Assoc. Prof. SİNEM BURCU ERDOĞAN

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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, Instıtute Of Bıomedıcal Engıneerıng, Biyomedikal Mühendisliği (Yl) (Tezli), Turkey 2007 - 2014
Postgraduate, Bogazici University, Instıtute Of Bıomedıcal Engıneerıng, 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 (Yl) (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, Biomedical Image Processing, Biosignal Processing, Numerical Neuroscience, Neurophysiology, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2023 - Continues
Assistant Professor, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2016 - 2023

Research Assistant, Harvard University, 2014 - 2016
Research Assistant, Bogazici University, Instıtute Of Bıomedıcal Engıneerıng, Department Of Bıomedıcal Electronıcs, 2007 - 2014

Academic and Administrative Experience

Ölçme Değerlendirme Kurulu Üyesi, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2022 - Continues
Unit Accreditation Board Member, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2022 - Continues
Internship Committee Member, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues
Staj Koordinatörü, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues
Fakülte Kurulu Üyesi, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues
Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Üyesi, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues
Bölüm Stratejik Plan Komisyonu Üyesi, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2020 - Continues
Ethics Committee Member, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2021 - 2023

Courses

Human Anatomy and Physiology, Undergraduate, 2023 - 2024
Tez Dersi, Postgraduate, 2022 - 2023, 2021 - 2022
Professional Enrichment, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Medical İmaging, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
ileri Radyoloji Teknolojileri, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
HUMAN ANATOMY AND PHYSIOLOGY, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Functional Neuroimaging, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018
BME 619, Doctorate, 2023 - 2024
Functional Neuroimaging, Undergraduate, 2023 - 2024, 2022 - 2023
Advanced Human Physiology, Doctorate, 2022 - 2023, 2021 - 2022
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

Dumlu S. N., Erdoğan S. B., Automatic Semantic Segmentation of Organs at Risk and Target Tumor Volume in Radiotherapy Planning CT Images of Nasopharyngeal Cancer, Postgraduate, M.Yüce(Student), Continues
Erdoğan S. B., Gür Özmen S., (Investigation of The Effect of Transcutaneous Bilateral Auricular Vagal Nerve Stimulation on Episodic Future Thinking : A taVNS-EEG Study), Doctorate, A.Himmetoglu(Student), Continues
Erdoğan S. B., A Machine Learning Based Blood Pressure Detection System from Speech Recordings, Postgraduate,

B.Ercik(Student), Continues

Erdoğan S. B., Design of a hybrid EEG-fNIRS system for cognitive workload assessment, Doctorate, A.Eser(Student), Continues

Erdoğan S. B., Quantification of the Impact of Direct Brain Current Stimulation on Brain Hemodynamics in Parkinson's disease Patients with fNIRS, Postgraduate, Ö.ÖZTEL(Student), Continues

Erdoğan S. B., --, Postgraduate, A.Elibol(Student), Continues

Erdoğan S. B., Design of a hybrid EEG-fNIRS BCI for decoding mental states in everyday life, Doctorate, G.Yükselen(Student), Continues

Erdoğan S. B., Performance comparison of fnirs signal preprocessing approaches with and without short channel regression, Postgraduate, A.GÜVEN(Student), 2023

Erdoğan S. B., Design of an fNIRS based BCI system for identification of Impulsivity in Adolescents, Postgraduate, G.Yükselen(Student), 2022

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

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Bahcesehir University, November, 2023

Academic Staff Examination, Academic Staff Examination, University of Engineering and Technology, October, 2023

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

Doctorate, Doctorate, Yeditepe Üniversitesi, July, 2022

Doctorate, Doctorate, Yeditepe Üniversitesi, April, 2022

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

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

Doctorate, Doctorate, Istanbul Medipol University, July, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Small world properties of schizophrenia and OCD patients derived from fNIRS based functional brain network connectivity metrics**
AKIN A., Yorgancigil E., Öztürk O. C., SÜTÇÜBAŞI B., KIRIMLI C. E., Elgün Kırımlı E., DUMLU S. N., YUKSELEN G., ERDOĞAN S. B.
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)

II. **Sex based differences in functional connectivity during a working memory task: an fNIRS study**
Shirzadi S., Dadgostar M., Einalou Z., Erdoğan S. B., Akın A.
FRONTIERS IN PSYCHOLOGY, 2024 (SSCI)

III. **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)

IV. **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)

V. **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)

VI. **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)

VII. **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)

VIII. **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)

IX. **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)

X. **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 & SLEEP PRACTICE, vol.38, no.2, pp.99-108, 2020 (SCI-Expanded)

XI. **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)

XII. **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)

XIII. **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)

XIV. **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. **Explainable fNIRS Based Pain Decoding Under Pharmacological Conditions via Deep Transfer Learning Approach**
Eken A., Erdoğan S. B., Yukselen G., Yüce M.
medRxiv, vol.1, no.1, pp.1-30, 2023 (Non Peer-Reviewed Journal)

II. **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)

III. **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. **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

II. **Assessment of Neurovascular Reactivity during Physiological Tasks with fNIRS**
Yorgancıgil E., Akın A., Erdoğan S. B., Yukselen G.
20. Ulusal Sinirbilim Kongresi, İstanbul, Turkey, 19 - 23 October 2022, pp.150

