

Prof. CÜNEYT AKINLAR

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAH-7483-2019

ScopusID: 23396197500

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Education Information

Doctorate, University of Maryland, Engineering Faculty, Computer Science, United States Of America 1997 - 2001

Postgraduate, University of Maryland, Engineering Faculty, Computer Science, United States Of America 1995 - 1997

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 1989 - 1994

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, On Auto-Configuration of Routerless, Single-Router and Multi-Router Networks, University of Maryland, Computer Science Department, 2001

Research Areas

Computer Sciences, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2019 - Continues

Associate Professor, Anadolu University, Faculty Of Engineering, Department Of Computer Engineering, 2013 - 2019

Assistant Professor, Anadolu University, Faculty Of Engineering, Department Of Computer Engineering, 2003 - 2013

Academic and Administrative Experience

Anadolu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2010 - 2014

Anadolu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2004 - 2013

Courses

UZMANLIK ALAN DERSİ (YL)(J), Postgraduate, 2020 - 2021
ALGORITHMS AND COMPLEXITY(A), Undergraduate, 2019 - 2020
INTRODUCTION TO MICROCOMPUTERS(A), Undergraduate, 2020 - 2021
INTRODUCTION TO MICROCOMPUTERS LAB.(A), Undergraduate, 2020 - 2021
DATA STRUCTURES(A), Undergraduate, 2020 - 2021
PROBLEMS IN DATA STRUCTURES AND ALGORITHMS(A), Undergraduate, 2019 - 2020
ENGINEERING RESEARCH ON DATA STRUCTURES(A), Undergraduate, 2020 - 2021
ALGORITHMS AND COMPLEXITY(B), Undergraduate, 2019 - 2020
YÜKSEK LİSANS TEZ ÇALIŞMASI(J), Postgraduate, 2020 - 2021
VERİ YAPILARI LABORATUVARI(A), Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Accurate CNN-based pupil segmentation with an ellipse fit error regularization term**
AKINLAR C., Kucukkartal H. K., Topal C.
Expert Systems with Applications, vol.188, 2022 (SCI-Expanded)
- II. **SliceType: fast gaze typing with a merging keyboard**
Benligiray B., Topal C., AKINLAR C.
JOURNAL ON MULTIMODAL USER INTERFACES, vol.13, no.4, pp.321-334, 2019 (SCI-Expanded)
- III. **STag: A stable fiducial marker system**
Benligiray B., Topal C., AKINLAR C.
IMAGE AND VISION COMPUTING, vol.89, pp.158-169, 2019 (SCI-Expanded)
- IV. **EDTriangles: a high-speed triangle detection algorithm with a false detection control**
Berkaya S. K., Gunal S., Akinlar C.
PATTERN ANALYSIS AND APPLICATIONS, vol.21, no.1, pp.221-231, 2018 (SCI-Expanded)
- V. **ColorED: Color edge and segment detection by Edge Drawing (ED)**
Akinlar C., Topal C.
JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol.44, pp.82-94, 2017 (SCI-Expanded)
- VI. **CEDContours: A high speed contour detector for color images**
Akinlar C.
IMAGE AND VISION COMPUTING, vol.54, pp.60-70, 2016 (SCI-Expanded)
- VII. **PEL: A Predictive Edge Linking algorithm**
Akinlar C., Chome E.
JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol.36, pp.159-171, 2016 (SCI-Expanded)
- VIII. **On circular traffic sign detection and recognition**
Berkaya S. K., Gunduz H., Ozsen O., Akinlar C., Gunal S.
EXPERT SYSTEMS WITH APPLICATIONS, vol.48, pp.67-75, 2016 (SCI-Expanded)
- IX. **EDCircles: A real-time circle detector with a false detection control**
Akinlar C., Topal C.
PATTERN RECOGNITION, vol.46, no.3, pp.725-740, 2013 (SCI-Expanded)
- X. **Edge Drawing: A combined real-time edge and segment detector**
Topal C., Akinlar C.
JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol.23, no.6, pp.862-872, 2012 (SCI-Expanded)
- XI. **EDPF: A REAL-TIME PARAMETER-FREE EDGE SEGMENT DETECTOR WITH A FALSE DETECTION**

CONTROL

Akinlar C., Topal C.

INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE, vol.26, no.1, 2012 (SCI-Expanded)

XII. EDLines: A real-time line segment detector with a false detection control

Akinlar C., Topal C.

PATTERN RECOGNITION LETTERS, vol.32, no.13, pp.1633-1642, 2011 (SCI-Expanded)

XIII. QoS guarantee for multimedia traffic in smart homes

Kamel I., Akinlar C., El-Sayed H.

MULTIMEDIA TOOLS AND APPLICATIONS, vol.47, no.1, pp.87-103, 2010 (SCI-Expanded)

XIV. Enabling peer-to-peer communication for hosts in private address realms using IPv4 LSRR option and IPv4+4 addresses

Topal C., Akinlar C.

