

Asst. Prof. Kerem ALTUN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: KIA-1625-2024

ScopusID: 23567569000

Yoksis Researcher ID: 178204

Education

Doctorate, Ihsan Dogramaci Bilkent University, Faculty of Engineering, Electrical and Electronics Engineering, Turkey
2005 - 2011

Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey
1999 - 2002

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey
1995 - 1999

Research Areas

Avesis Research Areas: Artificial Intelligence, Computer Learning and Pattern Recognition, Motion Analysis, Electrical and Electronics Engineering, Sensing Devices and Transducers, System Dynamics and Control, Robotics, Mechatronics

WoS Research Areas: Engineering, Computing & Technology (ENG), COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS, ENGINEERING, MECHANICAL, ENGINEERING, ELECTRICAL & ELECTRONIC, ROBOTICS

Scopus Research Areas: Computer Graphics and Computer-Aided Design, Automotive Engineering, Signal Processing

Academic Positions

Assistant Professor, Yildiz Technical University, Faculty of Electrical & Electronics, Control And Automation Engineering,
2024 - Present

Assistant Professor, Isik University, Mühendislik ve Doğa Bilimleri Fakültesi, Mechanical Engineering, 2022 - 2024

Assistant Professor, Izmir Institute Of Technology, Faculty of Engineering, Mechanical Engineering, 2020 - 2022

Assistant Professor, Isik University, Mühendislik ve Doğa Bilimleri Fakültesi, Makine Mühendisliği, 2016 - 2020

Researcher, The University of British Columbia, Faculty of Science, Computer Science, 2011 - 2012

Research Assistant, Ihsan Dogramaci Bilkent University, Elektrik ve Elektronik Mühendisliği, 2006 - 2011

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering,
1999 - 2005

Articles

- I. **Kinematic analysis of the crossover step technique in elite female volleyball players**
Yarkin G., Uysal A. A., Yucel S., Stone M. H., ALTUN K.
JOURNAL OF SPORTS MEDICINE AND PHYSICAL FITNESS, 2026 (SCI-Expanded, Scopus)
- II. **Recognizing affect in human touch of a robot**
Altun K., MacLean K. E.
Pattern Recognition Letters, vol.66, pp.31-40, 2015 (SCI-Expanded, Scopus)
- III. **Pedestrian dead reckoning employing simultaneous activity recognition cues**
Altun K., Barshan B.
Measurement Science and Technology, vol.23, no.2, 2012 (SCI-Expanded, Scopus)
- IV. **Comparative study on classifying human activities with miniature inertial and magnetic sensors**
Altun K., Barshan B., Tunçel O.
Pattern Recognition, vol.43, no.10, pp.3605-3620, 2010 (SCI-Expanded, Scopus)
- V. **Representing and evaluating ultrasonic maps using active snake contours and Kohonen's self-organizing feature maps**
Altun K., Barshan B.
Autonomous Robots, vol.29, no.2, pp.151-168, 2010 (SCI-Expanded, Scopus)
- VI. **Classifying human leg motions with uniaxial piezoelectric gyroscopes**
Tunçel O., Altun K., Barshan B.
Sensors, vol.9, no.11, pp.8508-8546, 2009 (SCI-Expanded, Scopus)

Books

- I. **Human activity recognition using inertial/magnetic sensor units**
ALTUN K., BARSHAN ÖZAKTAŞ B.
in: Human Behavior Understanding, , Editor, Springer, pp.38-51, 2010
- II. **Performance evaluation of ultrasonic arc map processing techniques by active snake contours**
ALTUN K., BARSHAN ÖZAKTAŞ B.
in: European Robotics Symposium 2008 (Springer Tracts in Advanced Robotics (44)), , Editor, Springer, pp.185-194, 2008

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Farklı Kurs Profilleri için Altı Çubuk Mekanizmasında Pso Tabanlı Parametre Optimizasyonu**
Özer A. C., Şahin M., Keser Z., Karagüzel U., Altun K.
22. Ulusal Makina Teorisi Sempozyumu, Ankara, Turkey, 3 - 05 September 2025, pp.96-105, (Full Text)
- II. **Touch Location Error Analysis of a Low-Cost Piezoresistive Array Sensor D s k Maliyetli Bir Piezodiren Dizili Sens r n Dokunma Konum Hatası Analizi**
ALTUN K., Sarp M. O.
33rd IEEE Conference on Signal Processing and Communications Applications, SIU 2025, İstanbul, Turkey, 25 - 28 June 2025, (Full Text)
- III. **Experimental Evaluation of the Success of Peg-in-Hole Tasks Learned from Demonstration**
ARGÜZ S. H., ERTUĞRUL Ş., ALTUN K.
International Conference on Control, Decision and Information Technologies, İstanbul, Turkey, 17 May 2022, pp.861-866, (Full Text)
- IV. **Recognizing touch gestures for social human-robot interaction**
Altınlı T. B., Altun K.
ACM International Conference on Multimodal Interaction, ICMI 2015, Washington, United States Of America, 9 - 13 November 2015, pp.407-413, (Full Text)
- V. **Real-time gait classification for persuasive smartphone apps: Structuring the literature and pushing**

the limits

Schneider O. S., MacLean K. E., Altun K., Karuei I., Wu M. M.

18th International Conference on Intelligent User Interfaces, IUI 2013, Santa Monica, CA, United States Of America, 19 - 22 March 2013, pp.161-172, (Full Text)

VI. Employing active contours and artificial neural networks in representing ultrasonic range data

ALTUN K., BARSHAN ÖZAKTAŞ B.

European Signal Processing Conference, Switzerland, 25 August 2008, (Full Text)

VII. Evaluation of egocentric navigation methods

Altun K., KOKU A. B.

14th IEEE Workshop on Robot and Human Interactive Communication, RO-MAN 2005, Nashville, TN, United States Of America, 13 - 15 August 2005, vol.2005, pp.396-401, (Full Text)

VIII. Systematic state equation derivation for linear systems using the normal tree method

Altun K., PLATİN B. E., BALKAN R. T.

2003 ASME International Mechanical Engineering Congress, Washington, United States Of America, 15 - 21 November 2003, vol.72, pp.869-877, (Full Text)

Funded Projects

YAŞAR C. F., GAZİ V., ETE A., UCUN L., ALTUN K., EROL B., ADIGÜZEL F., TACAL UCUN B., Project Supported by Higher Education Institutions, BAP Other, SismoSense Güvenli Yapılar için Gerçek Zamanlı İzleme ve Kontrol, 2025 - Present

KARAGÜZEL U., LİVATYALI H., ALTUN K., Uzun S., Project Supported by Higher Education Institutions, BAP Guided, WAAM (Wire Arc Additive Manufacturing) PROSESİNDE MAKİNE ÖĞRENMESİ İLE YÜKSEK KALİTEDE YAPISAL PARÇA ÜRETİMİ, 2025 - Present

Altun K., Yücel H. S., TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Measurement of Asymmetry in Jump and Volleyball Spike Movements Using Wearable Inertial Sensors, 2025 - 2027

Metrics

Publication: 16

Citation (WoS): 571

Citation (Scopus): 720

H-Index (WoS): 5

H-Index (Scopus): 6