Asst. Prof. Kerem ALTUN

Personal Information

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International Researcher IDs
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Education Information

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

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

Academic Titles / Tasks

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

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

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Recognizing affect in human touch of a robot**
Altun K., MacLean K. E.
Pattern Recognition Letters, vol.66, pp.31-40, 2015 (SCI-Expanded)

II. **Pedestrian dead reckoning employing simultaneous activity recognition cues**
Altun K., Barshan B.
Measurement Science and Technology, vol.23, no.2, 2012 (SCI-Expanded)

III. **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)

IV. **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)

V. **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)

Books & Book Chapters

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

Refereed Congress / Symposium Publications in Proceedings

I. **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

II. **Recognizing touch gestures for social human-robot interaction**
Altuşlu T. B., Altun K.
ACM International Conference on Multimodal Interaction, ICMI 2015, Washington, United States Of America, 9 - 13 November 2015, pp.407-413

III. **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

IV. **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

V. **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

VI. **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

Supported Projects

Altun K., Yücel H. S., TUBITAK Project, Measurement of Asymmetry in Jump and Volleyball Spike Movements Using Wearable Inertial Sensors, 2025 - 2027

Metrics

Publication: 13
Citation (Scopus): 640
H-Index (Scopus): 6