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Personal Information

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Education Information

Doctorate, Purdue University, College Of Science, Computer Science, United States Of America 2002 - 2007

Postgraduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 1998 - 2001

Undergraduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 1993 - 1998

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Trust and Anonymity in Peer-to-peer Systems, Purdue University, College Of Science, 2007

Postgraduate, LDAP tabanlı Unix kullanıcı tanıma ve denetim sistemi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2001

Research Areas

Computer Sciences, Information Security and Reliability, Information System Reliability, Cryptography, Software Security, Computer Networks, Communications and Network Protocols, Computer Vision, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Pattern Recognition and Image Processing, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2013 - 2018

Lecturer PhD, Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2007 - 2013

Research Assistant, Purdue University, College Of Science, Computer Science, 2005 - 2007

Research Assistant, Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 1998 - 2005

Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2013 - Continues

Hacettepe Üniversitesi, Trafik Ve Yol Güvenliği Eğitim, Araştırma Ve Uygulama Merkezi, 2012 - Continues

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

- I. **Deployment and communication patterns in microservice architectures: A systematic literature review**
Aksakalli I. K. , Celik T., CAN A. B. , Tekinerdogan B.
JOURNAL OF SYSTEMS AND SOFTWARE, vol.180, 2021 (Journal Indexed in SCI)
- II. **Systematic Approach for Generation of Feasible Deployment Alternatives for Microservices**
Aksakalli I. K. , Celik T., CAN A. B. , Tekinerdogan B.
IEEE ACCESS, vol.9, pp.29505-29529, 2021 (Journal Indexed in SCI)
- III. **Integrating global and local image features for enhanced loop closure detection in RGB-D SLAM systems**
GÜÇLÜ O., CAN A. B.
VISUAL COMPUTER, vol.36, no.6, pp.1271-1290, 2020 (Journal Indexed in SCI)
- IV. **k-SLAM: A fast RGB-D SLAM approach for large indoor environments**
GÜÇLÜ O., CAN A. B.
COMPUTER VISION AND IMAGE UNDERSTANDING, vol.184, pp.31-44, 2019 (Journal Indexed in SCI)
- V. **Fast and Effective Loop Closure Detection to Improve SLAM Performance**
GÜÇLÜ O., CAN A. B.
JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, vol.93, pp.495-517, 2019 (Journal Indexed in SCI)
- VI. **Examination of various classification strategies in classification of lung nodule characteristics**
KAYA A., KEÇELİ A. S. , CAN A. B.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.2, pp.710-725, 2019 (Journal Indexed in SCI)
- VII. **Nuclear expansion and pore opening are instant signs of neuronal hypoxia and can identify poorly fixed brains**
DEHGHANI A., Karatas H., CAN A. B. , ERDEMLİ E., YEMİSİ M., EREN-KOCAK E., DALKARA T.
SCIENTIFIC REPORTS, vol.8, 2018 (Journal Indexed in SCI)
- VIII. **Combining 2D and 3D deep models for action recognition with depth information**
KEÇELİ A. S. , KAYA A., CAN A. B.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.12, no.6, pp.1197-1205, 2018 (Journal Indexed in SCI)
- IX. **Depth features to recognise dyadic interactions**
KEÇELİ A. S. , KAYA A., CAN A. B.
IET Computer Vision, vol.12, no.3, pp.331-339, 2018 (Journal Indexed in SCI)
- X. **Consistency-based trust management in P2P networks**
ŞAHİN Y., CAN A. B.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.2, pp.631-643, 2018 (Journal Indexed in SCI)
- XI. **Volumetric Object Recognition Using 3-D CNNs on Depth Data**
ÇAĞLAYAN A., CAN A. B.
IEEE ACCESS, vol.6, pp.20058-20066, 2018 (Journal Indexed in SCI)
- XII. **Cyclotorsion measurement using scleral blood vessels**
KAYA A., KEÇELİ A. S. , CAN A. B. , Çakmak H. B.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.87, pp.152-161, 2017 (Journal Indexed in SCI)
- XIII. **Cyclotorsion Detection by Using Scleral Blood Vessels**
KAYA A., KEÇELİ A. S. , CAN A. B. , Çakmak H. B.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.87, pp.152-161, 2017 (Journal Indexed in SCI Expanded)
- XIV. **A GPU-Based Approach for Automatic Segmentation of White Matter Lesions**
KEÇELİ A. S. , CAN A. B. , KAYA A.
IETE JOURNAL OF RESEARCH, vol.63, no.4, pp.461-472, 2017 (Journal Indexed in SCI)
- XV. **Gen Trust: A genetic trust management model for peer-to-peer systems**
TAHTA U. E. , Sen S., CAN A. B.

