

Asst. Prof. BURCU KIR SAVAŞ

Personal Information

Email: burcu.kir@kocaeli.edu.tr

Web: <https://avesis.kocaeli.edu.tr/burcu.kir>

International Researcher IDs

ORCID: 0000-0003-1005-9332

Yoksis Researcher ID: 24891

Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey 2013 - 2021

Postgraduate, Sakarya University, Institute Of Science, Bilgisayar Ve Bilişim Mühendisliği (YI) (Tezli), Turkey 2009 - 2012

Undergraduate Double Major, Dumlupınar Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2006 - 2010

Undergraduate, Dumlupınar Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2005 - 2009

Dissertations

Postgraduate, Negatif bağlantılı öğrenme algoritmali yapay sinir ağları ile mobil cihazlarda optik karakter tanıma uygulaması, Sakarya Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Ve Bilişim Mühendisliği (YI) (Tezli), 2012

Research Areas

algorithms, Computer Vision, Equipment, Artificial Intelligence, Computer Learning and Pattern Recognition, Pattern Recognition and Image Processing, Software

Academic Titles / Tasks

Research Assistant PhD, Kocaeli University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2010 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Behavior-based driver fatigue detection system with deep belief network**
Kır Savaş B., Becerikli Y.
NEURAL COMPUTING AND APPLICATIONS, vol.1, pp.14053-14065, 2022 (SCI-Expanded)
- II. **Real Time Driver Fatigue Detection System Based on Multi-Task ConNN**
Savas B., BECERİKLİ Y.
IEEE ACCESS, vol.8, pp.12491-12498, 2020 (SCI-Expanded)
- III. **Local Binary Pattern Based Fast Digital Image Stabilization**
Kır B., Kurt M., Urhan O.
IEEE SIGNAL PROCESSING LETTERS, vol.22, no.3, pp.341-345, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Deep Learning Approach to Driver Fatigue Detection via Mouth State Analyses and Yawning Detection**
KIR SAVAŞ B., BECERİKLİ Y.
IOSR Journal of Computer Engineering (IOSR-JCE), vol.23, no.3, pp.24-30, 2021 (Peer-Reviewed Journal)
- II. **Video Görüntüleri Kullanılarak Sürücü Yorgunluğu Sezme Sistemi Geliştirilmesi (Development of Driver Fatigue Detection System By Using Video Images)**
KIR SAVAŞ B., BECERİKLİ Y.
Journal of Intelligent Systems with Applications, vol.2, no.1, pp.26-29, 2019 (Peer-Reviewed Journal)
- III. **Gölge Tespitinde Kullanılan Bayes Sınıflandırma, Otsu Bölütleme ve Histogram Dağılımı Yöntemlerinin Karşılaştırılması**
KIR SAVAŞ B., İLKİN S., Hangişi F. S., ŞAHİN S.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.5, pp.345-355, 2017 (Peer-Reviewed Journal)
- IV. **Smart Devices Contribution to the Development of Virtual Museology in Turkey**
KIR SAVAŞ B., DUMAN O., ŞAHİN S.
International Journal of Computer Applications, vol.141, pp.21-24, 2016 (Peer-Reviewed Journal)
- V. **JENERİK CORDIC ALGORİTMASININ FPGA'DA DONANIMSAL GERÇEKLENMESİ**
ŞAHİN S., KIR SAVAŞ B.
SAÜ Fen Bilimleri Enstitüsü Dergisi, vol.20, pp.16-25, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Proceedings of Seventh International Congress on Information and Communication Technology**
KIR SAVAŞ B.
in: Lecture Notes in Networks and Systems, , Editor, Springer Singapore, London, pp.794-804, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Multi-Speaker Recognition Using Convolutional Neural Networks (ConNNs)**
Abuzarlı E., BECERİKLİ Y., AKDENİZ F., KIR SAVAŞ B.
6TH INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS (6. Uluslararası Karadeniz Modern Bilimsel Araştırmalar Kongresi), 23-25 August 2024, Trabzon Türkiye, Trabzon, Turkey, 23 - 25 August 2024, pp.518-530
- II. **Driver Fatigue Detection via Eye State Analyses Based on Deep Learning Approach**
Kır Savaş B., Becerikli Y.
7th International Conference on Smart City Applications, SCA 2022, Castelo Branco, Portugal, 19 - 21 October 2022, vol.629 LNNS, pp.452-462
- III. **Fruit Recognition and Classification with Deep Learning Support on Embedded System (fruitnet)**
Unal H. B., Vural E., Savas B., BECERİKLİ Y.
2020 Innovations in Intelligent Systems and Applications Conference, ASYU 2020, İstanbul, Turkey, 15 - 17 October 2020
- IV. **Real Time Driver Fatigue Detection Based on SVM Algorithm**
KIR SAVAŞ B., BECERİKLİ Y.
6th International Conference on Control Engineering Information Technology, İstanbul, Turkey, 25 - 27 October 2018, pp.851-854
- V. **Video Görüntüleri Kullanılarak Sürücü Yorgunluğu Sezme Sistemi Geliştirilmesi**
KIR SAVAŞ B., BECERİKLİ Y.
Akıllı Sistemlerde Yenilikler ve Uygulamalar (ASYU) Konferansı, Antalya, Turkey, 5 - 07 October 2017

