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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Türkiye 2010 - 2014

Lisans, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1994 - 1999

Yüksek Lisans, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1994 - 1999

Yaptığı Tezler

Doktora, Object recognition in subspaces: Applications in biometry and 3D model retrieval, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2009

Yüksek Lisans, Statistical language models for large vocabulary Turkish speech recognition, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2002

Araştırma Alanları

Bilgisayar Bilimleri, Bilgisayarla Görme, 3B Gösterimler, Bilgisayarla Görme, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma, Örüntü Tanıma ve Görüntü İşleme , Sinirsel Ağlar , Elektrik-Elektronik Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Yrd.Doç.Dr., Eskişehir Osmangazi Üniversitesi, Mühendislik-Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği Bölümü, 2011 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Local region-learning modules for point cloud classification**
TURGUT K., DUTAĞACI H.
MACHINE VISION AND APPLICATIONS, cilt.35, sa.1, 2024 (SCI-Expanded)
- II. **Ordinalysis: Interpretability of multidimensional ordinal data**
Zine-El-Abidine M., DUTAĞACI H., Rousseau D.
SoftwareX, cilt.22, 2023 (SCI-Expanded)

- III. **Using t-distributed stochastic neighbor embedding for visualization and segmentation of 3D point clouds of plants**
DUTAĞACI H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.31, sa.5, ss.792-813, 2023 (SCI-Expanded)
- IV. **Segmentation of structural parts of rosebush plants with 3D point-based deep learning methods**
TURGUT K., DUTAĞACI H., Galopin G., Rousseau D.
Plant Methods, cilt.18, sa.1, 2022 (SCI-Expanded)
- V. **Surface profile-guided scan method for autonomous 3D reconstruction of unknown objects using an industrial robot**
Özkan M., Seçil S., Turgut K., Dutağacı H., Uyanik C., Parlaktuna O.
Visual Computer, cilt.38, sa.11, ss.3953-3977, 2022 (SCI-Expanded)
- VI. **RoseSegNet: An attention-based deep learning architecture for organ segmentation of plants**
TURGUT K., DUTAĞACI H., Rousseau D.
BIOSYSTEMS ENGINEERING, cilt.221, ss.138-153, 2022 (SCI-Expanded)
- VII. **2DLaserNet: A deep learning architecture on 2D laser scans for semantic classification of mobile robot locations**
KALECİ B., TURGUT K., DUTAĞACI H.
Engineering Science and Technology, an International Journal, cilt.28, 2022 (SCI-Expanded)
- VIII. **Assigning apples to individual trees in dense orchards using 3D colour point clouds**
Zine-El-Abidine M., Dutağacı H., Galopin G., Rousseau D.
Biosystems Engineering, cilt.209, ss.30-52, 2021 (SCI-Expanded)
- IX. **ROSE-X: an annotated data set for evaluation of 3D plant organ segmentation methods**
Dutagaci H., Rasti P., Galopin G., Rousseau D.
PLANT METHODS, cilt.16, sa.1, 2020 (SCI-Expanded)
- X. **Semantic classification of mobile robot locations through 2D laser scans**
Kaleci B., Senler C. M., Dutağacı H., Parlaktuna O.
INTELLIGENT SERVICE ROBOTICS, cilt.13, ss.63-85, 2020 (SCI-Expanded)
- XI. **Evaluation of 3D interest point detection techniques via human-generated ground truth**
Dutağacı H., Cheung C. P., Godil A.
VISUAL COMPUTER, cilt.28, ss.901-917, 2012 (SCI-Expanded)
- XII. **Subspace methods for retrieval of general 3D models**
Dutagaci H., Sankur B., Yemez Y.
COMPUTER VISION AND IMAGE UNDERSTANDING, cilt.114, ss.865-886, 2010 (SCI-Expanded)
- XIII. **Representation plurality and fusion for 3-D face recognition**
Goekberk B., Dutagaci H., Ulas A., Akarun L., Sankur B.
IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART B-CYBERNETICS, cilt.38, ss.155-173, 2008 (SCI-Expanded)
- XIV. **Comparative analysis of global hand appearance-based person recognition**
Dutagaci H., Sankur B., Yoruk E.
JOURNAL OF ELECTRONIC IMAGING, cilt.17, 2008 (SCI-Expanded)
- XV. **A unified language model for large vocabulary continuous speech recognition of Turkish**
Arisoy E., Dutagaci H., Arslan L. M.
SIGNAL PROCESSING, cilt.86, ss.2844-2862, 2006 (SCI-Expanded)
- XVI. **Hand biometrics**
Yoeruek E., Dutagaci H., Sankur B.
IMAGE AND VISION COMPUTING, cilt.24, ss.483-497, 2006 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Transfer learning from indoor to outdoor in cultivar testing: application to russetting detection**
El Abidine M. Z., DUTAĞACI H., Rousseau D.
Acta Horticulturae, cilt.1360, ss.245-251, 2023 (Scopus)
- II. **Automatic apple detection in orchards with computer vision and machine learning**
El Abidine M. Z., Ahmad A., DUTAĞACI H., Rousseau D.
Acta Horticulturae, cilt.1360, ss.45-51, 2023 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Robustness of 3D point-based deep learning for plant organ segmentation against point density variation and noise**
TURGUT K., DUTAĞACI H., Rousseau D.
North American Plant Phenotyping Network Annual Conference, St. Louis, Missouri, Amerika Birleşik Devletleri, 13 Şubat 2023
- II. **SEGMENTATION OF PLANT POINT CLOUDS FOR PHENOTYPING**
Yavuz A., Arda B., DUTAĞACI H., Sankur B.
31st IEEE Conference on Signal Processing and Communications Applications (SIU), İstanbul, Türkiye, 5 - 08 Temmuz 2023
- III. **Measuring Electromagnetic Field Strength in Base Stations Using Unmanned Aerial Vehicles**
Isilak C., Durmaz O., Salk Y., Cevikalp H., DUTAĞACI H., Girgin T.
31st IEEE Conference on Signal Processing and Communications Applications (SIU), İstanbul, Türkiye, 5 - 08 Temmuz 2023
- IV. **PLANesT-3D: A new annotated data set of 3D color point clouds of plants**
Mertoglu K., Salk Y., Sarikaya S. K., TURGUT K., EVRENOSOĞLU Y., ÇEVİKALP H., Gerek O. N., DUTAĞACI H., Rousseau D.
31st IEEE Conference on Signal Processing and Communications Applications (SIU), İstanbul, Türkiye, 5 - 08 Temmuz 2023
- V. **SPGS: A new method for autonomous 3D reconstruction of unknown objects by an industrial robot**
UYANIK C., SEÇİL S., ÖZKAN M., DUTAĞACI H., TURGUT K., PARLAKTUNA O.
19th Annual Conference on Towards Autonomous Robotic Systems, TAROS 2018, Bristol, İngiltere, 25 - 27 Temmuz 2018, cilt.10965 LNAI, ss.15-27
- VI. **Quality Sorting of Green Peppers based on Flexure**
Coksoyler C., DUTAĞACI H.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018
- VII. **A Method for Determining Local Coordinate Frames Attached to Objects by a Laser Profile Sensor in Industrial Robot Workspaces**
TURGUT K., DUTAĞACI H., Söyleyici C., SEÇİL S., ÖZKAN M., PARLAKTUNA O., PARLAKTUNA M.
2017 IEEE International Conference on Autonomous Robot Systems and Competitions, Coimbra, Portekiz, 26 Nisan - 28 Aralık 2017, ss.260-265
- VIII. **A Robotic System for Autonomous 3-D Surface Reconstruction of Objects. Design and Implementation**
SEÇİL S., TURGUT K., Söyleyici C., ÖZKAN M., PARLAKTUNA O., DUTAĞACI H., PARLAKTUNA M.
2017 The 3rd International Conference on Control and Automation and Robotics (ICCAR 2017), Nagoya, Japonya, 22 - 24 Nisan 2017, ss.188-191
- IX. **A Method for Determining Local Coordinate Frames Attached to Objects by a Laser Profile Sensor in Industrial Robot Workspaces**
TURGUT K., DUTAĞACI H., Söyleyici C., SEÇİL S., ÖZKAN M., PARLAKTUNA O., Parlaktuna M.
17th IEEE International Conference on Autonomous Robot Systems and Competitions (ICARSC), Coimbra, Portekiz, 26 - 28 Nisan 2017, ss.260-265