- APPLIED SOFT COMPUTING, vol.34, pp.693-704, 2015 (Journal Indexed in SCI)
- XVI. **A weighted rule based method for predicting malignancy of pulmonary nodules by nodule characteristics**
KAYA A., CAN A. B.
JOURNAL OF BIOMEDICAL INFORMATICS, vol.56, pp.69-79, 2015 (Journal Indexed in SCI)
- XVII. **RECOGNITION OF BASIC HUMAN ACTIONS USING DEPTH INFORMATION**
KEÇELİ A. S. , CAN A. B.
INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE, vol.28, no.2, 2014
(Journal Indexed in SCI)
- XVIII. **SORT: A Self-Organizing Trust Model for Peer-to-Peer Systems**
CAN A. B. , BHARGAVA B.
IEEE TRANSACTIONS ON DEPENDABLE AND SECURE COMPUTING, vol.10, no.1, pp.14-27, 2013 (Journal Indexed in SCI)
- XIX. **A computer program (TSecSoft) to determine mineral percentages using photographs obtained from thin sections**
YESILOGLU-GULTEKIN N., KEÇELİ A. S. , SEZER E., CAN A. B. , GÖKÇEOĞLU C., BAYHAN H.
COMPUTERS & GEOSCIENCES, vol.46, pp.310-316, 2012 (Journal Indexed in SCI)
- XX. **Apoptotic and necrotic death mechanisms are concomitantly activated in the same cell after cerebral ischemia**
Unal-Cevik I., KILINC M., CAN A. B. , GURSOY-OZDEMIR Y., DALKARA T.
STROKE, vol.35, no.9, pp.2189-2194, 2004 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **k-anonymity Chord for Anonymous Query Response**
CAN A. B. , Bhargava B.
INTERNATIONAL JOURNAL OF NEXT-GENERATION COMPUTING, vol.5, no.3, pp.274-289, 2014 (Journal Indexed in ESCI)
- II. **Afyon-Akşehir Grabeni Batı Kenarının tektonik Özellikleri Üzerine Jeolojik ve Jeofizik Gözlemler: İki Evreli Genişleme Modeli hakkındaki Tartışmalara Bir Katkı**
East K., Kaya S., Ecevitoglu B., Işık V., Kaypak B., Seyitoğlu G., Uyar G. G. , Can A. B. , Baksı E.
HACETTEPE YER BİLİMLERİ, vol.35, no.1, pp.1-16, 2014 (International Refereed University Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Distance based Training for Cross-Modality Person Re-Identification**
Tekeli N., CAN A. B.
IEEE/CVF International Conference on Computer Vision (ICCV), Seoul, South Korea, 27 October - 02 November 2019, pp.4540-4549
- II. **AndMFC: Android Malware Family Classification Framework**
Turker S., CAN A. B.
IEEE 30th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), İstanbul, Turkey, 08 September 2019
- III. **RGB-D Indoor Mapping Using Deep Features**
Guclu O., Caglayan A., CAN A. B.
32nd IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), California, United States Of America, 16 - 20 June 2019, pp.1248-1257
- IV. **Segmentation of Objects in RGB-D Scenes by Clustering Surfaces**
YALIÇ H. Y. , CAN A. B.

26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018

- V. **An Empirical Analysis of Deep Feature Learning for RGB-D Object Recognition**
ÇAĞLAYAN A., CAN A. B.
14th International Conference on Image Analysis and Recognition (ICIAR), Montreal, Canada, 5 - 07 July 2017, vol.10317, pp.312-320
- VI. **3D Convolutional Object Recognition using Volumetric Representations of Depth Data**
ÇAĞLAYAN A., CAN A. B.
15th IAPR International Conference on Machine Vision Applications (MVA), Nagoya, Japan, 8 - 12 May 2017, pp.125-128
- VII. **Histogram Based Visual Place Recognition for Improving SLAM Performance**
GÜÇLÜ O., CAN A. B.
IEEE International Conference on Autonomous Robot Systems and Competitions (ICARSC), Braganca, Portugal, 4 - 06 May 2016, pp.174-180
- VIII. **Malignancy prediction by using characteristic-based fuzzy sets: A preliminary study**
KAYA A., CAN A. B.
IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2015, İstanbul, Turkey, 2 - 05 August 2015
- IX. **A Comparison of Feature Detectors and Descriptors in RGB-D SLAM Methods**
GÜÇLÜ O., CAN A. B.
12th International Conference on Image Analysis and Recognition (ICIAR), Niagara Falls, Canada, 22 - 24 July 2015, vol.9164, pp.297-305
- X. **Determining Malignancy of Small Pulmonary Nodules by Nodule Characteristics**
KAYA A., CAN A. B.
6th European Conference of the International Federation for Medical and Biological Engineering, 7 - 11 September 2014
- XI. **eFis: A Fuzzy Inference Method for Predicting Malignancy of Small Pulmonary Nodules**
KAYA A., CAN A. B.
11th International Conference on Image Analysis and Recognition (ICIAR), Portugal, 22 - 24 October 2014, vol.8815, pp.255-262
- XII. **Action Recognition Based on Feature Extraction From Time Series**
KEÇELİ A. S. , CAN A. B.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.485-488
- XIII. **A Multimodal Approach for Recognizing Human Actions Using Depth Information**
KEÇELİ A. S. , CAN A. B.
22nd International Conference on Pattern Recognition (ICPR), Stockholm, Sweden, 24 - 28 August 2014, pp.421-426
- XIV. **Evolving a Trust Model for Peer-to-Peer Networks Using Genetic Programming**
Tahta U. E. , CAN A. B. , Sen S.
17th European Conference on Applications of Evolutionary Computation (EvpApplications), Granada, Nicaragua, 23 - 25 April 2014, vol.8602, pp.3-14
- XV. **Recognition of Human Actions By using Depth Information**
KEÇELİ A. S. , CAN A. B.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XVI. **A Plant Recognition Approach Using Shape and Color Features in Leaf Images**
ÇAĞLAYAN A., GÜÇLÜ O., CAN A. B.
17th International Conference on Image Analysis and Processing (ICIAP), Naples, Italy, 9 - 13 September 2013, vol.8157, pp.161-170
- XVII. **Characterization of Lung Nodules**
KAYA A., CAN A. B.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XVIII. **Maden Göçüklerinde Mahsur Kalan İşçilerin Mikrosismik Yöntemlerle Saptanması**

