

Asst. Prof. İSMAIL BURAK PARLAK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAB-4588-2020

ScopusID: 35100689100

Yoksis Researcher ID: 132155

Education Information

Doctorate, Bogazici University, Institute Of Biomedical Engineering, Turkey 2005 - 2013

Postgraduate, Bogazici University, Institute Of Biomedical Engineering, Turkey 2002 - 2005

Undergraduate, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 1997 - 2001

Research Areas

Computer Sciences, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Natural Language Processing, Text/Document Processing, Pattern Recognition and Image Processing, Neural Networks, Biomedical Engineering, Biomedical Image Processing, Telemedicine

Academic Titles / Tasks

Assistant Professor, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisligi, 2014 - Continues

Research Assistant, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisligi, 2001 - 2014

Courses

Principles of Programming Languages, Undergraduate, 2022 - 2023

Numerical Analysis, Undergraduate, 2022 - 2023

Natural Language Processing, Postgraduate, 2022 - 2023

Information Theory, Undergraduate, 2022 - 2023

Computer Graphics, Undergraduate, 2022 - 2023

Digital Image Processing, Postgraduate, 2022 - 2023

Multimodal Information Design and Retrieval, Postgraduate, 2022 - 2023

Advising Theses

Parlak İ. B., PROCESSING POST-DISASTER SOCIAL MEDIA DATA, Postgraduate, A.BURAK(Student), 2022
Parlak İ. B., DEEP LEARNING ARCHITECTURES FOR SMART URBAN SCENE ANALYSIS, Postgraduate,
T.DEMİRTAŞ(Student), 2022
Parlak İ. B., Designing an information framework for semantic search, Postgraduate, A.MITINCIK(Student), 2022
Parlak İ. B., Diacritic restoration of Turkish sentences, Postgraduate, H.EKİCİ(Student), 2021
Parlak İ. B., Deep learning analysis in dermoscopy images, Postgraduate, F.ERGIN(Student), 2020
PARLAK İ. B., TURKISH MEDICAL TEXT PARSING AND CLASSIFICATION, Postgraduate, A.BARDIZ(Student), 2019
Parlak İ. B., Measuring the sentiment effects using emoticon features for a general Turkish corpus, Postgraduate,
Ç.ÜNAL(Student), 2019
PARLAK İ. B., Multiclass analysis of automatic text classification techniques, Postgraduate, S.FRANKO(Student), 2018
PARLAK İ. B., DERİN ÖĞRENME TEKNİKLERİ İLE TÜRKÇE METİNLERDE DUYGU ANALİZİ, Postgraduate,
Ç.ÜNAL(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Noise Resilience in Dermoscopic Image Segmentation: Comparing Deep Learning Architectures for Enhanced Accuracy**
Ergin F., PARLAK İ. B., Adel M., Gül Ö. M., Karpouzis K.
Electronics (Switzerland), vol.13, no.17, 2024 (SCI-Expanded)
- II. **Finite-interval-valued Type-2 Gaussian fuzzy numbers applied to fuzzy TODIM in a healthcare problem**
Tolga A. Ç., Parlak İ. B., Castillo O.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.87, 2020 (SCI-Expanded)
- III. **Evaluation of Knowledge Management Tools by Using An Interval Type-2 Fuzzy TOPSIS Method**
Büyüközkan Feyzioğlu G., Parlak İ. B., Tolga A. Ç.
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.9, pp.812-826, 2016 (SCI-Expanded)
- IV. **BUBBLE STREAM REVEALS FUNCTIONALITY OF THE RIGHT-TO-LEFT SHUNT: DETECTION OF A POTENTIAL SOURCE FOR AIR EMBOLISM**
Parlak İ. B., EGİ S. M., ADEMOĞLU A., Germonpre P., Esen O. B., Marroni A., Balestra C.
ULTRASOUND IN MEDICINE AND BIOLOGY, vol.40, no.2, pp.330-340, 2014 (SCI-Expanded)
- V. **The musculus pterygoideus proprius: an in-vivo approach with magnetic resonance imaging**
Snoeck T., Probyn S., Balestra C., Parlak İ. B., Emonts P., Sesboue B., Clarys J. P.
JOURNAL OF ANATOMY, vol.217, no.6, pp.679-682, 2010 (SCI-Expanded)
- VI. **Compressibility data and virial coefficients for Helium - Nitrogen mixtures**
Korfali O., Parlak İ. B.
POLISH JOURNAL OF CHEMISTRY, vol.81, no.9, pp.1629-1639, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Detection of Misinformation Related to Pandemic Diseases using Machine Learning Techniques in Social Media Platforms**
Naeem J., Gül Ö. M., PARLAK İ. B., Karpouzis K., Salman Y., Kadry S.
EAI Endorsed Transactions on Pervasive Health and Technology, vol.10, 2024 (Scopus)
- II. **Automatic Bubble Detection in Cardiac Video Imaging**
PARLAK İ. B., ADEMOĞLU A., EGİ S. M., Balestra C., Germonpre P., Alessandro M.
POLIBITS, vol.44, pp.5-10, 2011 (Peer-Reviewed Journal)
- III. **INTELLIGENT BUBBLE RECOGNITION ON CARDIAC VIDEOS USING GABOR WAVELET**
PARLAK İ. B., EGİ S. M., ADEMOĞLU A., Balestra C., Germonpre P., Alessandro M.

