

Doç. Dr. HELİN DUTAĞACI

Kişisel Bilgiler

E-posta: hdutagaci@ogu.edu.tr

Web: <https://avesis.ogu.edu.tr/hdutagaci>

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-4528-9277

ScopusID: 8583578000

Yoksis Araştırmacı ID: 17000

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, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2011 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Local region-learning modules for point cloud classification**
TURGUT K., DUTAĞACI H.
MACHINE VISION AND APPLICATIONS, cilt.35, sa.1, 2024 (SCI-Expanded)
- 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 Bilimsel Toplantılarda Yayımlanmış Bildiriler

- I. **Toward Objective Variety Testing Score Based on Computer Vision and Unsupervised Machine Learning: Application to Apple Shape**
Zine-El-Abidine M., DUTAĞACI H., Rasti P., Aranzana M. J., Dujak C., Rousseau D.
4th International Conference on Image Processing and Vision Engineering, IMPROVE 2024, Angers, Fransa, 2 - 04 Mayıs 2024, ss.15-22
- II. **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
- III. **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
- IV. **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
- V. **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.
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- VI. **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
- VII. **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
- VIII. **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
- IX. **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.
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- X. **A Method for Determining Local Coordinate Frames Attached to Objects by a Laser Profile Sensor in Industrial Robot Workspaces**
TURGUT K., DUTAĞACI H., Soyleyici 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
- XI. **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
- XII. **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
- 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. **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
- XV. **Bina İçeri 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
- XVI. **Rule-Based Door Detection Using Laser Range Data in Indoor Environments**
KALECİ B., Şenler 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
- XVII. **A Probabilistic Approach for Semantic Classification Using Laser Range Data in Indoor Environments**
Kaleci B., Şenler C. M., Dutağacı H., Parlaktuna O.
International Conference on Advanced Robotics (ICAR), İstanbul, Türkiye, 27 - 31 Temmuz 2015, ss.375-381
- XVIII. **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
- XIX. **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

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