

Assoc. Prof. BAHADIR KARASULU

Personal Information

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Address: Çanakkale Onsekiz Mart Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Terzioğlu Kampüsü, 17020, Çanakkale.

Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2006 - 2010

Post Graduate, Maltepe University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2004 - 2006

Under Graduate, Kocaeli University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1998 - 2003

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Videolarda hareketli nesne tespiti ve takibi için benzetimli tavlama tabanlı bir başarımlı eniyileme yaklaşımı , Ege University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, 2010

Post Graduate, Paralel hesaplama tekniğinin monte carlo simülasyonunda uygulanması , Maltepe University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği/Bilgisayar Yazılımı, 2006

Research Areas

Information Systems, Communication and Control Engineering, Signal Processing, Multimedia, Computer Sciences, algorithms, Distributed Systems, Parallel Algorithms, Artificial Intelligence, Computer Learning and Pattern Recognition, Automated Problem Solving, Theorem Proving and Logical Reasoning, Pattern Recognition and Image Processing, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2015 - Continues

Assistant Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2011 - 2015

Research Assistant PhD, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2010 - 2011

Research Assistant, Ege University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, 2006 - 2010

Professional Experience

Head of Department, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2015 -

Continues

Deputy Head of Department, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2013 - 2016

Head of Department, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2012 - 2015

Courses

Dağıtık Sistemler, Under Graduate, 2013 - 2014

Çoklu Ortam Sistemlerinde Video ve Görüntü İşleme, Post Graduate, 2013 - 2014

Olasılık ve İstatistik, Under Graduate, 2013 - 2014

Proje II, Under Graduate, 2013 - 2014

Uzmanlık Alan Dersi, Post Graduate, 2012 - 2013, 2013 - 2014

Çoklu Ortam Sistemleri, Under Graduate, 2013 - 2014

Esnek Hesaplama Yöntemleri, Post Graduate, 2012 - 2013, 2013 - 2014

Yöneylem Araştırmalar ve Karar Analizleri, Under Graduate, 2011 - 2012, 2012 - 2013, 2013 - 2014

Proje I, Under Graduate, 2013 - 2014

Çoklu Ortam Sistemleri, Under Graduate, 2011 - 2012, 2012 - 2013

Proje II, Under Graduate, 2011 - 2012, 2012 - 2013

Proje I, Under Graduate, 2011 - 2012, 2012 - 2013

Seminer, Post Graduate, 2012 - 2013

Olasılık ve İstatistik, Under Graduate, 2011 - 2012

Dağıtık Sistemler, Under Graduate, 2011 - 2012

Jury Memberships

Post Graduate, SÜRÜ ZEKÂSI YAKLAŞIMI İLE PANORAMİK GÖRÜNTÜ OLUŞTURMA, Ege Üniversitesi Uluslararası Bilgisayar Enstitüsü, August, 2015

Post Graduate, SEAGENT Platformunu Kullanarak FIPA İletişim Dillerinden Biri Olan FIPA İngilizce Müzayede Etkileşim Protokolünün Gerçekleştirilmesi, Çanakkale Onsekiz Mart Üniversitesi, May, 2012

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

- I. **A novel dataset of human daily activities: Its benchmarking results for classification performance via using deep learning techniques**
Metin I. A., KARASULU B.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.2, pp.759-777, 2021 (Journal Indexed in SCI)
- II. **An Optimized Image Segmentation Approach Based on Boltzmann Machine**
KARASULU B.
APPLIED ARTIFICIAL INTELLIGENCE, vol.31, pp.792-807, 2017 (Journal Indexed in SCI)
- III. **An Automatic Optic Disk Detection and Segmentation System using Multi-level Thresholding**
Karasulu B.
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.14, no.2, pp.161-172, 2014 (Journal Indexed in SCI)
- IV. **An approach based on simulated annealing to optimize the performance of extraction of the flower region using mean-shift segmentation**
Karasulu B.
APPLIED SOFT COMPUTING, vol.13, no.12, pp.4763-4785, 2013 (Journal Indexed in SCI)

