

# **Dr.Öğr.Üyesi PINAR ULUER**

## **Kişisel Bilgiler**

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## **Uluslararası Araştırmacı ID'leri**

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Publons / Web Of Science ResearcherID: AAA-4903-2020

ScopusID: 55337137400

Yoksis Araştırmacı ID: 184772

## **Eğitim Bilgileri**

Doktora, İstanbul Teknik Üniversitesi, Lisansüstü Eğitim Enstitüsü, Mekatronik Mühendisliği (Dr), Türkiye 2013 - 2023  
Yüksek Lisans, Galatasaray Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Türkiye 2009 - 2013  
Lisans, Galatasaray Üniversitesi, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, Türkiye 2005 - 2009

## **Yabancı Diller**

İngilizce, C1 İleri

Fransızca, C1 İleri

## **Yaptığı Tezler**

Doktora, Social Behavior Learning For An Assistive Companion Robot, İstanbul Teknik Üniversitesi, Lisansüstü Eğitim Enstitüsü, 2023

Yüksek Lisans, Measurement of Human Driver's Authority and Implementation of Assistance System on a Simulator Study, Galatasaray Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2012

## **Araştırma Alanları**

Robotik ve Mekatronik Sistemler, İnsan ve Robot Etkileşimi, İnsansı Robotlar, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma

## **Akademik Unvanlar / Görevler**

Dr.Öğr.Üyesi, Galatasaray Üniversitesi, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisligi, 2023 - Devam Ediyor  
Araştırma Görevlisi, Galatasaray Üniversitesi, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisligi, 2010 - 2023

## **Verdiği Dersler**

Yapay Zeka, Lisans, 2023 - 2024

Robotik, Lisans, 2023 - 2024

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **Experience with an Affective Robot Assistant for Children with Hearing Disabilities**  
ULUER P., Köse H., Gümüşlu E., EROL BARKANA D.  
INTERNATIONAL JOURNAL OF SOCIAL ROBOTICS, cilt.15, sa.4, ss.643-660, 2023 (SCI-Expanded)
- II. **Contrastive learning based facial action unit detection in children with hearing impairment for a socially assistive robot platform**  
Gurpinar C., Takır Ş., Biçer E., ULUER P., Arica N., Köse H.  
Image and Vision Computing, cilt.128, 2022 (SCI-Expanded)
- III. **Robot-Based Intervention for Children With Autism Spectrum Disorder: A Systematic Literature Review**  
Bartl-Pokorny K. D., Pykala M., ULUER P., Barkana D. E., Baird A., Köse H., Zorcec T., Robins B., Schuller B. W., Landowska A.  
IEEE ACCESS, cilt.9, ss.165433-165450, 2021 (SCI-Expanded)
- IV. **Sign Recognition System for an Assistive Robot Sign Tutor for Children**  
Gurpinar C., Uluer P., Akalin N., Köse H.  
INTERNATIONAL JOURNAL OF SOCIAL ROBOTICS, cilt.12, sa.2, ss.355-369, 2020 (SCI-Expanded)
- V. **A New Robotic Platform for Sign Language Tutoring Humanoid Robots as Assistive Game Companions for Teaching Sign Language**  
ULUER P., Akalin N., Köse H.  
INTERNATIONAL JOURNAL OF SOCIAL ROBOTICS, cilt.7, sa.5, ss.571-585, 2015 (SCI-Expanded)
- VI. **The Effect of Embodiment in Sign Language Tutoring with Assistive Humanoid Robots**  
Köse H., Uluer P., Akalin N., Yorgancı R., Ozkul A., İnce G.  
INTERNATIONAL JOURNAL OF SOCIAL ROBOTICS, cilt.7, sa.4, ss.537-548, 2015 (SCI-Expanded)
- VII. **iSign: An Architecture for Humanoid Assisted Sign Language Tutoring**  
Köse H., Akalin N., Yorgancı R., Ertugrul B. S., Kivrak H., Kavak S., Ozkul A., Gurpinar C., Uluer P., İnce G.  
INTELLIGENT ASSISTIVE ROBOTS: RECENT ADVANCES IN ASSISTIVE ROBOTICS FOR EVERYDAY ACTIVITIES, cilt.106, ss.157-184, 2015 (SCI-Expanded)
- VIII. **Socially Interactive Robotic Platforms as Sign Language Tutors**  
Köse H., Akalin N., Uluer P.  
INTERNATIONAL JOURNAL OF HUMANOID ROBOTICS, cilt.11, sa.1, 2014 (SCI-Expanded)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Exploring the Potential of Multimodal Emotion Recognition for Hearing-Impaired Children Using Physiological Signals and Facial Expressions**  
Takır Ş., Toprak E., ULUER P., Erol Barkana D., Köse H.  
25th International Conference on Multimodal Interaction, ICMI 2023 Companion, Paris, Fransa, 9 - 13 Ekim 2023, ss.398-405
- II. **Investigation of Physiological Features by Age Groups in Children with Autism**  
Toprak E., Bilgin Aktas S. N., Coskun B., ULUER P., Köse H., Barkana D. E.  
36th IEEE International Symposium on Computer-Based Medical Systems, CBMS 2023, L'Aquila, İtalya, 22 - 24 Haziran 2023, cilt.2023-June, ss.287-292
- III. **Stress Detection of Children With ASD Using Physiological Signals Fizyolojik Sinyaller Kullanılarak**