IET COMMUNICATIONS, vol.3, no.4, pp.512-519, 2009 (SCI-Expanded)

XV. Secure seamless peer-to-peer (P2P) UDP communication using IPv4 LSRR option and IPv4+4 addresses

Topal C., Akinlar C.

COMPUTERS & ELECTRICAL ENGINEERING, vol.35, no.1, pp.115-125, 2009 (SCI-Expanded)

XVI. Unique subnet auto-configuration in IPv6 networks

Altug R. O., Akinlar C.

AUTONOMIC PRINCIPLES OF IP OPERATIONS AND MANAGEMENT, PROCEEDINGS, vol.4268, pp.108-119, 2006 (SCI-Expanded)

XVII. A scalable bandwidth guaranteed distributed continuous media file system using network attached autonomous disks

Akinlar C., Mukherjee S.

IEEE TRANSACTIONS ON MULTIMEDIA, vol.5, no.1, pp.71-96, 2003 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. An Occlusion-Resistant Ellipse Detection Method by Joining Coelliptic Arcs

Çakır H. İ., TOPAL C., AKINLAR C.

European Conference on Computer Vision (ECCV), 1 - 03 October 2016

II. A Quantitative Assessment of Edge Preserving Smoothing Filters for Edge Detection

GÜNDÜZ H., TOPAL C., AKINLAR C.

World Conference on Soft Computing (WConSC), 12 - 15 May 2016

III. Counting Turkish Coins with a Calibrated Camera

BENLİGİRAY B., ÇAKIR H. İ., TOPAL C., AKINLAR C.

Image Analysis and Processing — ICIAP 2015, Italy, 7 - 11 September 2015, vol.9280, pp.216-226

IV. CannySR Using smart routing of edge drawing to convert Canny binary edge maps to edge segments

AKINLAR C., Chome E.

2015 International Symposium on Innovations in Intelligent SysTems and Applications (INISTA), Madrid, Spain, Spain, 2 - 04 September 2015, pp.1-6

V. Circular traffic sign recognition empowered by circle detection algorithm

GÜNDÜZ H., Kaplan Berkaya S., AKINLAR C., GÜNAL S.

2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Turkey, 24 - 26 April 2013

VI. Quantification of projective distortion for fiducial markers

BENLİGİRAY B., TOPAL C., AKINLAR C., GENÇ Y.

2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Turkey, 24 - 26 April 2013

- VII. **EDCircles Real time circle detection by Edge Drawing ED**
AKINLAR C., TOPAL C.
2012 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Kyoto, Japan, 25 - 30 March 2012, pp.1309-1312
- VIII. **EDContours High Speed Parameter Free Contour Detector Using EDPF**
TOPAL C., AKINLAR C.
2012 IEEE International Symposium on Multimedia, Irvine, CA, USA, 10 - 13 December 2012
- IX. **On the efficiency issues of virtual keyboard design**
TOPAL C., BENLİGİRAY B., AKINLAR C.
2012 IEEE International Conference on Virtual Environments Human-Computer Interfaces and Measurement Systems (VECIMS) Proceedings, Tianjin, China, 2 - 04 July 2012
- X. **İstatistiksel Tıkızlık Kestirimine Dayalı Gerçek Zamanlı Dairesel Nesne Tespiti**
BENLİGİRAY B., TOPAL C., AKINLAR C.
IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU), Turkey, 01 April 2012
- XI. **Freeman Kodlarının Çift Yönlü Süzgeçlenmesi ile Köşe Tespiti**
TOPAL C., ÖZKAN K., AKINLAR C.
IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU), Turkey, 01 April 2012
- XII. **Video-Based Lane Detection Using a Fast Vanishing Point Estimation Method**
BENLİGİRAY B., TOPAL C., AKINLAR C.
2012 IEEE International Symposium on Multimedia, Irvine, CA, USA, 10 - 12 December 2012
- XIII. **Edlines: Real-time line segment detection by Edge Drawing (ed)**
AKINLAR C., TOPAL C.
2011 18th IEEE International Conference on Image Processing, Brussels, Belgium, 11 - 14 September 2011
- XIV. **Edge Drawing: A Heuristic Approach to Robust Real-Time Edge Detection**
TOPAL C., AKINLAR C., GENÇ Y.
2010 20th International Conference on Pattern Recognition, Istanbul, Turkey, 23 - 26 August 2010
- XV. **Implementing IPv4 4 Addressing Architecture with IPv4 LSRR Option for Seamless Peer to Peer P2P Communication**
TOPAL C., AKINLAR C.
The Fifth International Symposium on Parallel and Distributed Processing and Applications (ISPA), 01 August 2007
- XVI. **Bilgisayar Ağları Eğitiminde Proje Tabanlı Çalışmanın Etkileri Bir Protokol Yığını Uygulaması**
BİLGE A., AKINLAR C.
EMO IV. Elektrik-Elektronik-Bilgisayar-Biyomedikal Mühendisliği Eğitimi Sempozyumu, Turkey, 01 January 2007
- XVII. **Unique subnet auto-configuration in IPv6 networks**
Altug R. O., Akinlar C.
6th IEEE International Workshop on IP Operations and Management, IPOM 2006, Dublin, Ireland, 23 - 25 October 2006, pp.108-119
- XVIII. **A multi-camera vision system for real-time tracking of parcels moving on a conveyor belt**
Karaca H. N., Akinlar C.
20th International Symposium on Computer and Information Sciences, ISCIS 2005, İstanbul, Turkey, 26 - 28 October 2005, pp.708-717
- XIX. **Design and implementation of a bandwidth sensitive distributed continuous media file system using the fibre channel network**
Akinlar C., Mukherjee S.
4th International Conference on Image and Video Retrieval, CIVR 2005, Singapore, 20 - 22 July 2005, vol.3568, pp.336-345
- XX. **IPv4 auto-configuration of multi-router zeroconf networks with unique subnets**
Akinlar C., Udaya Shankar A.
Networking - ICN 2005, Reunion Island, France, 17 - 21 April 2005, vol.3421, pp.156-163
- XXI. **A bandwidth sensitive distributed continuous media file system using the fibre channel network**