- VI. **DESIGN AND IMPLEMENTATION OF A CONTENT DELIVERY ARCHITECTURE FOR MUSEUMS**
ÖZCAN H., güven t., ALTUNCU M. A., KIR SAVAŞ B., ŞAHİN S., duman o.
International Conference on Research in Education and science, 19 - 21 May 2017
- VII. **A Smart Tracking Systems for Museums**
ÖZCAN H., güven t., ALTUNCU M. A., KIR SAVAŞ B., Duman O., ŞAHİN S.
6th World Conferance on Innovation and Computer Science, 12 - 14 May 2016
- VIII. **The Realization of Face Detection and Fullness Detection in Medium by Using Haar Cascade Classifiers**
Savas B., İlkin S., Becerikli Y.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.2217-2220
- IX. **LSB based steganography over video files using Koblitz s Method**
KURT PEHLİVANOĞLU M., KIR SAVAŞ B., DURU N.
2015 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, Turkey, 16 - 19 May 2015, pp.1034-1037
- X. **The Application of Optical Character Recognition for Mobile Device via Artificial Neural Networks with Negative Correlation Learning Algorithm**
Kir B., Oz C., Gulbag A.
10th International Conference on Electronics, Computer and Computation (ICECCO), Ankara, Turkey, 7 - 09 November 2013, pp.220-223
- XI. **FPGA Based Implementation of CORDIC using different number format**
Kir B., Altuncu M. A., ŞAHİN S.
International Conference on Technological Advances in Electrical, Electronics and Computer Engineering (TAECE), Konya, Turkey, 9 - 11 May 2013, pp.444-448
- XII. **Leaf recognition using K NN classification algorithm**
KIR SAVAŞ B., ÖZ C., GÜLBAĞ A.
2012 20th Signal Processing and Communications Applications Conference (SIU), Mugla, Turkey, Turkey, 18 - 20 April 2012
- XIII. **Yapay Sinir Aglarında Negative Correlation Learning Metodu Kullanarak Optik Karakter Tanıma**
KIR SAVAŞ B., ÖZ C., GÜLBAĞ A.
Elektrik-Elektronik Bilgisayar Sempozyumu, Turkey, 5 - 07 October 2011
- XIV. **Swot Analysing For Cloud Computing**
KIR SAVAŞ B., YURTAY N., YURTAY Y., SERTTAŞ S.
7th International Symposium on Intelligent and Manufacturing Systems, 10 - 12 September 2010

Supported Projects

BECERİKLİ Y., KUL S., SAYAR A., KIR SAVAŞ B., MADADUM H., AKDENİZ F., Project Supported by Higher Education Institutions, Otonom Araçlarda Nesne ve Ses Tanıma/Takip etme, 2021 - 2022

BECERİKLİ Y., AKDENİZ F., SAYAR A., KIR SAVAŞ B., KUL S., MADADUM H., Project Supported by Higher Education Institutions, 2019-GÖRÜNTÜ İŞLEME VE BİLGİSAYAR GÖRMESİ ARGE LABORATUVARI, 2019 - 2020

Becerikli Y., Kır Savaş B., Project Supported by Higher Education Institutions, Sürücü Yorgunluğu Sezme Sistemi, 2017 - 2018

BECERİKLİ Y., KIR SAVAŞ B., Project Supported by Higher Education Institutions, SÜRÜCÜ YORGUNLUĞU SEZME SİSTEMİ GELİŞTİRİLMESİ, 2017 - 2018

Kır Savaş B., TUBITAK Project, Gömülü Sistem Üzerinde Gerçek Zamanlı Video İşleme Ve Görüntü Analizi Yapılarak Yüz Takip Ve Analizinin Gerçekleştirilmesi, 2017 - 2018

Şahin S., TUBITAK Project, Matas (Müzeler İçin Akıllı Takip Sistemi), 2014 - 2016

Metrics

Publication: 23

Citation (WoS): 61

Citation (Scopus): 156

H-Index (WoS): 4

H-Index (Scopus): 6