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Personal Information

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International Researcher IDs

ScholarID: TK6-UqAAAAAJ

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Publons / Web Of Science ResearcherID: EXW-7901-2022

ScopusID: 55364642900

Yoksis Researcher ID: 164171

Education

Doctorate, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2010 - 2016

Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2007 - 2010

Undergraduate, Baskent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2002 - 2010

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Single and multi-frame motion deblurring for legged robots: Characterization using a novel FD-AROC performance metric and a comprehensive motion-blur dataset, Middle East Technical University, Felsefe, Medeni Hukuk, 2016

Postgraduate, An FPGA based high performance optical flow hardware design for autonomous mobile robotic platforms, Middle East Technical University, Felsefe, Medeni Hukuk, 2010

Research Areas

Computer Vision, Pattern Recognition and Image Processing, Electrical and Electronics Engineering

Academic Positions

Assistant Professor, Ankara Yıldırım Beyazıt University, Mühendislik ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik

Mühendisliği, 2019 - Continues

Research Assistant, Middle East Technical University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2009 - 2016

Research Assistant, Baskent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2007 - 2008

Journal articles indexed in SCI, SSCI, and AHCI

- I. **IMU-aided adaptive mesh-grid based video motion deblurring**
Arslan A., GÜLTEKİN G. K., SARANLI A.
PeerJ Computer Science, vol.10, pp.1-28, 2024 (SCI-Expanded)
- II. **Multi-Frame motion deblurring of video using the natural oscillatory motion of dexterous legged robots**
Gultekin G. K., SARANLI A.
IET Image Processing, vol.13, no.9, pp.1502-1508, 2019 (SCI-Expanded)
- III. **Feature Detection Performance Based Benchmarking of Motion Deblurring Methods: Applications to Vision for Legged Robots**
Gultekin G. K., SARANLI A.
Image and Vision Computing, vol.82, pp.26-38, 2019 (SCI-Expanded)
- IV. **An FPGA based high performance optical flow hardware design for computer vision applications**
Gultekin G. K., SARANLI A.
Microprocessors and Microsystems, vol.37, no.3, pp.270-286, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **SCOLIOSIS SCREENING FROM PLAIN RADIOGRAPHS INCLUDING CHEST AND ABDOMINAL X RAYS BY USING THE DEEP LEARNING METHOD: IS IT WORTH?**
BAYMURAT A. C., Üreten K., Tolunay T., GÜLTEKİN G. K., Tosun M. F., ÇALTA M. Ş., ŞENKÖYLÜ A., ATALAR H.
Journal of Turkish Spinal Surgery, vol.35, no.2, pp.49-54, 2024 (Scopus)
- II. **Classification of Banana Ripeness Levels Using Deep Learning Methods for Agricultural Automation Systems**
DULKADİR S., GÜLTEKİN G. K.
EMO Bilimsel Dergi, vol.13, no.3, pp.27-34, 2023 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **A Novel Nash-Based Matching Approach for Multirobot Task Allocation in Distributed Robotic Networks**
Hamidoğlu A., Gül Ö. M., GÜLTEKİN G. K., Kadry S. N.
7th EAI International Conference on Robotics and Networks, ROSENET 2023, İstanbul, Turkey, 15 - 16 December 2023, pp.3-15, (Full Text)
- II. **A COGNITIVE CAMERA SYSTEM FOR INCREASING FACE RECOGNITION PERFORMANCE IN BACKLIT CONDITIONS**
GÜLTEKİN G. K., Ergül M., Hakyemez A. D., SARANLI A., ALATAN A. A., Üstün İ. E.
Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies VI 2022, Berlin, Germany, 5 - 06 September 2022, vol.12275, (Full Text)
- III. **Motion deblurring utilizing the variable speed egomotion of camera and comparison based on corner feature points** Değişken Hızlı Kamera Öz Hareketinden Kaynaklanan Hareket Bulanıklığının

Giderilmesi ve Köşe Öznitelik Noktaları Temelli Karşılaştırma

Gultekin G. K., SARANLI A.

25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017, (Full Text)

- IV. **Değişken Hızlı Kamera Öz Hareketinden Kaynaklanan Hareket Bulanıklığının Giderilmesi ve Köşe Öznitelik Noktaları Temelli Karşılaştırma**
GÜLTEKİN G. K., SARANLI A.
Sinyal İşleme ve İletişim Uygulamaları, 15 May 2017, (Full Text)
- V. **An Experimental Approach to Motion Blur Estimation in Legged Mobile Robot Platforms**
Boyacı H., Özkan M. D., Sargun D., GÜLTEKİN G. K., SARANLI A.
International Symposium on Innovative Technologies in Engineering and Science, 18 June 2014, (Full Text)
- VI. **A genetic algorithm based solution to constrained component placement of a mobile robot**
Gültekin G. K., Ögücü M. O., Sayginer E., SARANLI A.
International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2012, Trabzon, Turkey, 2 - 04 July 2012, (Full Text)
- VII. **A Statistical Predictive Model for Legged Robot Motion: Application to Pose Estimation**
EGE E., GÜLTEKİN G. K., SARANLI A.
International Conference on Applied and Computational Mathematics, 06 June 2012, (Full Text)
- VIII. **Araba Benzeri Gezgin Robotun Köşe Dönmesinin Bulanık Mantıkla Denetimi**
ERDEM H., GÜLTEKİN G. K.
Akıllı Sistemlerde Yenilikler ve Uygulamaları, 19 June 2008, (Full Text)
- IX. **Design of Intelligent Wrestling Sumo Robot**
ERDEM H., GÜLTEKİN G. K.
International Symposium on Innovations in Intelligent Systems and Applications, 20 - 23 June 2007, (Full Text)

Metrics

Publication: 15

Citation (Scopus): 31

H-Index (Scopus): 2

Non Academic Experience

ODTÜ Görüntü Analiz Merkezi / ODTÜ Teknokent A.Ş., Kıdemli Araştırmacı