Prof. CÜNEYT AKINLAR

Personal Information

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International Researcher IDs
ORCID: 0000-0002-0961-7790
Publons / Web Of Science ResearcherID: AAH-7483-2019
ScopusID: 23396197500
Yoksis Researcher ID: 52075

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 Engıneerıng, Department Of Computer Engıneerıng,
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, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, BİLGİSAYAR
MÜHENDİSLİĞİ BÖLÜMÜ, 2019 - Continues
Associate Professor, Anadolu University, Faculty Of Engıneerıng, Department Of Computer Engıneerıng, 2013 - 2019
Assistant Professor, Anadolu University, Faculty Of Engıneerıng, Department Of Computer Engıneerıng, 2003 - 2013

Academic and Administrative Experience

Anadolu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2010 - 2014
Anadolu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2004 - 2013

Anadolu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2004 - 2010

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**
BENLIGIRAY 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 Tasarımı ve Gerçeklemesi TÜBİTAK 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