

Asst. Prof. KASIM TAŞDEMİR

Personal Information

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International Researcher IDs

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Education Information

Doctorate, The Queen's University of Belfast, Mühendislik Fakültesi, Bilgisayar Bilimi, United Kingdom 2010 - 2015

Postgraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Elektrik Elektronik Müh., Turkey 2007 - 2009

Foreign Languages

English, C1 Advanced

Research Areas

Computer Sciences, Computer Vision, Computer Vision, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Abdullah Gul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2016 - Continues

Courses

İşletim Sistemleri, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Camera-based wildfire smoke detection for foggy environments**
Tas M., Tas Y., Balki O., AYDIN Z., TAŞDEMİR K.
JOURNAL OF ELECTRONIC IMAGING, vol.31, no.5, 2022 (SCI-Expanded)
- II. **Deep learning based semantic segmentation and quantification for MRD biochip images**
ÇELEBİ F., TAŞDEMİR K., İÇÖZ K.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.77, 2022 (SCI-Expanded)
- III. **BLSTM based night-time wildfire detection from video**
Agirman A. K., TAŞDEMİR K.
PLOS ONE, vol.17, no.6, 2022 (SCI-Expanded)
- IV. **A review of mammographic region of interest classification**

Yengec Tasdemir S. B., TAŞDEMİR K., AYDIN Z.

WILEY INTERDISCIPLINARY REVIEWS-DATA MINING AND KNOWLEDGE DISCOVERY, vol.10, no.5, 2020 (SCI-Expanded)

- V. **Image-analysis based readout method for biochip: Automated quantification of immunomagnetic beads, micropads and patient leukemia cell**
Uslu F., İÇÖZ K., TAŞDEMİR K., DOĞAN R. S., YILMAZ B.
MICRON, vol.133, 2020 (SCI-Expanded)
- VI. **Mitigation of H.264 and H.265 Video Compression for Reliable PRNU Estimation**
Altinisik E., TAŞDEMİR K., SENCAR H. T.
IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol.15, pp.1557-1571, 2020 (SCI-Expanded)
- VII. **Automated quantification of immunomagnetic beads and leukemia cells from optical microscope images**
Uslu F., İÇÖZ K., TAŞDEMİR K., YILMAZ B.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.49, pp.473-482, 2019 (SCI-Expanded)
- VIII. **Energy efficient cosine similarity measures according to a convex cost function**
Akbas C. E., Günay O., Tasdemir K., Cetin A. E.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.11, no.2, pp.349-356, 2017 (SCI-Expanded)
- IX. **Spatio-Temporal Rich Model-Based Video Steganalysis on Cross Sections of Motion Vector Planes**
TAŞDEMİR K., KURUGOLLU F., SEZER S.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.25, no.7, pp.3316-3328, 2016 (SCI-Expanded)
- X. **Content-based video copy detection based on motion vectors estimated using a lower frame rate**
Tasdemir K., Cetin A. E.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.8, no.6, pp.1049-1057, 2014 (SCI-Expanded)
- XI. **Fire Detection in Video Using LMS Based Active Learning**
Gunay O., Tasdemir K., Toreyin B. U., Cetin A. E.
FIRE TECHNOLOGY, vol.46, no.3, pp.551-577, 2010 (SCI-Expanded)
- XII. **Video based wildfire detection at night**
Gunay O., Tasdemir K., Toreyin B. U., Cetin A. E.
FIRE SAFETY JOURNAL, vol.44, no.6, pp.860-868, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **TEXTURAL FEATURE BASED REGION OF INTEREST CLASSIFICATION USING ANN FROM MAMMOGRAMS**
YENGEÇ TAŞDEMİR S. B., Tasdemir K., Aydin Z.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.5, pp.133-141, 2020 (Peer-Reviewed Journal)
- II. **Volume fraction, thickness, and permeability of the sealing layer in microbial self-healing concrete containing biogranules**
ERŞAN Y. Ç., Palin D., Yengec Tasdemir S. B., TAŞDEMİR K., Jonkers H. M., BOON N., DE BELIE N.
Frontiers in Built Environment, vol.4, 2018 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Image-processing based signal readout method for MRD biochip MRD BiyoçIP İçin Görüntü İşleme Temelli Sinyal Elde Etme Metodu**
uslu F., İÇÖZ K., TAŞDEMİR K.
27th Signal Processing and Communications Applications Conference, SIU 2019, Sivas, Turkey, 24 - 26 April 2019
- II. **ROI Detection in Mammogram Images using Wavelet-Based Haralick and HOG Features**
Tasdemir S. B. Y., TAŞDEMİR K., AYDIN Z.

17th IEEE International Conference on Machine Learning and Applications (IEEE ICMLA), Florida, United States Of America, 17 - 20 December 2018, pp.105-109

- III. **EXTRACTING PRNU NOISE FROM H.264 CODED VIDEOS**
Altinisik E., TAŞDEMİR K., SENCAR H. T.
European Signal Processing Conference (EUSIPCO), Rome, Italy, 3 - 07 August 2018, pp.1367-1371
- IV. **Mixture of Learners for Cancer Stem Cell Detection Using CD13 and H&E Stained Images**
Oguz O., Akbas C. E., Mallah M., TAŞDEMİR K., Guzelcan E. A., MUENZENMAYER C., WITTENBERG T., ÜNER A., Cetin A. E., Atalay R. C.
Conference on Medical Imaging - Digital Pathology, California, United States Of America, 2 - 03 March 2016, vol.9791
- V. **Spatio-temporal rich model for motion vector steganalysis**
TAŞDEMİR K., Kurugöllü F., Sezer Ş.
2015 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), South Brisbane, Queensland, Australia, 19 - 24 April 2015
- VI. **A Steganalysis System Utilizing Temporal Pixel Correlation of HEVC Video**
Tasdemir K., KURUGOLLU F., SEZER S.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2446-2449
- VII. **Video steganalysis of LSB based motion vector steganography**
Tasdemir K., KURUGOLLU F., SEZER S.
2013 4th European Workshop on Visual Information Processing, EUVIP 2013, Paris, France, 10 - 12 June 2013, pp.260-264
- VIII. **Motion vector based features for content based video copy detection**
Taşdemir K., Çetin A. E.
2010 20th International Conference on Pattern Recognition, ICPR 2010, İstanbul, Turkey, 23 - 26 August 2010, pp.3134-3137
- IX. **Video based fire detection at night Videoda gece yangini tespiti**
Taşdemir K., Günay O., Töreyn B. U., Çetin A. E.
2009 IEEE 17th Signal Processing and Communications Applications Conference, SIU 2009, Antalya, Turkey, 9 - 11 April 2009, pp.720-723

Supported Projects

TAŞDEMİR K., TUBITAK Project, Videolardan Kamera Kimliği Belirlenmesi ve Büyük Video Veri Kümelerinde Kaynak Kamera Tespiti, 2016 - Continues

TAŞDEMİR K., Project Supported by Other Official Institutions, Video Kodçözücü Soyutlama Katmanı Kitaplığı ve Sayısal Video Kalite Ölçüm Yazılımı, 2015 - 2016

Scientific Refereeing

Signal, Image and Video Processing, SCI Journal, December 2016

Transactions on Information Security and Forensics, SCI Journal, October 2016

Journal of Electronic Imaging, SCI Journal, August 2016

Transactions on Information Security and Forensics, SCI Journal, July 2016

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, June 2016

Signal, Image and Video Processing, SCI Journal, February 2016

Metrics

Publication: 25

Citation (WoS): 114

Citation (Scopus): 151

H-Index (WoS): 5

H-Index (Scopus): 6