**Otizmli Çocuklarda Stres Tanıma**

Aktas S. N. B., ULUER P., Coskun B., Toprak E., Barkana D. E., Köse H., Zorcec T., Robins B., Landowska A.  
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Türkiye, 15 - 18 Mayıs 2022

**IV. Masking and Compression Techniques for Efficient Action Unit Detection of Children for Social Robots Sosyal Robotlar için Çocuklarda Yüz Eylem Birimi Tespitinde Maskeleme ve Sıkıştırma Teknikleri**

Biçer E., Takır Ş., Gurpinar C., ULUER P., Köse H.

30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Türkiye, 15 - 18 Mayıs 2022

**V. Stress Detection of Children with Autism using Physiological Signals in Kaspar Robot-Based Intervention Studies**

Coskun B., ULUER P., Toprak E., Barkana D. E., Köse H., Zorcec T., Robins B., Landowska A.

9th IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics, BioRob 2022, Seoul, Güney Kore, 21 - 24 Ağustos 2022, cilt.2022-August

**VI. A new facial expression processing system for an affectively aware robot**

Baglayici E., Gurpinar C., Uluer P., Köse H.

25th International Conference on Pattern Recognition Workshops, ICPR 2020, Virtual, Online, 10 - 15 Ocak 2021, cilt.12662 LNCS, ss.36-51

**VII. Physiological Data-Based Evaluation of a Social Robot Navigation System**

Kivrak H., ULUER P., Köse H., Gümüşlu E., Erol Barkana D., ÇAKMAK F., YAVUZ S.

29th IEEE International Conference on Robot and Human Interactive Communication, RO-MAN 2020, Virtual, Naples, İtalya, 31 Ağustos - 04 Eylül 2020, ss.994-999

**VIII. Towards An Affective Robot Companion for Audiology Rehabilitation: How Does Pepper Feel Today?**

ULUER P., Köse H., Oz B. K., Can Aydinalev T., Barkana D. E.

29th IEEE International Conference on Robot and Human Interactive Communication, RO-MAN 2020, Virtual, Naples, İtalya, 31 Ağustos - 04 Eylül 2020, ss.567-572

**IX. Interactive Games with an Assistive Robotic System for Hearing-Impaired Children**

Uluer P., Akalin N., Gurpinar C., Köse H.

14th Association-for-the-Advancement-of-Assistive-Technology-in-Europe (AAATE) Conference - Harnessing the Power of Technology to Improve Lives, Sheffield, Birleşik Krallik, 12 - 15 Eylül 2017, cilt.242, ss.298-305

**X. Non-verbal Communication with a Social Robot Peer: Towards Robot Assisted Interactive Sign Language Tutoring**

Akalin N., Uluer P., Köse H.

14th IEEE-RAS International Conference on Humanoid Robots (Humanoids), Madrid, İspanya, 18 - 20 Kasım 2014, ss.1122-1127

**XI. Learning Sign Language from a Social Robot Peer by Playing an Interactive Game**

Uluer P., Akalin N., Köse H.

14th IEEE-RAS International Conference on Humanoid Robots (Humanoids), Madrid, İspanya, 18 - 20 Kasım 2014, ss.437

**XII. Humanoid Robots Communication with Participants Using Sign Language: An Interaction Based Sign Language Game**

Akalin N., ULUER P., Köse H., Ince G.

IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO), Tokyo, Japonya, 7 - 09 Kasım 2013, ss.181-183

**XIII. EVALUATION OF DRIVERS AUTHORITY IN A STRUCTURED SET OF DRIVING TASKS AND DECISIONS: PRELIMINARY RESULTS ON VEHICLE SIMULATOR STUDY**

ULUER P., Gocmenoglu C., ACARMAN T.

11th ASME Biennial Conference on Engineering Systems Design and Analysis, (ESDA 2012), Nantes, Fransa, 2 - 04 Temmuz 2012, ss.803-811

**XIV. Driver's Authority Monitoring System for Intelligent Vehicles: A Feasibility Study**

## Desteklenen Projeler

Köse H., Uluer P., Erasmus Projesi, EMBOA : Affective loop in Socially Assistive Robotics as an intervention tool for children with autism, 2019 - 2023

Köse H., TÜBİTAK Projesi, Roborehab: Yardımcı Odyoloji Rehabilitasyon Robotu (118E214), 2018 - 2021

Köse H., TÜBİTAK Projesi, Türkçe Den Türk İşaret Diline Otomatik Çeviri Sistemi Ve Avatar Animasyonu, 2014 - 2017

Köse H., TÜBİTAK Projesi, Robot İşaret Dili Eğitmeni, 2012 - 2015

## Metrikler

Yayın: 22

Atıf (WoS): 75

Atıf (Scopus): 91

H-İndeks (WoS): 5

H-İndeks (Scopus): 5