International Journal of Digital Information and Wireless Communications, vol.1, no.1, pp.195-203, 2011 (Peer-Reviewed Journal)

IV. Challenges of translating food in multiparallel corpus: Beverages and mealtimes in Balzac's human comedy (La Comédie Humaine)

Sauner M. H., PARLAK İ. B.

Food and Foodways, vol.31, no.2, pp.108-134, 1 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. Detection of Misinformation Related to Pandemic Diseases Using Machine Learning**
Naeem J., Gül Ö. M., PARLAK İ. B., Karpouzis K., Kadry S. N., Salman Y. B.
7th EAI International Conference on Robotics and Networks, ROSENET 2023, İstanbul, Turkey, 15 - 16 December 2023, pp.147-159
- II. A New Method of Smart City Modeling Using Big Data Techniques**
Emek M. S., PARLAK İ. B.
Intelligent and Fuzzy Systems - Intelligence and Sustainable Future Proceedings of the INFUS 2023 Conference, İstanbul, Turkey, 22 - 24 August 2023, vol.759 LNNS, pp.772-779
- III. A New Method of Automatic Content Analysis in Disaster Management**
Can A. B., PARLAK İ. B., ACARMAN T.
10th International Symposium on Digital Forensics and Security (ISDFS), Maltepe, Turkey, 6 - 07 June 2022
- IV. Bilingual Speech Emotion Recognition Using Neural Networks: A Case Study for Turkish and English Languages**
Özsönmez D. B., ACARMAN T., PARLAK İ. B.
International Conference on Intelligent and Fuzzy Systems, INFUS 2021, İstanbul, Turkey, 24 - 26 August 2021, vol.308, pp.313-320
- V. A Multi-channel Deep Learning Architecture for Understanding the Urban Scene Semantics**
Demirtaş T., PARLAK İ. B.
International Conference on Intelligent and Fuzzy Systems, INFUS 2022, İzmir, Turkey, 19 - 21 July 2022, vol.505 LNNS, pp.101-108
- VI. Optimal classifier selection in Turkish speech emotion detection Türkçe sesli duygu tespitinde etkin sınıflandırıcı seçimi**
Ozsönmez D. B., ACARMAN T., PARLAK İ. B.
29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, İstanbul, Turkey, 9 - 11 June 2021
- VII. Measuring the effects of emojis on Turkish context in sentiment analysis**
Yurtoz C. U., PARLAK İ. B.
7th International Symposium on Digital Forensics and Security (ISDFS), Barcelona, Spain, 10 - 12 June 2019
- VIII. A Comparative Approach for Multiclass Text Analysis**
Franko S., PARLAK İ. B.
6th International Symposium on Digital Forensic and Security (ISDFS), Antalya, Turkey, 22 - 25 March 2018, pp.61-66
- IX. EVALUATION OF MEDICAL DEVICES USING FUZZY TOPSIS WITH TYPE-2 FUZZY NUMBERS**
PARLAK İ. B., Tolga A. C.
11th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), Joao Pessoa, Brazil, 17 - 20 August 2014, vol.9, pp.48-54
- X. EMPLOYING AN INTERVAL TYPE-2 FUZZY TOPSIS METHOD FOR KNOWLEDGE MANAGEMENT TOOL EVALUATION**
BÜYÜKÖZKAN FEYZİOĞLU G., PARLAK İ. B., TOLGA A. Ç.
11th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), Joao Pessoa, Brazil, 17 - 20 August 2014, vol.9, pp.55-61