- V. **Moving object detection and tracking by using annealed background subtraction method in videos: Performance optimization**
Karasulu B., KORUKOĞLU M. S.
EXPERT SYSTEMS WITH APPLICATIONS, vol.39, no.1, pp.33-43, 2012 (Journal Indexed in SCI)
- VI. **A software for performance evaluation and comparison of people detection and tracking methods in video processing**
Karasulu B., KORUKOĞLU M. S.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.55, no.3, pp.677-723, 2011 (Journal Indexed in SCI)
- VII. **A simulated annealing-based optimal threshold determining method in edge-based segmentation of grayscale images**
Karasulu B., KORUKOĞLU M. S.
APPLIED SOFT COMPUTING, vol.11, no.2, pp.2246-2259, 2011 (Journal Indexed in SCI)
- VIII. **A REVIEW ON SEMANTIC VIDEO ANALYSIS USING MULTIMEDIA ONTOLOGIES**
Yüksek Y., KARASULU B.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.4, pp.719-739, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Çoklu Ortam Sistemleri İçin Siber Güvenlik Kapsamında Derin Öğrenme Kullanarak Ses Sahne ve Olaylarının Tespiti**
KARASULU B.
Acta INFOLOGICA, vol.3, no.2, pp.60-82, 2019 (Refereed Journals of Other Institutions)
- II. **İnsan Aktivitelerinin Sınıflandırılmasında Tekrarlayan Sinir Ağı Kullanarak Derin Öğrenme Tabanlı Yaklaşım**
METİN İ. A. , KARASULU B.
Veri Bilimi, vol.2, no.2, pp.1-10, 2019 (Refereed Journals of Other Institutions)
- III. **Benzetimli Tavlama Tekniğini Kullanan Eniyilenmiş Görüntü Ve Video İşleme Üzerine Kısa Bir Literatür Araştırması**
KARASULU B.
Electronic Journal of Vocational Colleges (EJOVOC), vol.8, no.2, pp.35-39, 2018 (Refereed Journals of Other Institutions)
- IV. **Kısıtlanmış Boltzmann Makinesi Ve Farklı Sınıflandırıcılarla Oluşturulan Sınıflandırma İş Hatlarının Başarımının Değerlendirilmesi**
KARASULU B.
International Journal of Informatics and Technologies (Gazi University), vol.11, pp.223-233, 2018 (International Refereed University Journal)
- V. **Görüntülerde İnsan Kulağı Tespit Ve Bölütlemesini Temel Alan Biyometrik Yetkilendirme Üzerine Bir İnceleme**
KARASULU B.
International Journal of Informatics and Technologies (Gazi University), vol.9, pp.97-112, 2016 (International Refereed University Journal)
- VI. **A Query Evaluation Approach using Opinions of Turkish Financial Market Professionals**
UĞURLU B., YENİSARI E., KARASULU B., Ayan O. Z.
TEM JOURNAL-TECHNOLOGY EDUCATION MANAGEMENT INFORMATICS, vol.4, no.3, pp.301-305, 2015 (Journal Indexed in ESCI)
- VII. **Esnek Hesaplama Sinirsel Bulanık Sinerjiyi Temel Alan Sistemler ve Yaklaşımlar Üzerine Bir İnceleme**
KARASULU B., Aki K.
Cumhuriyet University Science Journal, vol.35, no.2, pp.54-86, 2014 (International Refereed University Journal)

- VIII. **Videolardaki Hareketli Nesnelerin Tespit Ve Takibi İçin Uyarlanabilir Arkaplan Çıkarımı Yaklaşımı Tabanlı Bir Sistem**
KARASULU B.
Uludağ University Journal of The Faculty of Engineering and Architecture (JEA), vol.18, no.1, pp.93-110, 2013 (National Refreed University Journal)
- IX. **Bulanık Karar Verme Sistemlerinde Paralel Hesaplama**
KARASULU B., Ballı S.
Pamukkale University Journal of Engineering Sciences (PAJES), vol.19, no.2, pp.61-67, 2013 (National Refreed University Journal)
- X. **Automatic Extraction of Retinal Blood Vessels: A Software Implementation**
KARASULU B.
European Scientific Journal (European Scientific Institute), vol.8, no.30, pp.47-57, 2012 (Refereed Journals of Other Institutions)
- XI. **Image Segmentation Using Fuzzy Logic, Neural Networks and Genetic Algorithms: Survey and Trends**
KARASULU B., Ballı S.
Machine GRAPHICS & VISION - Institute of Computer Science of the Polish Academy of Sciences, vol.19, no.4, pp.367-409, 2010 (International Refereed University Journal)
- XII. **Review and Evaluation of Well-Known Methods for Moving Object Detection and Tracking in Videos**
KARASULU B.
Journal of Aeronautics and Space Technologies (HUTEN), vol.04, no.4, pp.11-22, 2010 (National Refreed University Journal)
- XIII. **Basketbolda Oyuncu Seçimi İçin Sinirsel-Bulanık Karar Destek Sistemi**
Ballı S., KARASULU B., Uğur A., Korukoğlu S.
İstanbul Teknik Üniversitesi Dergisi Seri D: Mühendislik, vol.08, no.1, pp.15-25, 2009 (National Refreed University Journal)
- XIV. **A Proposal for Building up A Social-Constructivism-Based Distance Learning System for Ege University**
KARASULU B., Önal A., Korukoğlu S.
BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.10, no.2, pp.33-52, 2008 (National Refreed University Journal)
- XV. **Kutup Dengeleme Problemi İçin Yüksek Başarımlı Bir Optimizasyon Tekniği**
KARASULU B., Ballı S., Korukoğlu S., Uğur A.
PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.14, no.2, pp.175-183, 2008 (National Refreed University Journal)
- XVI. **Monte Carlo simulation of ideal polymer chain using parallel computing technique**
KARASULU B., Uyaver Ş.
Moldavian Journal of the Physical Sciences, vol.06, pp.311-319, 2007 (International Refreed University Journal)
- XVII. **En Uygun Otomobil Seçimi Problemi İçin Bir Bulanık Promethee Yöntemi Uygulaması**
Ballı S., KARASULU B., Korukoğlu S.
Dokuz Eylül Üniversitesi İİBF Dergisi, vol.22, no.1, pp.139-147, 2007 (National Refreed University Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **The Moving Object Detection and Tracking in Panoramic Videos (Panoramik Videolarda Hareketli Nesne Tespiti Ve Takibi)**
KARASULU B.
The International Symposium of Scientific Research and Innovative Studies-Uluslararası Bilimsel Araştırmalar ve Yenilikçi Çalışmalar Sempozyumu (ISSRIS'21), Balıkesir, Turkey, 22 February 2021
- II. **An Approach based on the Active Contour and GrabCut Synergy Using Super Pixel Cluster Regions in Automatic Segmentation of the Human Ear**