Akinlar C., Mukherjee S.

5th International Conference on Computational Science - ICCS 2005, Atlanta, GA, United States Of America, 22 - 25 May 2005, vol.3514, pp.396-404

- XXII. **TCP Performansının Veri Transferi Uygulamaları İçin Geliştirilmesi**
Güneş İ., Çakır A. Y., AKINLAR C.
Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu (ELECO), Turkey, 01 January 2004
- XXIII. **On secured end-to-end appliance control using SIP**
rahman m., AKINLAR C., Kamel I.
Proceedings 3rd IEEE International Workshop on System-on-Chip for Real-Time Applications, Liverpool, United Kingdom, 01 October 2002
- XXIV. **Marker-less tracking for AR: a learning-based approach**
GENÇ Y., Riedel S., AKINLAR C., Navab N.
Proceedings. International Symposium on Mixed and Augmented Reality, Darmstadt, Germany, 30 September 2002
- XXV. **IP address configuration algorithms for routerless and single-router zeroconf networks**
AKINLAR C., Shankar U., Mukherjee S., Braun D.
Proceedings ISCC 2002 Seventh International Symposium on Computers and Communications, Taormina-Giardini Naxos, Italy, 01 July 2002
- XXVI. **An IP address configuration algorithm for multi-router zeroconf networks**
AKINLAR C., Shankar U., Mukherjee S.
Proceedings ISCC 2002 Seventh International Symposium on Computers and Communications, Taormina-Giardini Naxos, Italy, 01 July 2002
- XXVII. **Name-to-address translation algorithms for zeroconf networks**
AKINLAR C., Shankar U.
2002 IEEE International Conference on Communications. Conference Proceedings. ICC 2002 (Cat. No.02CH37333), New York, NY, USA, 01 April 2002
- XXVIII. **A scalable distributed multimedia file system using network attached autonomous disks**
AKINLAR C., Mukherjee S.
Proceedings 8th International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (Cat. No.PR00728), San-Francisco, Costa Rica, 01 August 2000
- XXIX. **Bandwidth guarantee in a distributed multimedia file system using network attached autonomous disks**
AKINLAR C., Mukherjee S.
Proceedings Sixth IEEE Real-Time Technology and Applications Symposium. RTAS 2000, Washington, DC, USA, 01 May 2000
- XXX. **Autonomous Disks The Building Block for a Scalable Distributed File System**
AKINLAR C., Kamel I., Aref W., Mukherjee S.
Proceedings of Fifth International Workshop on Multimedia Information Systems (MIS), 01 January 1999
- XXXI. **Benchmarking a Network of PCs Running Parallel Applications**
Hollingsworth J., Güven E., AKINLAR C.
Proceedings of International Performance, Computing, and Communications Conference (IPCC), 1 - 03 February 1998

Supported Projects

AKINLAR C., Project Supported by Higher Education Institutions, Otomatik Trafik İşareti Tespit ve Tanıma Sistemi, 2013 - 2015

AKINLAR C., Project Supported by Higher Education Institutions, Gerçek Zamanlı Video Okülografik Bakış Yönü Tespit ve Takip Sisteminin Tasarımı ve Gerçeklemesi, 2013 - 2015

AKINLAR C., TUBITAK Project, Gerçek Zamanlı Video Okülografik Bakış Yönü Tespit ve Takip Sisteminin Tasarımını ve Gerçeklemesi TUBITAK Projesi 111E053, 2012 - 2014

AKINLAR C., TUBITAK Project, IPv4 4 Adresleri ile Dikişsiz P2P UDP İletişimi Sağlayan Bir Ev Geçiti Tasarım ve Gerçeklemesi, 2007 - 2008

Metrics

Publication: 48

Citation (WoS): 591

Citation (Scopus): 740

H-Index (WoS): 8

H-Index (Scopus): 8