Subband Analysis of fNIRS Signals**  
ŞAUL C. J., ERDOĞAN S. B., AKIN A.  
The fNIRS2018 conference, Tokyo, Japan, 5 - 08 October 2018
- XIII. **Assessing Alterations in Functional Activation and Connectivity Metrics in Schizophrenia with fNIRS**  
ERDOĞAN S. B., AKIN A.  
The fNIRS2018 conference, Tokyo, Japan, 5 - 08 October 2018
- XIV. **Improving Sensitivity of Task-fMRI Signals by Use of Time Delayed Systemic Regressors: A Comparison of Probe Regressors from Peripheral NIRS Recordings and BOLD-fMRI**  
ERDOĞAN S. B., TONG Y., HOCKE L. M., LINDSEY K. P., DEB FREDERICK B.  
Joint Annual Meeting ISMRM-ESMRMB 2018, Paris, France, 16 June - 21 August 2018
- XV. **Bruksizme eşlik eden miyofasyal ağrılı bireylerde splint tedavisinin massater kasındaki hemodinamik değişiklikler üzerine etkilerinin İYKAS ile incelenmesi**  
İspirgil E., ERDOĞAN S. B., ŞAKAR O., AKIN A.  
Biyomut 2017, Turkey, 24 - 26 November 2017
- XVI. **Mapping hemodynamic delay times from Human Connectome Project Resting State Data**  
DEB FREDERICK B., LINDSEY K. P., ERDOĞAN S. B., HOCKE L. M., TONG Y.  
2017 Annual Meeting of the Organization for Human Brain Mapping, Vancouver, Canada, 25 - 29 June 2017
- XVII. **Improving Sensitivity of task-fMRI by use of Reciprocal Information from Peripheral Near Infrared Spectroscopy (NIRS) measurements**  
Erdogan S. B., Tong Y., Hocke L. M., Lindsey K. P., Frederick B. d. B.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XVIII. **Denoising task related fMRI data with time delay processing of concurrently recorded peripheral NIRS**  
ERDOĞAN S. B., TONG Y., HOCKE L. M., LINDSEY K. P., DEB FREDERICK B.  
fNIRS 2016 Conference, Paris, France, 13 - 16 October 2016
- XIX. **Studying the propagation of systemic hemodynamic oscillations in human body using peripheral near infrared spectroscopy measurements**  
LI Y., DEB FREDERICK B., ERDOĞAN S. B., LINDSEY K. P., CAYETANO K. R., HOCKE L. M., TONG Y.  
fNIRS 2016 Conference, Paris, France, 13 - 16 October 2016
- XX. **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
- XXI. **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
- XXII. **An fMRI based method for characterizing superficial layer contribution to fNIRS signals**  
Erdogan S. B., Nevsehirli T. D., Ergen Y. K., Akin A.  
Biomedical Optics, BIOMED 2012, Miami, FL, United States Of America, 28 April - 02 May 2012
- XXIII. **INVESTIGATION OF THE NEURONAL EFFICACY AND EEG SOURCE POWER UNDER STEADY-STATE VISUAL STIMULATION**  
DURU A. D., ERDOĞAN S. B., Kasikci I., BAYRAM A., Ademoglu A., DEMİRALP 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

- XXIV. **Determination and anatomical mapping of thalamic stroke regions to anatomical atlas Talamik inme bölgelerinin belirlenmesi ve anatomik atlasta eşleştirilmesi**  
Özel P., Uslu F. I., Duru A. D., Erdoğan S. B., Gökyiğit A., Ademoğlu A.  
2010 15th National Biomedical Engineering Meeting, BIYOMUT2010, Antalya, Turkey, 21 - 24 April 2010
- XXV. **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
- XXVI. **The effect of methylphenidate on brain hemodynamics of attentiondeficit/hyperactivity disorder measured by functional near infrared spectroscopy**  
Topaloğlu N., Kara E., Karahan E., ERDOĞAN S. B., Serap S., Öner Ö., ÖNCÜ ÇETİNKAYA B., Münir K., Çiftçi K., AKIN A.  
Biomedical Optics, BIOMED 2008, St. Petersburg, FL, United States Of America, 16 - 19 March 2008
- XXVII. **Evaluation of co-activation of antagonistic muscles using near infrared spectroscopy**  
Erdoğan S. B., Yucesoy C. A., Huijing P. A., Akin A.  
Biomedical Optics, BIOMED 2008, St. Petersburg, FL, United States Of America, 16 - 19 March 2008
- XXVIII. **Activation of lateral prefrontal cortex during a complex cognitive task**  
Kirimli C. E., Sumer S., Erdogan S. B., Topaloglu N., Akin A.  
Biomedical Optics, BIOMED 2008, St. Petersburg, FL, United States Of America, 16 - 19 March 2008

