

Prof. UĞUR BAYSAL

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 169878

Education Information

Doctorate, Hacettepe University, Elektrik-Elektronik, Turkey 1993 - 1999

Foreign Languages

English, C1 Advanced

Research Areas

Biomedical Engineering, Clinical Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, 2013 - Continues

Professor, Hacettepe University, Mühendislik Fakültesi, 2011 - Continues

Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - Continues

Hacettepe Üniversitesi, Hacettepe Ankara Sanayi Odası 1. Osb Meslek Yüksekokulu (Silinecek), 2002 - 2012

Courses

ELE 361 ELECTRICAL MACHINERY, Undergraduate, 2017 - 2018, 2016 - 2017

ELE 107 COMPUTERS AND PROGRAMMING, Undergraduate, 2017 - 2018, 2016 - 2017

ELE 452 MEDICAL IMAGING, Undergraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Incorporating support vector machine to the classification of respiratory sounds by Convolutional Neural Network**
Cinyol F., BAYSAL U., KÖKSAL D., Babaoğlu E., Ulaşlı S. S.
Biomedical Signal Processing and Control, vol.79, 2023 (SCI-Expanded)
- II. **The Effects of Pulsed Electromagnetic Field (PEMF) on Osteoblast-Like Cells Cultured on Titanium and Titanium-Zirconium Surfaces**
Atalay B., Aybar B., Erguven M., Emes Y., Bultan O., AKÇA K., Yalcin S., BAYSAL U., Issever H., Cehreli M. C., et al.
JOURNAL OF CRANIOFACIAL SURGERY, vol.24, no.6, pp.2127-2134, 2013 (SCI-Expanded)
- III. **Low-level laser therapy vs. pulsed electromagnetic field on neonatal rat calvarial osteoblast-like cells**
Emes Y., AKÇA K., Aybar B., Yalcin S., CAVUSOĞLU Y., BAYSAL U., Issever H., Atalay B., Vural P., Erguven M., et al.
LASERS IN MEDICAL SCIENCE, vol.28, no.3, pp.901-909, 2013 (SCI-Expanded)
- IV. **Determination of measurement noise, conductivity errors and electrode mislocalization effects to somatosensory dipole localization.**
Sengul G., BAYSAL U.
BIOMEDICAL RESEARCH-INDIA, vol.23, no.4, pp.581-588, 2012 (SCI-Expanded)
- V. **An extended Kalman filtering approach for the estimation of human head tissue conductivities by using EEG data: a simulation study**
Sengul G., BAYSAL U.
PHYSIOLOGICAL MEASUREMENT, vol.33, no.4, pp.571-586, 2012 (SCI-Expanded)
- VI. **The Effect of Statistically Constrained Minimum Mean Square Estimation Algorithm Which is Used For Human Head Tissue Conductivity Estimation to Source Localization**
ŞENGÜL G., BAYSAL U.
JOURNAL OF NEUROLOGICAL SCIENCES-TURKISH, vol.29, no.2, pp.266-279, 2012 (SCI-Expanded)
- VII. **Single Camera Photogrammetry System for EEG Electrode Identification and Localization**
BAYSAL U., SENGUL G.
ANNALS OF BIOMEDICAL ENGINEERING, vol.38, no.4, pp.1539-1547, 2010 (SCI-Expanded)
- VIII. **An experimental study on the effect of the anisotropic regions in a realistically shaped torso phantom**
Sengul G., Liehr M., Haueisen J., BAYSAL U.
ANNALS OF BIOMEDICAL ENGINEERING, vol.36, no.11, pp.1836-1843, 2008 (SCI-Expanded)
- IX. **Simulating the propagation of spreading cortical depression (SCD) wavefront on human brain surface**
Baysal U., HAUEISEN J., DURGUT K., DEMIRCI M.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.37, no.10, pp.1446-1454, 2007 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **H Ankişhan, U Baysal , Max-Min Space Approach for Acoustic Signal Analysis**
ANKIŞHAN H., BAYSAL U.
21st National Biomedical Engineering Meeting (BIYOMUT), 2017, 15 - 20 November 2017
- II. **A New Approach for Estimation of Heart Beat Rates from Speech Recordings, 21st National Biomedical Engineering Meeting (BIYOMUT), 2017**
ANKIŞHAN H., BAYSAL U.
(BIYOMUT), 2017, Turkey, 15 - 20 November 2017
- III. **Classification of lung sounds with convolutional neural network**
CİNYOL F., MUTLU H. E., BAYSAL U.
21st National Biomedical Engineering Meeting (BIYOMUT), 2017, 15 - 20 November 2017
- IV. **A proposed micro inverter performance test set-up under real-time operation, pp314-316, 2017.**
GÖK G., BAYSAL U.