- X. **A Robotic System for Autonomous 3-D Surface Reconstruction of Objects**
SEÇİL S., TURGUT K., Soyleyici C., ÖZKAN M., PARLAKTUNA O., DUTAĞACI H., Parlaktuna M.
3rd IEEE International Conference on Control, Automation and Robotics (ICCAR), Nagoya, Japonya, 22 - 24 Nisan 2017, ss.188-191
- XI. **Human detection from still depth images**
Can G. N., DUTAĞACI H.
Electronic Imaging, 3D Image Processing, Measurement (3DIPM), and Applications 2016, 14 - 18 Şubat 2016
- XII. **Detection of humans from depth images**
Can G. N., Cakir B., Namh A. T., DUTAĞACI H.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1477-1480
- XIII. **Design of an Application Programming Interface (API) for Commercial Industrial Robots**
SEÇİL S., Soyleyici C., ÖZKAN M., PARLAKTUNA O., DUTAĞACI H., TURGUT K., Parlaktuna M.
14th IEEE International Conference on Industrial Informatics (INDIN), Poitiers, Fransa, 19 - 21 Temmuz 2016, ss.225-230
- XIV. **Bina İçi Ortamlarda Lazer Mesafe Verisi Kullanarak KuralTabanlı Kapı Bulma**
KALECİ B., Şenler Ç. M., DUTAĞACI H., PARLAKTUNA O.
2. Türkiye Robotbilim Konferansı (ToRK), Türkiye, 26 - 27 Ekim 2015
- XV. **Rule-Based Door Detection Using Laser Range Data in Indoor Environments**
KALECİ B., Senler C. M., DUTAĞACI H., PARLAKTUNA O.
27th IEEE International Conference on Tools with Artificial Intelligence (ICTAI), Vietri sul Mare, İtalya, 9 - 11 Kasım 2015, ss.510-517
- XVI. **A Probabilistic Approach for Semantic Classification Using Laser Range Data in Indoor Environments**
Kaleci B., Senler C. M., Dutağacı H., Parlaktuna O.
International Conference on Advanced Robotics (ICAR), İstanbul, Türkiye, 27 - 31 Temmuz 2015, ss.375-381
- XVII. **Hand based biometry**
Yoruk E., Dutagaci H., Sankur B.
Conference on Image and Video Communications and Processing 2005, San-Jose, Kostarika, 18 - 20 Ocak 2005, cilt.5685, ss.1106-1115
- XVIII. **Transform-based methods for indexing and retrieval of 3D objects**
Dutagaci H., Sankur B., Yemez Y.
5th International Conference on 3-D Digital Imaging and Modeling (3DIM 2005), Ottawa, Kanada, 13 - 16 Haziran 2005, ss.188-195

Metrikler

Yayın: 36

Atıf (WoS): 344

Atıf (Scopus): 473

H-İndeks (WoS): 8

H-İndeks (Scopus): 10