- XI. **Tip 2 bulanık sayılar ile TOPSIS kullanarak medikal görüntüleme sistemlerinin seçimi**
PARLAK İ. B., TOLGA A. Ç.
Yöneylem Araştırması ve Endüstri Mühendisliği 34. Ulusal Kongresi (YA/EM 14), Turkey, 25 - 27 June 2014
- XII. **A Neuro-fuzzy Approach of Bubble Recognition in Cardiac Video Processing**
PARLAK İ. B., EĞİ S. M., ADEMOĞLU A., Balestra C., Germonpre P., Marroni A., Aydin S.
International Conference on Digital Information and Communication Technology and Its Applications, Dijon, France, 21 - 23 June 2011, vol.166, pp.277-279
- XIII. **Automatic bubble detection with neural networks on post decompression frames Post dekompresyon imgelerinde yapay sinir ağlarıyla otomatik kabarcık tesbiti**
PARLAK İ. B., EĞİ S. M., Ademoğlu A., Balestra C., Germonpre P., Marroni A., AYDIN S.
2010 15th National Biomedical Engineering Meeting, BIYOMUT2010, Antalya, Turkey, 21 - 24 April 2010
- XIV. **Bubble Detection on Left Atrium Related With Patent Foramen Ovale**
PARLAK İ. B., EĞİ S. M., ADEMOĞLU A., Germonpre P., Esen O. B., Aydin S., Tekin S., Balestra C., Marroni A.
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.443-444
- XV. **Neuroimaging of event related brain potentials (ERP) using fMRI and dipole source reconstruction**
Eryılmaz H. H., DURU A. D., Parlak B., Ademoglu A., DEMİRALP T.
29th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, Lyon, France, 22 - 26 August 2007, pp.3384-3385
- XVI. **Vibrations of a circular membrane subjected to a pulse**
Korfali O., PARLAK İ. B.
7th International Conference on Vibration Problems (ICOVP 2005), İstanbul, Turkey, 5 - 09 September 2005, vol.111, pp.291-292

Supported Projects

PARLAK İ. B., Project Supported by Higher Education Institutions, MULTİMEDYA VERİLERİ ÜZERİNDE YAPAY ÖĞRENME UYGULAMALARI, 2019 - 2021

PARLAK İ. B., Project Supported by Higher Education Institutions, ÇOK BİÇİMLİ BİLGİ ÇIKARIMINDA GÜNCEL YAKLAŞIMLAR GELİŞTİRİLMESİ, 2018 - 2020

Tolga A. Ç., Parlak İ. B., Project Supported by Higher Education Institutions, Tip-2 bulanık sayı içeren çok ölçütlü karar verme yöntemleriyle sağlık donanımı seçimi, 2014 - 2015

Metrics

Publication: 34

Citation (WoS): 75

Citation (Scopus): 151

H-Index (WoS): 3

H-Index (Scopus): 4