## Other Publications

- I. **Beyin Bilgisayar Arayüzlerinde Yeni Bir Teknoloji: İşlevsel Yakın Kızılaltı Spektroskopi (STM BLOG)**  
Erdoğan S. B.  
Technical Report, pp.1-7, 2019
- II. **Beyin Bilgisayar Arayüzlerinde Yeni Bir Teknoloji: İşlevsel Yakın Kızılaltı Spektroskopi (YÖK DERGİ)**  
Erdoğan S. B.  
Technical Report, pp.22-25, 2019

## Activities in Scientific Journals

Frontiers in Robotics and AI, Assistant Editor/Section Editor, 2020 - Continues

## Memberships / Tasks in Scientific Organizations

Society for fNIRS, Member, 2016 - Continues, United States Of America

## Scientific Refereeing

Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, National Scientific Refreed Journal, December 2022  
TÜBİTAK International Bilateral Joint Cooperation Program Project, 2535 TÜBİTAK-IRAN MSRT, Mugla Sıtkı Kocman University, Turkey, October 2022  
TÜBİTAK International Bilateral Joint Cooperation Program Project, 2535 TÜBİTAK-IRAN MSRT, Istinye University, Turkey, October 2022  
TÜBİTAK International Bilateral Joint Cooperation Program Project, Korean National Research Foundation, NRF Bilateral Joint Cooperation Program, Koc University, Turkey, October 2022  
FRONTIERS IN BEHAVIORAL NEUROSCIENCE, SCI Journal, September 2022  
FRONTIERS IN NEUROENGINEERING, SCI Journal, August 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, ERTUNÇ ÖZCAN MEDİKAL CİH. PAZARLAMA VE TEKNİK SERVİS HİZ. TİCARET LTD, Turkey, July 2022  
KOSGEB, MARS LABS BİLİŞİM TEKNOLOJİLERİ TİCARET LİMİTED ŞİRKETİ, Turkey, June 2022  
FRONTIERS IN HUMAN NEUROSCIENCE, SCI Journal, April 2022  
KOSGEB, MEDIGROUP, Turkey, April 2022  
NEUROPHOTONICS, SCI Journal, March 2022  
H2020 Project, FET, H2020 Future & Emerging Technologies Project, Koc University, Turkey, December 2021  
NEUROPHOTONICS, SCI Journal, September 2021  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Acibadem Mehmet Ali Aydınlar University, Turkey, May 2021  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Acibadem Mehmet Ali Aydınlar University, Turkey, May 2021  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Acibadem Mehmet Ali Aydınlar University, Turkey, May 2021  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, ERTUNÇ ÖZCAN MEDİKAL CİH. PAZARLAMA VE TEKNİK SERVİS HİZ. TİCARET LTD, Turkey, April 2021  
FRONTIERS IN HUMAN NEUROSCIENCE, SCI Journal, March 2021  
TUBİTAK International Bilateral Joint Cooperation Program Project, Ministry of Science and Technology of Pakistan, MoST Bilateral Cooperation Program, Istanbul University, Turkey, March 2021

## Tasks In Event Organizations

Akin A., Tahir Turanlı E., Onat F., Erdoğan S. B., Sütçübaşı B., Workshop on AI in Neurosciences, Workshop Organization, İstanbul, Turkey, Ocak 2023  
Akin A., Bekçi B., Sütçübaşı B., Erdoğan S. B., Yukselen G., Kognitif Nörobilim Stajı, Science / Art Camp or Summer School Organization, Turkey, Aralık 2022  
Süyen G., Yavuz M., Sütçübaşı B., Ergen M., Erdoğan S. B., KAN B., 20th National Neuroscience Congress, Scientific Congress, İstanbul, Turkey, Ekim 2022  
Akin A., Bekçi B., Sütçübaşı B., Erdoğan S. B., Yukselen G., Mühendislik Yaklaşımı ile Nörobilim Stajı, Science / Art Camp or Summer School Organization, Turkey, Nisan 2022  
Sütçübaşı B., Erdoğan S. B., Akin A., Dumlu S. N., ACU SİNİRİLİM ÇALIŞTAYI, Workshop Organization, İstanbul, Turkey, Şubat 2022  
Yukselen G., Akin A., Bekçi B., Erdoğan S. B., Mühendislik Yaklaşımı ile Nörobilim Stajı 2021-2, Science / Art Camp or Summer School Organization, İstanbul, Turkey, Ocak 2022  
Süyen G., Alanay Y., Öz Arslan D., Akyerli Boylu C., Ergen M., Keskinöz E. N., Yavuz M., Özdemir Ö., Erdoğan S. B., Seçkin M., ACU Disiplinlerarası Sinirbilim Araştırmaları Çalıştayı, Workshop Organization, İstanbul, Turkey, Haziran 2021  
Erdoğan S. B., Noise as Signal: Finding Nemo, Scientific Congress, Massachusetts, United States Of America, Haziran 2021  
Erdoğan S. B., Sağlık Girişimlerinin Küresel Pazara Erişimi Projesi- Uluslararası Sağlık Sektörüne Yönelik Zirve Organizasyonu, Scientific Congress, İstanbul, Turkey, Eylül 2020  
Erdoğan S. B., 2020 OSA Biophotonics Congress: Biomedical Optics (BioMed 2020), Scientific Congress, Florida, United States Of America, Nisan 2020

