

Prof. UĞUR BAYSAL

Personal Information

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Education Information

Doctorate, Hacettepe Üniversitesi, 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, 2016 - 2017, 2017 - 2018

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

ELE 452 MEDICAL IMAGING, Undergraduate, 2016 - 2017

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

- I. **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 (Journal Indexed in SCI)
- II. **Low-level laser therapy vs. pulsed electromagnetic field on neonatal rat calvarial osteoblast-like**

cells

Emes Y., AKÇA K., Aybar B., Yalcin S., CAVUSOGLU 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 (Journal Indexed in SCI)

- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)

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., 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

Citations

Total Citations (WOS):42

h-index (WOS):4