KARASULU B.

Future Learning 2020: 8th International Conference on Future Learning and Informatics: Data Revolution (FL 2020), Muğla, Turkey, 20 October 2020

- III. **İnsan Aktivitelerinin Derin Öğrenme Kullanılarak Sınıflandırılması**
METİN İ. A. , KARASULU B.
2nd International Conference on Data Science and Applications (ICONDATA 2019), Balıkesir, Turkey, 3 - 06 October 2019, vol.0
- IV. **Tekrarlayan Sinir Ağı Modelleri Kullanılarak Yapılan Ses Sınıflandırma İçin Bir Başarım Kıyaslama Çalışması**
DELİBAŞ T., KARASULU B.
2nd International Conference on Data Science and Applications (ICONDATA 2019), Balıkesir, Turkey, 3 - 06 October 2019, vol.1, pp.33-40
- V. **The Semi-Automatic Approach to Extract the Features of Human Facial Region İnsan Yüz Bölgesi Özneliklerinin Elde Edilmesi İçin Yarı Otomatik Yaklaşım**
ÖZTOPUZ A., KARASULU B.
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara, Turkey, 11 - 13 October 2019
- VI. **Grafik İşlem Biriminde Büyük Veri İşlenmesi**
ÖZTOPUZ A., KARASULU B.
19. Akademik Bilişim Konferansı (AB 2017), Aksaray, Turkey, 8 - 10 February 2017, vol.0, pp.159-165
- VII. **Ultrasonik Siber Saldırıların Derin Öğrenme Teknikleri Kullanılarak Önlenmesi Üzerine Bir İnceleme**
DELİBAŞ T., KARASULU B.
International Eurasian Conference on Science Engineering and Technology (EurasianSciEnTech2018), Ankara, Turkey, 22 - 23 November 2018, vol.1, pp.2192-2200
- VIII. **Benzetimli Tavlama Tekniğini Kullanan Eniyilenmiş Görüntü Ve Video İşleme Üzerine Kısa Bir Literatür Araştırması**
KARASULU B.
International Congress on Entrepreneurship, Technology, Innovation and Design 2018, Kırklareli, Turkey, 26 - 28 September 2018, vol.0, pp.11

Activities in Scientific Journals

The Turkish Journal of Electrical Engineering & Computer Sciences, Editor, 2015 - Continues

Memberships / Tasks in Scientific Organizations

IEEE Member, Member, 2008 - Continues

Scientific Refereeing

IEEE Transactions on Systems, Man, and Cybernetics: Systems, SCI Journal, June 2015

International Journal of Pattern Recognition and Artificial Intelligence (World Scientific), SCI Journal, May 2015

The Institution of Engineering and Technology (IET) Image Processing Journal (IEEE), SCI Journal, May 2015

EURASIP Journal on Image and Video Processing (Springer), SCI Journal, April 2015

Signal, Image and Video Processing (Springer), SCI Journal, December 2014

Computer Methods and Programs in Biomedicine (Elsevier), SCI Journal, December 2014

Int. J. of Computer Applications in Technology, Other Indexed Journal, August 2014

Engineering Applications of Artificial Intelligence (Elsevier), SCI Journal, June 2014

Medical & Biological Engineering & Computing (Springer), SCI Journal, February 2014
Applied Soft Computing (Elsevier), SCI Journal, February 2014
Engineering Applications of Artificial Intelligence (Elsevier), SCI Journal, September 2013
Applied Soft Computing (Elsevier), SCI Journal, June 2013
Project Supported by Higher Education Institutions, April 2012
Applied Soft Computing (Elsevier), SCI Journal, January 2012
Multimedia Tools and Applications (Springer), SCI Journal, January 2012
The Turkish Journal of Electrical Engineering & Computer Sciences (TUBITAK), SCI Journal, January 2012
Multimedia Tools and Applications (Springer), SCI Journal, January 2011
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi (PAJES), National Scientific Refreed Journal, January 2011
Applied Soft Computing (Elsevier), SCI Journal, January 2011

Citations

Total Citations (WOS):74

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