Prof. OĞUZHAN URHAN

Personal Information

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International Researcher IDs
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Biography

Oguzhan Urhan received his BSc, MSc, and PhD degrees in Electronics and Telecommunications Engineering from the University of Kocaeli, Kocaeli, Turkey, in 2001, 2003, and 2006, respectively. He worked as a research assistant at the same department during his graduate-level education. He took part in the establishment of Kocaeli University laboratory of image and signal processing and worked there until 2013.

In 2006-2007, he worked as a visiting professor at Chung-Ang University in Seoul, South Korea. He gave a graduate-level lecture on imaging systems and carried out joint research with the Korean research team. He started to work as an assistant professor at University of Kocaeli in 2007 where he was promoted to associate professorship in 2009 and full professorship in 2015.

In this process, he was involved in many research projects supported by different institutions such as TUBITAK (The Scientific and Technological Research Council of Turkey), DPT (State Planning Organization), Ministry of Science, Industry and Technology, KOSGEB (Small and Medium Enterprises Development Organization) as principal investigator, advisor, and researcher. As the output of these projects, he has more than 150 scientific publications including 30+ SCI/SCI-E journal papers in signal/image processing and embedded systems. These publications received more than 500 citations according to ISI Web of Science and 1100+ citations according to Google Scholar. He is a senior member of IEEE. He served as associate editor for Turkish Journal of Electrical Engineering and Computer Sciences between 2017 to 2021 and IEEE Access between 2021 to 2023.

In addition to his academic studies, Oğuzhan Urhan also held many administrative positions. These include commission memberships at faculty and university levels, department vice chair, department chair, and faculty board membership. He served as the dean of Kocaeli University Faculty of Aeronautics and Astronautics between 2019-2023 and as the general manager of Kocaeli University Science Park between 2020-2023.

In 2008, he took part in the establishment of Pars Ar-Ge Info. Tech. Ltd. which is one of the first spin-off from the University of Kocaeli. He acted as CTO and supervised many projects until 2013 when he left the company. During this process, he designed the first Digital Tachograph System in Turkey which includes vehicle unit (VU), motion sensor (MS), calibration device, download key, remote download device, and software upgrade device, starting from scratch. He also supervised the VU's Common Criteria EAL 4+ level security evaluation process.

In 2013, he established a new research laboratory that focuses on embedded and vision systems: KULE (Kocaeli University Laboratory of Embedded and Vision Systems). This laboratory aims to fill an important gap in its research

area by developing innovative R&D projects. Oguzhan Urhan is the founder and CEO of the EVSTEK Information Technologies where he leads the design and development of embedded and vision products and AI based systems.

Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, Turkey 2003 - 2006

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, Turkey 2001 - 2003

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, Turkey 1997 - 2001

Foreign Languages

German, A2 Elementary
English, C1 Advanced

Dissertations

Doctorate, Segmentation and flicker restoration for archive films, Kocaeli University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, 2006

Postgraduate, Object segmentation for video, Kocaeli University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, 2003

Research Areas

Information Systems, Communication and Control Engineering, Signal Processing, Image and Video Processing, Pattern Recognition and Analysis, Computer Sciences, Equipment, Microprogramming and Control Structure, Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2015 - Continues
Associate Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2009 - 2015
Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2007 - 2009
Assistant Professor, Chung-Ang University, School of Electrical and Electronics Engineering, 2006 - 2007
Research Assistant, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2001 - 2007

Academic and Administrative Experience

Kocaeli Üniversitesi, Kalite Komisyonu, 2019 - Continues
Dean, Kocaeli University, Havacılık ve Uzay Bilimleri Fakültesi, 2019 - 2023
Rectorate Commissioner, Kocaeli University, 2019 - 2023
Coordinator of The Rectorate, Kocaeli University, REKTÖRLÜK, 2019 - 2022
Fakülte Yönetim Kurulu Üyesi, Kocaeli University, Mühendislik Fakültesi, 2018 - 2019
Kocaeli Üniversitesi, Akademik Teşvik Düzenleme, Denetleme Ve İtiraz Komisyonu (Mühendislik Alanı), 2017 - 2019
Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2015 - 2018

Kocaeli Üniversitesi, Eğitimde Yeniden Yapılanma Ve Kalite (Eyyk) Süreci Komisyonu, 2015 - 2018

Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2007 - 2018

Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2009 - 2013

Courses

Microprocessors, Undergraduate, 2018 - 2019

Deep Learning, Postgraduate, 2019 - 2020

Gömülü Sistemler, Postgraduate, 2018 - 2019

Image Processing, Undergraduate, 2017 - 2018

Advising Theses

Urhan O., Detection and classification of anomalies in the splice adding processes with a hybrid learning approach, Postgraduate, E.BAYTÜRK(Student), 2023

Urhan O., Brand and size detection of vehicle tires with deep learning, Postgraduate, V.ÖZDEMİR(Student), 2022

Urhan O., Güllü M. K., Fusion of shallow and deep features in deep learning-based medical image analysis, Doctorate, C.ÖKSÜZ(Student), 2022

Urhan O., Deep learning based drivable area detection and its embedded application, Postgraduate, O.ACUN(Student), 2021

Urhan O., GÖMÜLÜ PLATFORMLAR İÇİN KUŞBAKIŞI GÖRÜNTÜLER ÜZERİNDEN DERİN ÖĞRENME TEMELLİ GERÇEK ZAMANLI ŞERİT TESPİT SİSTEMİ, Postgraduate, G.TARIM(Student), 2019

Urhan O., Bluetooth 4.2 ve bluetooth 5'in mesh topolojisi ile uygulaması ve karşılaştırılması, Postgraduate, A.ERGÜN(Student), 2019

Urhan O., Girdap akımları temelli bir hata tespiti yaklaşımının gerçek zamanlı gerçeklenmesi, Postgraduate, M.ÇELİKADAM(Student), 2019

Urhan O., LCD piksel hatalarının makine öğrenmesi yöntemleri ile tespiti, Postgraduate, A.ÇELİK(Student), 2019

Urhan O., Nesnelerin interneti temelli uygulamalarda kullanılabilecek düşük güçlü kablosuz haberleşme protokollerinin karşılaştırılması, Postgraduate, Y.YAŞAR(Student), 2019

Urhan O., A deep learning based real-time object detection implementation in a virtual instrument cluster, Postgraduate, A.MAGDY(Student), 2019

Urhan O., HEVC için Hızlı Hareket Kestirimi ve Mod Seçimi Yaklaşımları, Doctorate, R.DUVAR(Student), 2019

Urhan O., Gömülü Platformlar için Görüntü İşleme Temelli Gerçek Zamanlı Şerit Tespit ve Uyarı Yöntemleri, Doctorate, A.KÜÇÜKMANİSA(Student), 2018

Urhan O., Nesnelerin interneti tabanlı bebek uyku takip sistemi tasarımı ve gerçeklenmesi, Postgraduate, E.ERKEN(Student), 2018

Urhan O., Nesnelerin interneti için güvenli ağ geçidi tasarımı, Postgraduate, S.DİVARCI(Student), 2018

Urhan O., An analysis of bluetooth 5 protocol in comparison to the preceding bluetooth versions, Postgraduate, C.ANDREW(Student), 2018

Urhan O., Bütünsel hareket kestiriminin ikili görüntüler üzerinden tek komut çoklu veri altyapısı ile gerçeklenmesi, Postgraduate, B.TURGUT(Student), 2015

Urhan O., Kablosuz algılayıcı ağı ve KNX entegrasyonu ile ev otomasyonu, Postgraduate, A.BURAK(Student), 2015

Urhan O., Sualtı sistemleri için gömülü elektronik ciroskop pusula, Postgraduate, B.GÜRKAN(Student), 2014

Urhan O., Araç lastiği sırt profilinin bilgisayarda görü yaklaşımı ile kalite kontrolü, Postgraduate, R.DUVAR(Student), 2012

Urhan O., DSP ile gerçek zamanlı sayısal video stabilizasyonu, Postgraduate, A.KÜÇÜKMANİSA(Student), 2012

Urhan O., İvme sensör tabanlı laboratuvar acil destek uyarı sistemi, Postgraduate, B.SEZER(Student), 2011

Urhan O., FPGA kontrollü metal algılayıcısı tasarımı ve gerçeklemesi, Postgraduate, M.DAĞ(Student), 2011

Urhan O., Plastik cerrahi ameliyatlarında 3-B planlama için bir sistem; cyclops 3-D scanner, Postgraduate,

E.ÖZÜAĞ(Student), 2010

Urhan O., Bir tren eğitim simülatörünün CAN protokolü kullanarak gerçeklenmesi, Postgraduate, F.YARDIM(Student), 2010

Urhan O., Çoklu tanımlamalı kodlanmış imge ve videoların en uygun süzgeçlenmesi, Postgraduate, Ç.ATEŞ(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