III. **An fNIRS-based BCI System for Identification of Impulsivity in Adolescents**
Yukselen G., Erdoğan S. B., Derman O., Akın A.
3rd International Webinar on Cognitive and Behavioral Neurosciences, 15 - 16 June 2022, pp.37

IV. **Validity of fNIRS method in Assessing Cerebrovascular Reactivity in Prefrontal and Occipital Cortex of the Brain**
Yorgancıgil E., Erdoğan S. B., Yukselen G., Akın A.
3rd International Webinar on Cognitive and Behavioral Neurosciences, 15 - 16 June 2022, pp.35

V. **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

VI. **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

VII. **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

VIII. **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

IX. **Machine learning based prediction of motor imagery and motor execution tasks from functional near infrared spectroscopy signals**
Aslan O., Kurtoğlu 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

X. **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

XI. **Effects of tailored exercise program in knee osteoa-rthritis 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

XII. **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

XIII. **Subband Analysis of fNIRS Signals**
ŞAUL C. J., ERDOĞAN S. B., AKIN A.
The fNIRS2018 conference, Tokyo, Japan, 5 - 08 October 2018

XIV. **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

XV. **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

XVI. **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

XVII. **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

XVIII. **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

XIX. **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

XX. **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

XXI. **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

XXII. **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

XXIII. **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

XXIV. **INVESTIGATON 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

XXV. **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., Erdogan S. B., Gökyiğit A., Ademoğlu A.
2010 15th National Biomedical Engineering Meeting, BIYOMUT2010, Antalya, Turkey, 21 - 24 April 2010

XXVI. **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

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. **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

XXIX. **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

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Acibadem Mehmet Ali Aydinlar University, Turkey, November 2023
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Acibadem Mehmet Ali Aydinlar University, Turkey, August 2023
KOSGEB, MARSLABS, Turkey, May 2023
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Acibadem Mehmet Ali Aydinlar University, Turkey, May 2023
NEUROPHOTONICS, Journal Indexed in SCI-E, April 2023
HUMAN BRAIN MAPPING, Journal Indexed in SCI-E, January 2023
KOSGEB, MARSLABS, Turkey, January 2023
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, National Scientific Refreed Journal, December 2022
TÜBİTAK International Bilateral Joint Cooperation Program Project, 2535 TÜBİTAK-IRAN MSRT, Mugla Sitki 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

NEUROPHOTONİCS, SCI Journal, September 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Acibadem Mehmet Ali Aydinlar University, Turkey, May 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Acibadem Mehmet Ali Aydinlar University, Turkey, May 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Acibadem Mehmet Ali Aydinlar 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

TÜBİTAK 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

Erdoğan S. B., 5th International Neuroergonomics Conference, Scientific Congress, Bordeaux, France, Temmuz 2024

Akin A., Tahir Turanli E., Onat F., Erdoğan S. B., Sütçübaşi B., Workshop on AI in Neurosciences, Workshop Organization, İstanbul, Turkey, Ocak 2023

Akın 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

Akın 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

Sütçübaşi B., Erdoğan S. B., Akin A., Dumlu S. N., ACU SİNİRBİLİM ÇALIŞTAYI, Workshop Organization, İstanbul, Turkey, Şubat 2022

Yukselen G., Akın 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 Aydinlar University, Turkey, https://www.adalaboratory.org, 2020 - Continues

Mind And Brain Lab, Acibadem Mehmet Ali Aydinlar University, Turkey, https://www.adalaboratory.org, 2016 - Continues

Optomagnetic Research Group, Harvard University, United States Of America, https://www.nirs-fmri.net, 2014 - Continues

Metrics

Publication: 56
Citation (WoS): 167
Citation (Scopus): 215
H-Index (WoS): 5
H-Index (Scopus): 5

Congress and Symposium Activities

Special Topics in Biomedical Sciences-Bogazici University, Invited Speaker, İstanbul, Turkey, 2023

1. Ulusal Norogoruntuleme Kongresi (NGK2023), Panelists, Ankara, Turkey, 2023

Bilimsel Sinirbilim Günleri-Medipol Universitesi, Invited Speaker, İstanbul, Turkey, 2023

Nörobilimde Yapay Zeka Uygulamaları Çalıştayi, Panelists, İstanbul, Turkey, 2023

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

The Potential of fNIRS based BCI System Designs as Clinical Decision Support Systems, Seminar, Bogazici University, Turkey, December 2023

Yeni Dunya da Yeni Bir Mühendislik: Biyomedikal Mühendisliği, Seminar, Ayazaga Lisesi, Turkey, October 2023

Türkiye'de Nörobilim Araştırmalarında fNIRS'ın Yeri, Conference, Gazi University, Turkey, September 2023

FNIRS Verilerine Dayalı Nöropsikiyatrik Hastalıkların Sınıflandırılması, Conference, Istanbul Medipol University, Turkey, May 2023

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

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

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

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

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

(Bio)Medical Engineering as a Novel Profession , Seminar, SEV American High School, 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 BIDEB 2219 Program of Scientific and Technological Research Council of Turkey, September 2014 – September 2015), Bıdeb, June 2014