Electrical and Electronics Engineering (ELECO), Turkey, 15 - 20 October 2017

V. **A Proposed Micro inverter Performance Test Set-up under Real-Time Operation**

Gok G., BAYSAL U.

10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.314-316

VI. **Max-Min Space Approach for Acoustic Signal Analysis**

Ankishan H., BAYSAL U.

21st National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Turkey, 24 November - 26 December 2017

VII. **A New Approach for Estimation of Heart Beat Rates from Speech Recordings**

Ankishan H., BAYSAL U.

21st National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Turkey, 24 November - 26 December 2017

VIII. **Effects of anisotropy in a physical torso phantom on source reconstructions from a current dipole**

Liehr M., Sengul G., BAYSAL U., Haueisen J.

Joint Meeting of the 6th Symposium on Noninvasive Functional Source Imaging of the Brain and

Heart/International Conference on Functional Biomedical Imaging, Hangzhou, China, 12 - 14 October 2007,

pp.100-102

IX. **MESLEKİ TEKNİK EĞİTİMDE RESİMHANELERİN ERGONOMİSİ**

UZEL M., BAŞTÜRK N., BAYSAL U.

3. ULUSAL MESLEK YÜKSEKOKULLARI SEMPOZYUMU, Burdur, Turkey, 28 - 30 September 2005, pp.567-572

Supported Projects

BAYSAL U., SARINÇ ULAŞLI S., GELİR E., BABAOĞLU E., CİNYOL F., KÖKSAL D., Project Supported by Higher Education Institutions, Normal Solunum Sesleri Ral ve Ronküsü Ayırt Edebilen Akıllı Karar Destek Sisteminin Geliştirilmesi, 2018 - 2021

BAYSAL U., Yıldırım İ. K., Project Supported by Higher Education Institutions, PERİYODİK GERİLİM VE AKIM ÖLÇÜM YAPAN SİSTEM İÇİN EN YÜKSEK GÜÇ İZLEMELİ (MPPT) FOTOVOLTAİK GÜÇ ÜNİTESİ GELİŞTİRİLMESİ, 2018 - 2019

BAYSAL U., GELİR E., BABAOĞLU E., Project Supported by Higher Education Institutions, Patolojik solunum seslerinin kayıt edilmesi için elektronik ve bilişimsel altyapı hazırlığı, 2018 - 2019

BAYSAL U., Ataman Sadık D., Project Supported by Higher Education Institutions, TROMBİN DETEKSİYONU İÇİN ALTIN YÜZEYLER ÜZERİNDE 33 DITHIODIPROPIONIC ACID DIHYDROXSUCCINIMIDE ESTER DSP 6MERCAPTO1HEXANOL MCH KARIŞIK TABAKALAR OLUŞTURULARAK YÜZEY PLAZMON REZONANS YPR SENSÖRÜNÜN GELİŞTİRİLMESİ, 2016 - 2017

Metrics

Publication: 22

Citation (WoS): 42

Citation (Scopus): 51

H-Index (WoS): 4

H-Index (Scopus): 5

Non Academic Experience

TÜBİTAK

KALKINMA BAKANLIĞI

HACETTEPE ÜNİVERSİTESİ