I. **An integrated convolutional neural network with attention guidance for improved performance of medical image classification**
Öksüz C., URHAN O., Güllü M. K.
Neural Computing and Applications, vol.36, no.4, pp.2067-2099, 2024 (SCI-Expanded)

II. **Feature distillation from vision-language model for semisupervised action classification**
Çelik A., Küçükmanisa A., Urhan O.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.31, no.SI-1, pp.1129-1145, 2023 (SCI-Expanded)

III. **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)

IV. **D3NET (divide and detect drivable area net): deep learning based drivable area detection and its embedded application**
Acun O., KÜÇÜKMANİSA A., Genç Y., URHAN O.
Journal of Real-Time Image Processing, vol.20, no.2, 2023 (SCI-Expanded)

V. **Hyperspectral and multispectral image fusion based on spectral decomposition and neighborhood pixel relation Spektral ayrıştırma ve komşu piksel ilişkisi temelli hiperspektral ve multispektral görüntülerin kaynaştırılması**
Çeşmeci D., URHAN O., Güllü M. K.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.4, pp.2385-2396, 2023 (SCI-Expanded)

VI. **COVID-19 detection with severity level analysis using the deep features, and wrapper-based selection of ranked features**
Öksüz C., URHAN O., Güllü M. K.
Concurrency and Computation: Practice and Experience, vol.34, no.20, 2022 (SCI-Expanded)

VII. **A real-time defective pixel detection system for LCDs using deep learning based object detectors**
ÇELİK A., KÜÇÜKMANİSA A., Sumer A., Celebi A., URHAN O.
JOURNAL OF INTELLIGENT MANUFACTURING, vol.33, no.4, pp.985-994, 2022 (SCI-Expanded)

VIII. **Hair diameter measurements for planning follicular unit extraction surgery (FUE): Is there a correlation between the micrometer caliper and scanning electron microscopy (SEM) findings?**
Bayramoglu A., Erdogan K., Urhan O., Keskinoz E. N., Acikel Elmas M., Hayran M., Arbak S.
Journal of cosmetic dermatology, vol.21, no.3, pp.1086-1092, 2022 (SCI-Expanded)

IX. **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)

X. **Brain tumor classification using the fused features extracted from expanded tumor region**
Öksüz C., URHAN O., Güllü M. K.
Biomedical Signal Processing and Control, vol.72, 2022 (SCI-Expanded)

XI. **Superpixel based compression of hyperspectral image with modified dictionary and sparse representation**
Ertem A., Karaca A. C., URHAN O., GÜLLÜ M. K.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.41, no.16, pp.6307-6324, 2020 (SCI-Expanded)

XII. **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)

XIII. 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 (SCI-Expanded)

XIV. 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)

XV. 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 (SCI-Expanded)

XVI. 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)

XVII. Selective Gray-Coded Bit-Plane-Based Two-Bit Transform and Its Efficient Hardware Architecture for Low-Complexity Motion Estimation
CELEBI A., YAVUZ S., ÇELEBİ A., URHAN O.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.64, no.3, pp.259-266, 2018 (SCI-Expanded)

XVIII. 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)

XIX. One-Dimensional Filtering Based Two-Bit Transform and Its Efficient Hardware Architecture for Fast Motion Estimation
CELEBI A., YAVUZ S., ÇELEBİ A., URHAN O.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.63, no.4, pp.377-385, 2017 (SCI-Expanded)

XX. 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 (SCI-Expanded)

XXI. Hierarchical Order Statistics Filtering for Fast Bi-Dimensional Empirical Mode Decomposition
Semiz S., ÇELEBİ A., URHAN O.
ETRI JOURNAL, vol.38, no.4, pp.695-702, 2016 (SCI-Expanded)

XXII. Selective Gray-Coded Bit-Plane Based Low-Complexity Motion Estimation and its Hardware Architecture
YAVUZ S., ÇELEBİ A., ASLAM M., URHAN O.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.62, no.1, pp.76-84, 2016 (SCI-Expanded)

XXIII. Wireless sensor network-based extension to KNX home automation system
GOKBAYRAK A. B., KILIVAN S., AKIN S., ÇELEBİ A., URHAN O.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.5, pp.3652-3663, 2016 (SCI-Expanded)

XXIV. Local Binary Pattern Based Fast Digital Image Stabilization
Kir B., Kurt M., Urhan O.
IEEE SIGNAL PROCESSING LETTERS, vol.22, no.3, pp.341-345, 2015 (SCI-Expanded)

XXV. 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)

XXVI. Truncated gray coding-based fast block motion estimation

Urhan O.