- KAYPAK B., UYAR G. G. , AKSOY C. O. , TEZEL T., CAN A. B.
Maden İşletmelerinde İşçi Sağlığı ve İş Güvenliği Sempozyumu, Turkey, 24 - 25 November 2011
- XIX. **Modelling of Non Linear behavior of rock blasts**
UYAR G. G. , ECEVİTOĞLU G. B. , KAYPAK B., CAN A. B. , BABAYİĞİT E.
22nd World Mining Congress & Expo, 11 - 16 September 2011
- XX. **Automatic Recognition of Traffic Signs**
YALIÇ H. Y. , CAN A. B.
7th International Symposium on Image and Signal Processing and Analysis (ISPA), Dubrovnik, Croatia, 4 - 06 September 2011, pp.361-366
- XXI. **Designing a pattern stabilization method using scleral blood vessels for laser eye surgery**
KAYA A., CAN A. B. , Çakmak H. B.
2010 20th International Conference on Pattern Recognition, ICPR 2010, İstanbul, Turkey, 23 - 26 August 2010, pp.698-701
- XXII. **Patlatmalarda Yüksek Hızlı Video Kamera ve Sismometrelerin Eş Zamanlı Kullanılması**
UYAR G. G. , ECEVİTOĞLU G. B. , CAN A. B. , KAYPAK B., BABAYİĞİT E., ERGUDER İ., BOZTAŞ S.
VI. Delme-Patlatma Sempozyumu, Turkey, 4 - 05 November 2010
- XXIII. **Predetermination of the fault crossing the underground coal mine galleries by seismic reflection method an application at a longwall coal mine in Turkey**
UYAR G. G. , ECEVİTOĞLU G. B. , KAYPAK B., CAN A. B.
Twenty-Seventh Annual International Pittsburg Coal Conference, İstanbul, Turkey, 11 - 14 October 2010
- XXIV. **Anonymous Access to Trust Information Using K-anonymity Chord**
CAN A. B. , Bhargava B.
2nd International Conference on Advances in P2P Systems (AP2PS), Florence, Italy, 25 - 30 October 2010, pp.14-19
- XXV. **Developing an eye tracking method for laser eye surgery Lazer göz cerrahisi için bir göz takip yöntemi geliştirilmesi**
KAYA A., CAN A. B.
2009 IEEE 17th Signal Processing and Communications Applications Conference, SIU 2009, Antalya, Turkey, 9 - 11 April 2009, pp.392-395
- XXVI. **Kaunos antik liman bölgesi ve Kaunos tuzlasındaki yer radarı ve sığ deniz sismiği araştırmaları**
ECEVİTOĞLU G. B. , UYAR G. G. , KAYPAK B., CAN A. B.
Kaunos Antik Liman ve Tuzla Çalışmaları Çalıştayı, Turkey, 21 August 2009
- XXVII. **Developing an Eye Tracking Method for Laser Eye Surgery**
KAYA A., CAN A. B.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.634-637
- XXVIII. **Automatic Segmentation Of White Matter Lesions**
KEÇELİ A. S. , CAN A. B.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.443-446

Supported Projects

CAN A. B. , Project Supported by Higher Education Institutions, 25 Sinyal İşleme ve İletişim Uygulamaları Kurultayı, 2017 - 2017

CAN A. B. , ÇAĞLAYAN A., Project Supported by Higher Education Institutions, RGB-D Nesne Tanıma İçin Derin Niteliklerin Öğrenilmesinin Deneysel Bir Analizi, 2017 - 2017

CAN A. B. , Project Supported by Higher Education Institutions, 7 Uluslararası Ortamsal Sistemler Ağlar ve Teknolojiler Konferansı, 2016 - 2017

KEÇELİ A. S. , CAN A. B. , Project Supported by Higher Education Institutions, Derinlik Bilgisi Kullanılarak Düşük Gecikme

Sürekli Hareket Tanıma, 2015 - 2016

CAN A. B. , GÜÇLÜ O., Project Supported by Higher Education Institutions, RGBD SLAM Yöntemlerindeki Nitelik Bulucu ve Tanımlayıcıların Bir Karşılaştırması, 2015 - 2016

Citations

Total Citations (WOS):330

h-index (WOS):7