

## Asst. Prof. BURCU KIR SAVAŞ

### Personal Information

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### International Researcher IDs

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### 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. **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
- II. **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
- III. **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
- IV. **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
- V. **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
- VI. **A Smart Tracking Systems for Museums**  
ÖZCAN H., güven t., ALTUNCU M. A., KIR SAVAŞ B., Duman O., ŞAHİN S.

6th World Conference on Innovation and Computer Science, 12 - 14 May 2016

**VII. 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

**VIII. 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

**IX. 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

**X. 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

**XI. 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

**XII. Yapay Sinir Ağlarında Negative Correlation Learning Metodu Kullanarak Optik Karakter Tanıma**

KIR SAVAŞ B., ÖZ C., GÜLBAĞ A.

Elektrik-Elektronik Bilgisayar Sempozyumu, Turkey, 5 - 07 October 2011

**XIII. 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: 22

Citation (WoS): 61

Citation (Scopus): 155

H-Index (WoS): 4

H-Index (Scopus): 6