

Lect. TUĞÇE TOPRAK TEPEGÖZ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAW-4032-2021

Yoksis Researcher ID: 368232

Education Information

Doctorate, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey 2018 - Continues

Postgraduate, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey 2016 - 2018

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey 2010 - 2015

Dissertations

Postgraduate, Pedestrian detection for railway driver support systems, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2018

Research Areas

Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Biomedical Image Processing, Electrical and Electronics Engineering

Academic Titles / Tasks

Lecturer, Dokuz Eylul University, İzmir Meslek Yüksekokulu, Teknik Programlar Bölümü, 2022 - Continues

Academic and Administrative Experience

Program Koordinatörü, Dokuz Eylul University, İzmir Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2023 - Continues
Internship Committee Member, Dokuz Eylul University, İzmir Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2022 - Continues

Courses

Trafo ve Doğru Akım Makineleri, Associate Degree, 2022 - 2023, 2021 - 2022
Asenkron ve Senkron Makineler, Associate Degree, 2023 - 2024, 2022 - 2023
Elektrikte Ölçme Tekniği, Associate Degree, 2023 - 2024, 2022 - 2023
Tesisata Giriş, Associate Degree, 2023 - 2024, 2022 - 2023
Elektrikte Ölçme Tekniği, Associate Degree, 2023 - 2024, 2022 - 2023
Temel Elektronik, Associate Degree, 2022 - 2023, 2021 - 2022
Tesisata Giriş, Associate Degree, 2023 - 2024, 2022 - 2023
Asenkron ve Senkron Makineler, Associate Degree, 2023 - 2024, 2022 - 2023
Temel Ev Cihazları, Associate Degree, 2022 - 2023
Trafo ve Doğru Akım Makineleri, Associate Degree, 2022 - 2023, 2021 - 2022
Temel Ev Cihazları, Associate Degree, 2022 - 2023
Temel Elektronik, Associate Degree, 2022 - 2023, 2021 - 2022
Mesleki Yabancı Dil, Associate Degree, 2021 - 2022
Mesleki Yabancı Dil, Associate Degree, 2021 - 2022
Elektromekanik Kumanda Sistemleri, Associate Degree, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Thorax computed tomography (CTX) guided ground truth annotation of CHEST radiographs (CXR) for improved classification and detection of COVID-19**
ERTÜRK Ş. M., TOPRAK T., Cömert R. G., Candemir C., Cingöz E., Akyol Sari Z. N., Ercan C. C., Düvek E., Ersoy B., Karapinar E., et al.
International Journal for Numerical Methods in Biomedical Engineering, vol.40, no.6, 2024 (SCI-Expanded)
- II. **Measurement of the active toxoplasma retinochoroiditis lesion size during the disease course with swept-source optical coherence tomography angiography: A retrospective image analysis**
ATAŞ F., KAYA M., Toprak T., AKBULUT YAĞCI B., Selver A., SAATCI A. O.
INTERNATIONAL OPHTHALMOLOGY, vol.41, no.12, pp.4127-4135, 2021 (SCI-Expanded)
- III. **Utilizing resonant scattering signal characteristics via deep learning for improved classification of complex targets**
Toprak T., SELVER M. A., SEÇMEN M., ZORAL E. Y.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.1, pp.334-348, 2021 (SCI-Expanded)
- IV. **Conditional Weighted Ensemble of Transferred Models for Camera Based Onboard Pedestrian Detection in Railway Driver Support Systems**
Toprak T., Belenlioglu B., Aydin B., Guzelis C., SELVER M. A.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol.69, no.5, pp.5041-5054, 2020 (SCI-Expanded)
- V. **Transferring Synthetic Elementary Learning Tasks to Classification of Complex Targets**
SELVER M. A., Toprak T., SEÇMEN M., ZORAL E. Y.
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, vol.18, no.11, pp.2267-2271, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Pixel-based analysis of pulmonary changes on CT lung images due to COVID-19 pneumonia.**
Soya E., Ekenel N., Savas R., Toprak T., Bewes J., Doganay O.
Journal of clinical imaging science, vol.12, pp.6, 2022 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Selecting Adequate Basis Model for Adaptation in Pedestrian Detection**
toprak T., Özçelikörs M., SELVER M. A.
IEEE 25th International Conference on Intelligent Transportation Systems (ITSC), 08 October 2022
- II. **Otoskleroz Tanısına Yeni Bir Yaklaşım: Volumetrik Dansite Ölçümü ve Radyomik Özellikleri**
BARIŞ M. M., SARI E. A., SARI S., TOPRAK T., OLGUN Y., KARABAY N., GÜNERİ E. A., SELVER M. A.
TÜRK NÖRORADYOLOJİ DERNEĞİ ULUSLARARASI KATILIMLI 31. YIL YILLIK TOPLANTISI, 17 February 2022
- III. **Karmaşık Hedeflerin Aktarımlı Öğrenme ile Sınıflandırmasında Yapay Sinyallerin Başarıma Etkisi**
Toprak T., Selver M. A., Seçmen M., Zoral E. Y.
URSI-TÜRKİYE 2021 X. Bilimsel Kongresi, 7 - 09 September 2021, pp.1-3
- IV. **Ensemble of Pre-Trained Pedestrian Detectors via Non-Maximum Suppression for Better Generalization and Consistent Performance**
Toprak T., Bulucu P., Ozceliorks M., Ciltik A., Alper Selver M.
17th IEEE/ACS International Conference on Computer Systems and Applications, AICCSA 2020, Virtual, Antalya, Turkey, 2 - 05 November 2020
- V. **Limitations of Feature-Classifer Strategies on Pedestrian Detection for Self Driving Cars**
Toprak T., Can B. A., Ozcelikors M., Tekin S. B., SELVER M. A.
2nd International Conference on Electrical, Communication and Computer Engineering, ICECCE 2020, İstanbul, Turkey, 12 - 13 June 2020
- VI. **Utilizing Resonant Scattering Signal Characteristics of Magnetic Spheres via Deep Learning for Improved Target Classification**
SELVER M. A., Toprak T., SEÇMEN M., ZORAL E. Y.
International Symposium on Advanced Electrical and Communication Technologies (ISAECT), Rome, Italy, 27 - 29 November 2019
- VII. **Searching Optimal Values of Identification and Controller Design Horizon Lengths, and Regularization Parameters in NARMA Based Online Learning Controller Design**
Toprak T., ŞAHİN S., Soydemir M. U., Bulucu P., KOCAOĞLU A., Guzelis C.
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.800-804
- VIII. **Machine Learning Based Bounding Box Regression for Improved Pedestrian Detection**
Toprak T., GÜNEL S., Belenlioglu B., Aydin B., ZORAL E. Y., SELVER M. A.
International Symposium on Advanced Electrical and Communication Technologies (ISAECT), Rome, Italy, 27 - 29 November 2019
- IX. **On Diversity and Complementarity of Pedestrian Detection Models**
Toprak T., Belenlioglu B., Dogan S., Aydin B., SELVER M. A.
7th International Conference on Mathematical Modeling in Physical Sciences, IC-MSQUARE 2018, Moscow, Russia, 27 - 31 August 2018, vol.1141
- X. **Camera Based Pedestrian Detection for Railway Driver Support Systems**
Toprak T., SELVER M. A., Belenlioglu B., Dogan S., Aydin B.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018

