

Dr. Öğr. Üyesi ZAFER İŞCAN

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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ORCID: 0000-0001-9832-6591

Publons / Web Of Science ResearcherID: G-8771-2015

ScopusID: 15757480800

Yoksis Araştırmacı ID: 149111

Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Türkiye 2006 - 2012

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyomedikal Mühendisliği, Türkiye 2002 - 2005

Lisans, İstanbul Teknik Üniversitesi, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, Türkiye 1998 - 2002

Yabancı Diller

İngilizce, C2 Ustalık

İtalyanca, A1 Başlangıç

Rusça, B1 Orta

Fransızca, B1 Orta

Yaptığı Tezler

Doktora, Development of classification methods for electroencephalogram based brain computer interfaces, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2012

Yüksek Lisans, Yapay sinir ağları kullanarak ultrasonik görüntülerde dokuların bölütlenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2005

Araştırma Alanları

Biyomedikal Görüntü İşleme, Biyosinyal İşleme

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, İstanbul Medipol Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2023 - Devam Ediyor

Dr. Öğr. Üyesi, Bahçeşehir Üniversitesi, Mühendislik ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği, 2018 -

2023

Arařtırmacı, INSERM, Neurospin, Cognitive Neuroimaging Unit, 2016 - 2018

Arařtırmacı, Higher School of Economics, Psychology, Center for Cognition and Decision Making, 2014 - 2016

Arařtırmacı, State University of New York at Stony Brook, Stony Brook Hospital, Psychiatry, 2013 - 2015

Arařtırma Grevlisi, İstanbul Teknik Üniversitesi, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliđi, 2005 - 2012

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Oscillatory Source Tensor Discriminant Analysis (OSTDA): A regularized tensor pipeline for SSVEP-based BCI systems**
Jorajuría T., Jamshidi Idaji M., İřCAN Z., Gmez M., Nikulin V. V., Vidaurre C.
Neurocomputing, cilt.492, ss.664-675, 2022 (SCI-Expanded)
- II. **Pre-stimulus theta power is correlated with variation of motor evoked potential latency: a single-pulse TMS study**
İřCAN Z., Schurger A., Vernet M., Sitt J. D., Valero-Cabr A.
Experimental Brain Research, cilt.236, sa.11, ss.3003-3014, 2018 (SCI-Expanded)
- III. **Steady state visual evoked potential (SSVEP) based brain-computer interface (BCI) performance under different perturbations**
İřCAN Z., Nikulin V. V.
PLoS ONE, cilt.13, sa.1, 2018 (SCI-Expanded)
- IV. **A positron emission tomography study of the serotonergic system in relation to anxiety in depression**
İřCAN Z., Rakesh G., Rossano S., Yang J., Zhang M., Miller J., Sullivan G. M., Sharma P., McClure M., Oquendo M. A., et al.
European Neuropsychopharmacology, cilt.27, sa.10, ss.1011-1021, 2017 (SCI-Expanded)
- V. **Pre-stimulus alpha oscillations and inter-subject variability of motor evoked potentials in single- and paired-pulse TMS paradigms**
İřCAN Z., Nazarova M., Fedele T., Blagovechtchenski E., Nikulin V.
Frontiers in Human Neuroscience, cilt.10, sa.OCT2016, 2016 (SCI-Expanded)
- VI. **Long-Range Temporal Correlations in the amplitude of alpha oscillations predict and reflect strength of intracortical facilitation: Combined TMS and EEG study**
Fedele T., Blagovechtchenski E., Nazarova M., İřCAN Z., Moiseeva V., Nikulin V. V.
Neuroscience, cilt.331, ss.109-119, 2016 (SCI-Expanded)
- VII. **Test-retest reliability of freesurfer measurements within and between sites: Effects of visual approval process**
İřCAN Z., Jin T. B., Kendrick A., Szeglin B., Lu H., Trivedi M., Fava M., Mcgrath P. J., Weissman M., Kurian B. T., et al.
Human Brain Mapping, cilt.36, sa.9, ss.3472-3485, 2015 (SCI-Expanded)
- VIII. **A novel steady-state visually evoked potential-based brain-computer interface design: Character Plotter**
İřCAN Z., lmez Z.
Biomedical Signal Processing and Control, cilt.10, sa.1, ss.145-152, 2014 (SCI-Expanded)
- IX. **Classification of electroencephalogram signals with combined time and frequency features**
İřCAN Z., lmez Z., DEMİRALP T.
Expert Systems with Applications, cilt.38, sa.8, ss.10499-10505, 2011 (SCI-Expanded)
- X. **Retrospective correction of near field effect of X-ray source in radiographic images by using genetic algorithms**
Korrek M., Gvenilir F. Y., İřCAN Z., lmez Z., lmez T.
Expert Systems with Applications, cilt.37, sa.3, ss.1946-1954, 2010 (SCI-Expanded)
- XI. **Tumor detection by using Zernike moments on segmented magnetic resonance brain images**

