

Dr. Öğr. Üyesi Ertuğrul BAYRAKTAR

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: A-4705-2015

ScopusID: 57194083975

Yoksis Araştırmacı ID: 29163

Eğitim Bilgileri

Post Doktora, Italian Institute of Technology, The Pattern Analysis and Computer Vision (PAVIS) , Visual Geometry and Modelling (VGM), İtalya 2019 - 2020

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Türkiye 2013 - 2018

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Türkiye 2011 - 2013

Yüksek Lisans, Kadir Has Üniversitesi, Fen Bilimleri Enstitüsü, Finans Mühendisliği, Türkiye 2009 - 2011

Lisans, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, Türkiye 2005 - 2009

Araştırma Alanları

Bilgisayarla Görme, Bilgisayar Öğrenimi, Örüntü Tanıma ve Görüntü İşleme , Sinirsel Ağlar , Sistem Dinamiği ve Kontrolü , Robotik , Mekatronik , Dinamik Sistemlerin Modellenmesi ve Benzetimi

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Yıldız Teknik Üniversitesi, Makine Fakültesi, Mekatronik Mühendisliği, 2021 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Visual detection and tracking of lane violations for heavy vehicles**
Mutlukaya I., Can Karakurt R., Cetinkaya S., BAYRAKTAR E.
Neural Computing and Applications, cilt.36, sa.36, ss.22633-22652, 2024 (SCI-Expanded)
- II. **Improving efficiency and cost of ordering algorithms in pathfinding using shell layers**
Allus A., Diab A. M., BAYRAKTAR E.
Expert Systems with Applications, cilt.238, 2024 (SCI-Expanded)
- III. **Conditional-pooling for improved data transmission**
BAYRAKTAR E., Yigit C. B.
Pattern Recognition, cilt.145, 2024 (SCI-Expanded)
- IV. **Traffic congestion-aware graph-based vehicle rerouting framework from aerial imagery**
BAYRAKTAR E., Korkmaz B. N., Erarslan A. U., Celebi N.

- Engineering Applications of Artificial Intelligence, cilt.119, 2023 (SCI-Expanded)
- V. **Improved object reidentification via more efficient embeddings**
BAYRAKTAR E.
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.31, sa.2, ss.282-294, 2023 (SCI-Expanded)
- VI. **Fast re-OBj: real-time object re-identification in rigid scenes**
Bayraktar E., Wang Y., Delbue A.
MACHINE VISION AND APPLICATIONS, cilt.33, sa.6, 2022 (SCI-Expanded)
- VII. **Similarity based person re-identification for multi-object tracking using deep Siamese network**
Suljagic H., Bayraktar E., Çelebi N.
NEURAL COMPUTING & APPLICATIONS, cilt.34, sa.20, ss.18171-18182, 2022 (SCI-Expanded)
- VIII. **External Force/Torque Estimation With Only Position Sensors for Antagonistic VSAs**
Yigit C. B., BAYRAKTAR E., Kaya O., Boyraz P.
IEEE TRANSACTIONS ON ROBOTICS, cilt.37, sa.2, ss.675-682, 2021 (SCI-Expanded)
- IX. **A low-cost UAV framework towards ornamental plant detection and counting in the wild**
Bayraktar E., Basarkan M. E., Celebi N.
ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING, cilt.167, ss.1-11, 2020 (SCI-Expanded)
- X. **Object manipulation with a variable-stiffness robotic mechanism using deep neural networks for visual semantics and load estimation**
Bayraktar E., Yigit C. B., Boyraz P.
NEURAL COMPUTING & APPLICATIONS, cilt.32, sa.13, ss.9029-9045, 2020 (SCI-Expanded)
- XI. **A hybrid image dataset toward bridging the gap between real and simulation environments for robotics: Annotated desktop objects real and synthetic images dataset: ADORESet**
Bayraktar E., Yigit C. B., Boyraz P.
MACHINE VISION AND APPLICATIONS, cilt.30, sa.1, ss.23-40, 2019 (SCI-Expanded)
- XII. **Low-cost variable stiffness joint design using translational variable radius pulleys**
Yigit C. B., Bayraktar E., Boyraz P.
MECHANISM AND MACHINE THEORY, cilt.130, ss.203-219, 2018 (SCI-Expanded)
- XIII. **Analysis of feature detector and descriptor combinations with a localization experiment for various performance metrics**
Bayraktar E., Boyraz P.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.25, sa.3, ss.2444-2454, 2017 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Advanced Kalman Filter Optimization for Efficient Multi-Object Tracking in Computer Vision**
Bayraktar E.
2024 Innovations in Intelligent Systems and Applications Conference (ASYU), Ankara, Türkiye, 16 - 18 Ekim 2024, ss.1-6
- II. **Efficient and Reliable Surface Defect Detection in Industrial Products Using Morphology-Based Techniques**
Bayraktar E.
12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023, İstanbul, Türkiye, 26 - 28 Mayıs 2023, ss.81-94
- III. **Meyve Bahçesinde Panorama Görüntülerden Derin Öğrenme Tabanlı Elma Tespiti Deep Learning Based Apple Detection from Panorama Images in the Orchard**
PAZARLI E., BAYRAKTAR E.
ELECO 2022, ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI, Bursa, Türkiye, 24 Kasım 2022
- IV. **Combined GANs and Classical Methods for Surface Defect Detection**

Bayraktar E., Tosun B., Altintas B., Celebi N.

2022 30th Signal Processing and Communications Applications Conference (SIU), Karabük, Türkiye, 15 - 18 Mayıs 2022, ss.1-4

V. Visual Recognition of Objects with CNN and Object Manipulation

BAYRAKTAR E., YIĞİT C. B., BOYRAZ P.

2017 International Conference on Mechatronics Systems and Control Engineering (ICMSCE 2017), Kayseri, Türkiye, 2 - 04 Şubat 2017

VI. Tailoring the AI for robotics: Fine-tuning predefined deep convolutional neural network model for a narrower class of objects

BAYRAKTAR E., Yigit C. B., Boyraz P.

2017 International Conference on Mechatronics Systems and Control Engineering, ICMSCE 2017, Kayseri, Türkiye, 2 - 04 Şubat 2017, ss.10-14

VII. Robotic Arm Control By Fine-Tuned Convolutional Neural Network Model

Bayraktar E., Yigit C. B., Boyraz P.

25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017

Metrikler

Yayın: 21

Atıf (WoS): 179

Atıf (Scopus): 221

H-İndeks (WoS): 9

H-İndeks (Scopus): 9

Akademi Dışı Deneyim

Canovate Endüstri Elektronik ve Mühendislik A.Ş.