Supported Projects

Toprak T., Soya E., Doğanay Ö., TUBITAK Project, Küçük Hücreli Dışı Akciğer Kanserinde Radyasyon Pnömonisinin Erken Teşhisine İmkân Sağlayacak Yeni Bir Radyogenomik Tekniğinin Geliştirilmesi, 2023 - 2026
Kocaoğlu A., Güzelis C., Şahin S., TUBITAK Project, Çevrimiçi Kararlılığı Garantileyen Gürbüz Uyarlanı Kontrolör Tasarımı ve Uygulamaları, 2017 - 2020

Scientific Refereeing

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, August 2023
IEEE ACCESS, Journal Indexed in SCI-E, July 2022
IEEE ACCESS, Journal Indexed in SCI-E, July 2022
COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING, Journal Indexed in SCI-E, July 2022
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, March 2022
IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS, Journal Indexed in SCI-E, October 2021
COMPUTERS IN INDUSTRY, Journal Indexed in SCI-E, September 2021
ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING, Journal Indexed in SCI-E, August 2021

Scientific Consultations

Tübitak 1507 (Firma: Roteks Tekstil İhracat Sanayi ve Ticaret Anonim Şirketi), Project Consultancy, Dokuz Eylül University, İzmir Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, Turkey, 2023 - Continues
Healysense Bilgi ve Medikal Teknolojileri Araştırma Geliştirme Danışmanlık Sanayi Ticaret Anonim Şirketi, Scientific Consultancy, Dokuz Eylül University, İzmir Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, Turkey, 2023 - Continues

Metrics

Publication: 16
Citation (WoS): 24
Citation (Scopus): 40
H-Index (WoS): 3
H-Index (Scopus): 3

Awards

Toprak T., Yayın Onur Belgesi, Dokuz Eylül Üniversitesi, October 2023
Selver M. A., Toprak T., Best Workshop Paper Award:, 17Th Acs/Ieee International Conference On Computer Systems And Applications Aiccsa 2020 , November 2020