

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

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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

Postgraduate

Natural Language Processing, Postgraduate, 2022 - 2023

Digital Image Processing, Postgraduate, 2022 - 2023

Multimodal Information Design and Retrieval, Postgraduate, 2022 - 2023

Undergraduate

Principles of Programming Languages, Undergraduate, 2022 - 2023

Numerical Analysis, Undergraduate, 2022 - 2023

Information Theory, Undergraduate, 2022 - 2023

Computer Graphics, Undergraduate, 2022 - 2023

Supervised 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.MITINCİK(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**
Büyükoğuzkan 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 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 B.
POLISH JOURNAL OF CHEMISTRY, vol.81, no.9, pp.1629-1639, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **FDG-PET-based brain network analysis: a brief review of metabolic connectivity**
Tuan P. M., Adel M., Trung N. L., Horowitz T., PARLAK İ. B., Guedj E.
EJNMMI Reports, vol.9, no.1, 2025 (Scopus)
- II. **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)
- III. **Designing An Information Framework For Semantic Search**
Mitincik A., PARLAK İ. B.

Avrupa Bilim ve Teknoloji Dergisi, vol.32, 2021 (Peer-Reviewed Journal)

- IV. **Bir Procrustes Hikayesi: Türkçe Fransızca Gibi İşlenir mi?**
Levrat B., Amghar T., SENEMOĞLU S. O., TURHAN S. N., PARLAK İ. B.
JOURNAL OF TURKISH STUDIES, vol.8, no.10, pp.441-450, 2013 (Peer-Reviewed Journal)
- V. **Automatic Bubble Detection in Cardiac Video Imaging**
PARLAK İ. B., ADEMOĞLU A., EĞİ S. M., Balestra C., Germonpre P., Alessandro M.
POLIBITS, vol.44, pp.5-10, 2011 (Peer-Reviewed Journal)
- VI. **INTELLIGENT BUBBLE RECOGNITION ON CARDIAC VIDEOS USING GABOR WAVELET**
PARLAK İ. B., EĞİ 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)
- VII. **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)

Papers Published in Refereed Scientific Meetings

- 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. **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
- V. **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
- VI. **Optimal classifier selection in Turkish speech emotion detection Türkçe sesli duygu tespitinde etkin sınıflandırıcı seçimi**
Ozsonmez 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. **Analyse des pratiques et représentations autour des boissons dans 'La comédie humaine' à partir d'un corpus parallèle**
SAUNER LEROY M. H., PARLAK İ. B.
Discours sensoriels croisés II, Cacao, café, thé, vin, bière et spiritueux : référentiels, expériences et imaginaires, Angers, France, 07 June 2019
- VIII. **A New Method of Classification for Clinical Text Processing**
BARDIZ A., PARLAK İ. B.

The Sixth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2019), Cyprus (Kktc), 6 - 08 March 2019

- IX. **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
- X. **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
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **Neuroimaging of event related brain potentials (ERP) using fMRI and dipole source reconstruction**
Eryilmaz H. H., DURU A. D., Parlak B., Ademoğlu 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
- XVIII. **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: 40

Citation (WoS): 75

Citation (Scopus): 167

H-Index (WoS): 3

H-Index (Scopus): 4