JOURNAL OF ELECTRONIC IMAGING, vol.22, no.2, 2013 (SCI-Expanded)

XXVII. **Constrained One-Bit Transform Based Fast Block Motion Estimation using Adaptive Search Range**

Urhan O.

IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.56, no.3, pp.1868-1871, 2010 (SCI-Expanded)

XXVIII. **Optimal filtering of polyphase-downsampling-based multiple description coded video**

Ates C., URHAN O., ERTÜRK S.

JOURNAL OF ELECTRONIC IMAGING, vol.18, no.4, 2009 (SCI-Expanded)

XXIX. **Truncated Gray-Coded Bit-Plane Matching Based Motion Estimation and its Hardware Architecture**

ÇELEBİ A., AKBULUT O., URHAN O., Ertuerk S.

IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.55, no.3, pp.1530-1536, 2009 (SCI-Expanded)

XXX. **Efficient Hardware Implementations of Low Bit Depth Motion Estimation Algorithms**

ÇELEBİ A., URHAN O., Hamzaoglu I., ERTÜRK S.

IEEE SIGNAL PROCESSING LETTERS, vol.16, no.6, pp.513-516, 2009 (SCI-Expanded)

XXXI. **An All Binary Sub-Pixel Motion Estimation Approach and its Hardware Architecture**

ÇELEBİ A., AKBULUT O., URHAN O., Hamzaoglu I., ERTUERK S.

IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.54, no.4, pp.1928-1937, 2008 (SCI-Expanded)

XXXII. **One-dimensional processing for efficient optimal post-process/in-loop filtering in video coding**

AKBULUT O., URHAN O., ERTÜRK S., CHANG T.

IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.54, no.3, pp.1346-1354, 2008 (SCI-Expanded)

XXXIII. **Downsampling-based multiple description image coding using optimal filtering**

YAPICI Y., DEMIR B., ERTUERK S., URHAN O.

JOURNAL OF ELECTRONIC IMAGING, vol.17, no.3, 2008 (SCI-Expanded)

XXXIV. **Parameter embedding mode and optimal post-process filtering for improved WDCT image compression**

URHAN O., ERTUERK S.

IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.18, no.4, pp.528-532, 2008 (SCI-Expanded)

XXXV. **Improved block motion estimation using block frequency warping**

AKBULUT O., URHAN O., ERTUERK S.

IEEE SIGNAL PROCESSING LETTERS, vol.15, pp.143-145, 2008 (SCI-Expanded)

XXXVI. **Blotch detection and removal for archive film restoration**

GÜLLÜ M. K., URHAN O., ERTÜRK S.

AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.62, no.7, pp.534-543, 2008 (SCI-Expanded)

XXXVII. **Optimal Post-Process/In-Loop filtering for improved video compression performance**

KIM D., OH H., URHAN O., ERTÜRK S., CHANG T.

IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.53, no.4, pp.1687-1693, 2007 (SCI-Expanded)

XXXVIII. **Modified constrained one-bit transform based fast block motion estimation**

OH H., KIM D., Urhan O., CHANG T.

IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.53, no.3, pp.1093-1097, 2007 (SCI-Expanded)

XXXIX. **Post-filtering of DCT coded images using fuzzy blockiness detector and linear interpolation**

KIM H., Urhan O., CHANG T.

IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.53, no.3, pp.1125-1129, 2007 (SCI-Expanded)

XL. **Constrained one-bit transform-based motion estimation using predictive hexagonal pattern**

Urhan O.

JOURNAL OF ELECTRONIC IMAGING, vol.16, no.3, 2007 (SCI-Expanded)

XLI. **Constrained one-bit transform for low complexity block motion estimation**

Urhan O., Ertuerk S.

IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.17, no.4, pp.478-482, 2007 (SCI-Expanded)

XLII.   **Optimization of Nd:YAG Laser Welding of Magnesium**
DEMİR A., AKMAN E., CANEL T., Ertuerk S., KAYA A. A., Kenar N., SINMAZÇELİK T., URHAN O.
JOURNAL OF LASER MICRO NANOENGINEERING, vol.2, no.1, pp.108-113, 2007 (SCI-Expanded)

XLIII. **Shot-cut detection for B&W archive films using best-fitting kernel**
Urhan O., Gullu M. K., Erturk S.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.61, no.7, pp.463-468, 2007 (SCI-Expanded)

XLIV.   **Single sub-image matching based low complexity motion estimation for digital image stabilization using constrained one-bit transform**
Urhan O., Erturk S.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.52, no.4, pp.1275-1279, 2006 (SCI-Expanded)

XLV.   **A computer vision-based fast approach to drilling tool condition monitoring**
ATLI A. V., Urhan O., ERTUERK S., SOENMEZ M.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING MANUFACTURE, vol.220, no.9, pp.1409-1415, 2006 (SCI-Expanded)

XLVI.   **Modified phase-correlation based robust hard-cut detection with application to archive film**
Urhan O., Gullu M. K., Erturk S.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.16, no.6, pp.753-770, 2006 (SCI-Expanded)

XLVII. **Blotch detection and removal for archive video restoration**
Gullu M. K., Urhan O., Erturk S.
COMPUTER AND INFORMATION SCIENCES - ISCIS 2005, PROCEEDINGS, vol.3733, pp.739-747, 2005 (SCI-Expanded)

Articles Published in Other Journals

I.   **Drowsiness Detection System Based on Machine Learning Using Eye State**
Öztürk M., Küçükmanisa A., Urhan O.
Balkan Journal of Electrical and Computer Engineering, vol.10, no.3, pp.258-263, 2022 (Peer-Reviewed Journal)

II.   **A Two-Headed Deep Learning Framework for Predicting Severity of COVID-19 Disease**
Öksüz C., Urhan O., Güllü M. K.
Artificial Intelligence Theory and Applications, vol.1, no.3, pp.19-28, 2021 (Peer-Reviewed Journal)

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

IV.   **Efficientnet-B0 Based Single Stage and Multi-Scale Object Detection Model for Localization of Low-Grade Gliomas and Detection of 1p/19q Codeletion Status**
Öksüz C., Urhan O., Güllü M. K.
Artificial Intelligence Theory and Application, vol.1, no.2, pp.191-201, 2021 (Peer-Reviewed Journal)

V.   **Compression of hyperspectral images using automatic adaptive luminance transform and 3D-DCT method**
CAN E., KARACA A. C., URHAN O., GÜLLÜ M. K.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.5, pp.868-883, 2020 (ESCI)

VI.   **Real-Time Lane Marking Detection Using Weighted Filter**
KÜÇÜKMANİSA A., AKBULUT O., URHAN O.
International Journal of Computer and Information Engineering, 2018 (Peer-Reviewed Journal)

VII.   **Hardware Implementation of Local Binary Pattern Based Two-Bit Transform Motion Estimation**
Yavuz S., ÇELEBİ A., TAŞYAPI ÇELEBİ A., URHAN O.
International Journal of Electrical and Computer Engineering, 2018 (Scopus)

VIII. **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 (Peer-Reviewed Journal)

IX. **Extended Constraint Mask based One-Bit Transform for Low-Complexity Fast Motion Estimation**
URHAN O.
International Journal of Electrical and Computer Engineering, 2018 (Scopus)

X. **Integral image based binarization for low-complexity motion estimation**
TAŞYAPI ÇELEBİ A., URHAN O.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.5, pp.850-856, 2018 (ESCI)

XI. **Görüntü İşleme ile TFT/LCD Panellerde Kalite Kontrolü**
Taşyapı Çelebi A., Akbulut O., Ertürk A., Urhan O., Güllü M. K., Ertürk S.
Otomasyon, vol.243, 2012 (Non Peer-Reviewed Journal)

Books & Book Chapters

I. **C Dili ile PIC Uygulamaları**
Zengin F., Şanlı M., URHAN O., GÜLLÜ M. K.
Birsen Yayınevi, İstanbul, 2006

II. **Video Segmentation with Block Based Change Detection Using Numerous Preceding Image Frames**
URHAN O., ERTÜRK S.
in: New Trends in Computer Networks, Advances in Computer Science and Engineering, Tuğcu A., Gelenbe E., Çağlayan MU., Alagöz F., Editor, Imperial College Press , London, pp.264-273, 2005

III. **Her Yönüyle PIC16F628**
URHAN O., GÜLLÜ M. K.
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Entrepreneurship Activities

Limited, EVSTEK Bilişim Tekn. Müh. Hiz. Ltd. Şti, 06 December 2013, Co-Founder

Non Academic Experience

Kocaeli Üniversitesi Teknopark A.Ş.
EVSTEK Bilişim Teknolojileri Ltd.Şti.
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