İŞCAN Z., Ölmez Z., Ölmez T.

Expert Systems with Applications, cilt.37, sa.3, ss.2540-2549, 2010 (SCI-Expanded)

XII. Medical image segmentation with transform and moment based features and incremental supervised neural network

İŞCAN Z., Güvenilir F. Y., Ölmez Z., Korürek M., Ölmez T.

Digital Signal Processing: A Review Journal, cilt.19, sa.5, ss.890-901, 2009 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. Depth estimation for surface-breaking cracks in steel-fiber reinforced concrete using ultrasonic surface waves

Kirlangic A. S., İŞCAN Z.

Structural Monitoring and Maintenance, cilt.9, sa.4, ss.373-388, 2022 (Scopus)

II. Classification of steady state visual evoked potentials by Multi-Class T-Weight Method

İŞCAN Z., Ölmez Z.

Pattern Recognition and Image Analysis, cilt.25, sa.2, ss.321-326, 2015 (Scopus)

III. Detection of P300 wave from EEG data for brain-computer interface applications

İŞCAN Z.

Pattern Recognition and Image Analysis, cilt.21, sa.3, ss.481-485, 2011 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. Classification using angle and radius of feature vector

İŞCAN Z.

2015 International Conference on Image Processing, Computer Vision, and Pattern Recognition, IPCV 2015, at WORLDCOMP 2015, Nevada, Amerika Birleşik Devletleri, 27 - 30 Temmuz 2015, ss.258-264

II. Improved T-weight method in classification of slow cortical potentials

İŞCAN Z., Ölmez Z.

4th International Symposium on Applied Sciences in Biomedical and Communication Technologies, ISABEL'11, Barcelona, İspanya, 26 - 29 Ekim 2011

III. Classification of EEG in a steady state visual evoked potential based brain computer interface experiment

İŞCAN Z., Özkaya Ö., Ölmez Z.

10th International Conference on Adaptive and Natural Computing Algorithms, ICANNGA 2011, Ljubljana, Slovenya, 14 - 16 Nisan 2011, cilt.6594 LNCS, ss.81-88

IV. Survey evaluation by character recognition Karakter tanıma ile anket değerlendirme

İŞCAN Z.

18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Türkiye, 22 - 24 Nisan 2010, ss.491-494

V. MLSP 2010 EEG classification competition and the used method MLSP 2010 EEG siniflama yarışması ve kullanılan yöntem

İŞCAN Z.

2010 7th National Conference on Electrical, Electronics and Computer Engineering, ELECO 2010, Bursa, Türkiye, 2 - 05 Aralık 2010, ss.526-530

VI. MLSP competition, 2010: Description of second place method

İŞCAN Z.

2010 IEEE 20th International Workshop on Machine Learning for Signal Processing, MLSP 2010, Kittila, Finlandiya, 29 Ağustos - 01 Eylül 2010, ss.114-115

VII. Discrimination between different art types: marbled paper, watercolor and tile images

İŞCAN Z.

IEEE EUROCON 2009, EUROCON 2009, St. Petersburg, Rusya, 18 - 23 Mayıs 2009, ss.296-301

VIII. **Segmentation of medical images by using wavelet transform and incremental self-organizing map**

Ölmez Z., İŞCAN Z., Ölmez T.

5th Mexican International Conference on Artificial Intelligence, MICAI 2006: Advances in Artificial Intelligence, Apizaco, Meksika, 13 - 17 Kasım 2006, cilt.4293 LNAI, ss.800-809

Metrikler

Yayın: 23

Atf (Scopus): 588

H-İndeks (Scopus): 8

Ödüller

İşcan Z., Mind Reading Competition Second Prize, Ieee Machine Learning For Signal Processing Workshop, Ağustos 2010