

## Asst. Prof. RAMAZAN DUVAR

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAR-2054-2020

Yoksis Researcher ID: 124759

### Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, Turkey 2012 - 2019

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, Turkey 2010 - 2012

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, Turkey 2006 - 2010

### Dissertations

Doctorate, HEVC İçin Hızlı Hareket Kestirimi ve Mod Seçimi Yaklaşımları, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2019

Postgraduate, Araç Lastiği Sırt Profilinin Bilgisayarda Görü Yaklaşımı ile Kalite Kontrolü, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2012

### Research Areas

Robotics and Mechatronics Systems, Computer Vision, Signal Processing, Image and Video Processing, Pattern Recognition and Analysis, Computer Sciences, algorithms, Computer Graphics, Computer Vision, Equipment, Artificial Intelligence, Computer Learning and Pattern Recognition, Software, Electronic

### Academic Titles / Tasks

Assistant Professor, Kocaeli University, Havacılık ve Uzay Bilimleri Fakültesi, Havacılık Elektrik Elektronik, 2020 - Continues

Assistant Professor, Dogus University, Faculty Of Engineering, Department Of Software Engineering, 2019 - 2020

Research Assistant, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2012 - 2019

### Published journal articles indexed by SCI, SSCI, and AHCI

- SIMD-based low bit-depth motion estimation with application to HEVC**  
DUVAR R., KÜÇÜKMANİSA A., AKBULUT O., Celebi A., URHAN O.

SIGNAL IMAGE AND VIDEO PROCESSING, vol.17, no.4, pp.1449-1456, 2023 (SCI-Expanded)

- II. **A deep learning based fast lane detection approach**  
Oğuz E., Küçükmanisa A., Duvar R., Urhan O.  
Chaos, Solitons and Fractals, vol.155, 2022 (SCI-Expanded)
- III. **An Efficient Word Embedding and Deep Learning Based Model to Forecast the Direction of Stock Exchange Market Using Twitter and Financial News Sites: A Case of Istanbul Stock Exchange (BIST 100)**  
Kilimci Z. H., Duvar R.  
IEEE Access, vol.8, pp.188186-188198, 2020 (SCI-Expanded)
- IV. **KEBOT: An Artificial Intelligence Based Comprehensive Analysis System for FUE Based Hair Transplantation**  
Erdogan K., Acun O., Küçükmanisa A., Duvar R., Bayramoglu A., Urhan O.  
IEEE ACCESS, vol.8, pp.200461-200476, 2020 (SCI-Expanded)
- V. **Fast inter mode decision exploiting intra-block similarity in HEVC**  
Duvar R., AKBULUT O., URHAN O.  
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.78, pp.503-510, 2019 (SCI-Expanded)
- VI. **Assessment of the performance of low Bit-Depth representation based motion estimation methods on HEVC**  
Duvar R., KÜÇÜKMANİSA A., AKBULUT O., Celebi A., URHAN O.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.2, pp.786-799, 2019 (SCI-Expanded)
- VII. **Adaptive bit-plane selection-based low complexity motion estimation for screen content coding**  
Duvar R., URHAN O.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.5, pp.2206-2217, 2018 (SCI-Expanded)
- VIII. **Fuzzy Fusion Based High Dynamic Range Imaging using Adaptive Histogram Separation**  
CELEBI A., Duvar R., URHAN O.  
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.61, no.1, pp.119-127, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A Review on Visual Inspection Methods for Aircraft Maintenance**  
Böyük M., Duvar R., Urhan O.  
Havacılık ve Uzay Teknolojileri Dergisi, vol.14, no.2, pp.185-192, 2021 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **İnsansız Hava Aracından Alınan Görüntüler ile Derin Öğrenme Tabanlı Araç Tespiti**  
BÖYÜK M., DUVAR R., URHAN O.  
Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı, Turkey, 15 October 2020
- II. **Deep Learning Based Vehicle Detection with Images Taken from Unmanned Air Vehicle İnsansız Hava Aracından Alınan Görüntüler ile Derin Öğrenme Tabanlı Araç Tespiti**  
BÖYÜK M., DUVAR R., URHAN O.  
2020 Innovations in Intelligent Systems and Applications Conference, ASYU 2020, İstanbul, Turkey, 15 - 17 October 2020
- III. **Performance analysis of one-bit transform based motion estimation using sparse search on HEVC HEVC'de seyrek arama kullanarak bir-bit dönüşümlü hareket kestiriminin performans analizi**  
Duvar R., KÜÇÜKMANİSA A., AKBULUT O., CELEBI A., URHAN O.  
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May

2018, pp.1-4

- IV. **Real-time lane marking detection using modified 1-bit transform based pre-processing Geliştirilmiş 1-Bit Dönüşümü Temelli Ön İşlem Kullanarak Gerçek Zamanlı Şerit İşaret Tespiti**  
KÜÇÜKMANİSA A., Duvar R., URHAN O.  
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- V. **Multi band pass filter based one-bit transforms in motion estimation Hareket Kestiriminde Çoklu Bant Geçiren Süzgeç tabanlı Bir Bit Dönüşümleri**  
AKBULUT O., Duvar R., KÜÇÜKMANİSA A., URHAN O.  
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- VI. **Implementation of 1-Bit Transform Based Motion Estimation to HEVC Encoder**  
Duvar R., KÜÇÜKMANİSA A., OrhanAkbulut O., CELEBİ A., URHAN O.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- VII. **Performance evaluation of low bit-dept based motion estimation approaches on screen content video Düşük Bit-Derinliği Temelli Hareket Kestirim Yaklaşımlarının Ekran İçerik Görüntülerindeki Başarımlarının Değerlendirilmesi**  
Duvar R., URHAN O.  
24th Signal Processing and Communication Application Conference, SIU 2016, Zonguldak, Turkey, 16 - 19 May 2016, pp.2141-2144
- VIII. **High Dynamic Range Imaging on a Mobile Device Using Single Input Image**  
TAŞYAPI ÇELEBİ A., Duvar R., Urhan O.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1582-1585
- IX. **Real-Time Implementation of 1-Dimensional Projection Based Video Stabilization On a Mobile Device**  
Duvar R., URHAN O.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1914-1917
- X. **Panoramik Kamera Sistemi PAN KAM**  
TEKYILDIZ A., GÜVENEL Ç., DUVAR R., ÇELEBİ A., URHAN O., ERTÜRK S.  
Gömülü Sistemler ve Uygulamaları Sempozyumu (gÖMsS 2012), İstanbul, Turkey, 29 - 30 November 2012, vol.1, pp.113-114
- XI. **Real time control of tyre profiles using computer vision approach Lastik profillerinin bilgisayarda görü yaklaşımı ile gerçek zamanlı kontrolü**  
Duvar R., Gökbayrak A. B., Aytekin H. S., GÜLLÜ M. K., URHAN O., ERTÜRK S.  
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Muğla, Turkey, 18 - 20 April 2012

## Supported Projects

DUVAR R., ÇORUH N., BÖYÜK M., KÜÇÜKMANİSA A., DURAN A., Project Supported by Higher Education Institutions, İnsansız Hava Aracı ve Görüntü İşleme Temelli Uçak Muayene Sistemi, 2020 - Continues

Duvar R., KÜÇÜKMANİSA A., TUBITAK Project, Baskı Makineleri İçin Görüntü İşleme Temelli Kalite Kontrol Sistemi, 2021 - 2022

## Metrics

Publication: 28

Citation (WoS): 44

Citation (Scopus): 83

H-Index (WoS): 4

H-Index (Scopus): 5