## Scientific Research / Working Group Memberships

Adalab, Acibadem Mehmet Ali Aydınlar University, Türkiye, <https://www.adalaboratory.org>, 2020 - Continues  
Mind And Brain Lab, Acibadem Mehmet Ali Aydınlar University, Türkiye, <https://www.adalaboratory.org>, 2016 - Continues  
Optomagnetic Research Group, Harvard University, Amerika Birleşik Devletleri, <https://www.nirs-fmri.net>, 2014 - Continues



## Metrics

Publication: 48

Citation (WoS): 137

Citation (Scopus): 166

H-Index (WoS): 5

H-Index (Scopus): 5

## Congress and Symposium Activities

Ulusal Psikoloji Kongresi, Panelists, İstanbul, Turkey, 2022

Fonksiyonel Yakın Kızılaltı Spektroskopisi (fNIRS) Tekniğinin Bilişsel ve Klinik Sinirbilim Araştırmalarında Potansiyeli: Ne Yapabiliyoruz Ne Yapamıyoruz?, Panelists, İstanbul, Turkey, 2022

Global Marketing Summit, Invited Speaker, İstanbul, Turkey, 2022

The Future Healthcare, Invited Speaker, İstanbul, Turkey, 2022

EEG-fNIRS Workshop In Neuroscience Research, Invited Speaker, İstanbul, Turkey, 2022

Noise As Signal: Finding Nemo, Invited Speaker, Massachusetts, United States Of America, 2021

International Conference on Artificial Intelligence and Mechatronics (AIMS 2021), Invited Speaker, Jakarta, Indonesia, 2021

2nd International Symposium on Applied Sciences and Engineering (ISASE2021), Invited Speaker, Kuala-Lumpur, Malaysia, 2021

## Invited Talks

Can Human Intelligence Be Transferred to a Chip? Assumptions, Potential Trajectories and Myths, Conference, GLOBAL MARKETING SUMMIT, Turkey, October 2022

İnsan Zekası Bir Çipe Aktarılabilir mi? Potansiyeller ve Sınırlılıklar, Conference, Doğuş Üniversitesi, Turkey, October 2022

Can Artificial Intelligence Match and Surpass Human Intelligence?, Conference, The Future Healthcare, Turkey, October 2022

How can fNIRS and EEG techniques be used effectively in collecting and interpreting temporal and spatial data to reveal neuronal processes related to mental abilities?, Workshop, MEDIPOL UNIVERSITY, Turkey, July 2022

What can fNIRS tell us about the Neurobiology of Cognition?, Conference, ANKARA UNIVERSITESI, Turkey, May 2022

İnsan Beynini Işıklı Görüntülemek, Seminar, OpenCampusTR, Turkey, May 2022

A novel Profession in the New World: (Bio)Medical Engineering, Seminar, Koc High School, Turkey, April 2022

Systemic LFOs and fMRI denoising, Seminar, Harvard Medical School, United States Of America, June 2021

A new profession in the new World: Biomedical Engineering, Seminar, Koc High School, Turkey, April 2021

Neuroimaging in everyday life with a relatively novel brain imaging SYSTEM:Functional near infrared spectroscopy (FNIRS), Conference, International Conference on Artificial Intelligence and Mechatronics (AIMS 2021), Turkey, April 2021

Neuroimaging in everyday life with a novel brain imaging modality, Conference, 2nd International Symposium on Applied Sciences and Engineering (ISASE2021), Malaysia, April 2021

(Bio)Medical Engineering as a Novel Profession , Seminar, SEV American High School, Turkey, March 2021

What can fNIRS tell us about the neurobiology of cognition?, Seminar, Yeditepe University, Turkey, March 2021

## Awards

Erdoğan 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 BİDEB 2219 Program of Scientific and Technological Research Council of Turkey, September 2014 – September 2015), Bıdeb, June 2014