

Asst. Prof. AYHAN KÜÇÜKMANİSA

Personal Information

Email: ayhan.kucukmanisa@kocaeli.edu.tr

Web: <https://avesis.kocaeli.edu.tr/1883>

Education Information

Doctorate, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği (Dr), Turkey 2012 - 2018

Post Graduate, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği (YI) (Tezli), Turkey 2010 - 2012

Under Graduate, Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 2006 - 2010

Dissertations

Doctorate, GÖMÜLÜ PLATFORMLAR İÇİN GÖRÜNTÜ İŞLEME TEMELLİ GERÇEK ZAMANLI ŞERİT TESPİT VE UYARI YÖNTEMLERİ, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği (Doktora), 2018

Post Graduate, Dsp ile gerçek zamanlı sayısal video stabilizasyonu, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği (YI) (Tezli), 2012

Research Areas

Information Systems, Communication and Control Engineering, Robotics and Mechatronics Systems, Computer Vision, Signal Processing, Image and Video Processing, Pattern Recognition and Analysis, Computer Sciences, algorithms, Computer Graphics, Computer Graphics, Computer Vision, Computer Vision, Equipment, Processor Architectures, Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Learning, Pattern Recognition and Image Processing, Neural Networks, Software, Programming Languages, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, 2013 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **A real-time defective pixel detection system for LCDs using deep learning based object detectors**
ÇELİK A., KÜÇÜKMANİSA A., Sumer A., Celebi A. T. , URHAN O.
JOURNAL OF INTELLIGENT MANUFACTURING, 2020 (Journal Indexed in SCI)
- II. **Real-time illumination and shadow invariant lane detection on mobile platform**
KÜÇÜKMANİSA A., Tarim G., URHAN O.
JOURNAL OF REAL-TIME IMAGE PROCESSING, vol.16, no.5, pp.1781-1794, 2019 (Journal Indexed in SCI)
- III. **Robust and real-time lane detection filter based on adaptive neuro-fuzzy inference system**
KÜÇÜKMANİSA A., AKBULUT O., URHAN O.
IET IMAGE PROCESSING, vol.13, no.7, pp.1181-1190, 2019 (Journal Indexed in SCI)

- IV. **Assessment of the performance of low Bit-Depth representation based motion estimation methods on HEVC**
Duvar R., KÜÇÜKMANİSA A., AKBULUT O., Celebi A. T. , URHAN O.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.2, pp.786-799, 2019 (Journal Indexed in SCI)
- V. **Gömülü bir platform üzerinde gerçek zamanlı şeritten ayrılma uyarı sistemi**
KÜÇÜKMANİSA A., URHAN O.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.32, pp.1287-1300, 2017 (Journal Indexed in SCI Expanded)
- VI. **Real-time lane departure warning system on an embedded platform**
KÜÇÜKMANİSA A., URHAN O.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.4, pp.1287-1300, 2017 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Deep Learning Based Road Crack Detection on an Embedded Platform**
ALTIN N., KÜÇÜKMANİSA A., URHAN O.
Deep Learning Based Road Crack Detection on an Embedded Platform, 2018 (Refereed Journals of Other Institutions)
- II. **Real-Time Lane Marking Detection Using Weighted Filter**
KÜÇÜKMANİSA A., AKBULUT O., URHAN O.
International Journal of Computer and Information Engineering, 2018 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Pixel Defect Detection in LCD TV Images using Adaptive Thresholding**
SÜMER A., ÇELİK A., KÜÇÜKMANİSA A., TAŞYAPI ÇELEBİ A., URHAN O.
2019 27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, Turkey, 24 - 26 April 2019
- II. **Gömülü Platformlar İçin Kuşbakışı Görüntüler Üzerinden Derin Öğrenme Temelli Gerçek Zamanlı Şerit İşareti Tespit Sistemi**
Tarım G., KÜÇÜKMANİSA A., URHAN O.
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi, Turkey, 26 - 28 April 2019
- III. **LCD Piksel Hatalarının GLCM Öznitelikleri ve SVM ile Tespiti**
ÇELİK A., AYDIN S., KÜÇÜKMANİSA A., TAŞYAPI ÇELEBİ A., URHAN O.
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi-IMASCON 2018, 23 - 25 November 2018
- IV. **Real-Time Lane Marking Detection Using Weighted Filter**
KÜÇÜKMANİSA A., AKBULUT O., URHAN O.
20th International Conference on Computer Sciences, Computational and ArtificialIntelligence, 30 - 31 August 2018
- V. **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
- VI. **HEVC'de Seyrek Arama Kullanarak Bir-Bit Dönüşümlü Hareket Kestiriminin Performans Analizi**
DUVAR R., KÜÇÜKMANİSA A., AKBULUT O., TAŞYAPI ÇELEBİ A., URHAN O.
26. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU'2018), 2 - 05 May 2018
- VII. **Deep Learning Based Road Crack Detection on an Embedded Platform**

- Altın N., KÜÇÜKMANİSA A., URHAN O.
20th International Conference on Computer Vision and Image Processing, 12 - 13 February 2018
- VIII. **Performance Analysis of One-Bit Transform based Motion Estimation using Sparse Search on HEVC**
DUVAR R., KÜÇÜKMANİSA A., AKBULUT O., TAŞYAPI ÇELEBİ A., URHAN O.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- IX. **Implementation of 1-bit transform based motion estimation to HEVC encoder**
DUVAR R., KÜÇÜKMANİSA A., AKBULUT O., TAŞYAPI ÇELEBİ A., URHAN O.
2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, Turkey, 15 - 18 May 2017
- X. **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
- XI. **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
- XII. **Implementation of 1-Bit Transform Based Motion Estimation to HEVC Encoder**
Duvar R., KÜÇÜKMANİSA A., OrhanAkbulut O., CELEBI A. T. , URHAN O.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XIII. **Real-Time Lane Marking Detection using Modified 1-Bit Transform based Pre-processing**
KÜÇÜKMANİSA A., DUVAR R., URHAN O.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XIV. **Multi Band Pass Filter based One-Bit Transforms in Motion Estimation**
AKBULUT O., Duvar R., KÜÇÜKMANİSA A., URHAN O.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XV. **Histogram Distance Based Road Surface Detection on a Single Image**
KÜÇÜKMANİSA A., URHAN O.
7th European Conference of Computer Science (ECCS '16), 21 - 23 October 2016
- XVI. **Tek Bir Görüntü ile Şerit Tespit Temelli Yol Yüzeyi Belirleme**
KÜÇÜKMANİSA A., URHAN O.
24. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU'2016), 16 - 19 May 2016
- XVII. **Road Surface Detection on a Single Image using Lane Detection**
KÜÇÜKMANİSA A., Urhban O.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.2153-2156
- XVIII. **An uncooled infrared camera with embedded real-time target tracking capability Gerçek zamanlı gömülü hedef takibi yapabilen soğutmasız kızıl ötesi kamera**
Güvenel Ç., Tekyildiz A., Türkoğlu Ç., Yıldız Ç., KÜÇÜKMANİSA A., ÇELEBİ A., URHAN O., GÜLLÜ M. K. , ERTÜRK S.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Muğla, Turkey, 18 - 20 April 2012
- XIX. **DSP implementation of phase correlation based real-time video stabilization Faz korelasyonu temelli gerçek-zamanlı video stabilizasyonunun DSP üzerinde gerçekleşmesi**
KÜÇÜKMANİSA A., URHAN O., GÜLLÜ M. K. , ERTÜRK S.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Muğla, Turkey, 18 - 20 April 2012

Citations

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