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Personal Information

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Education Information

Doctorate, Orta Doğu Teknik Üniversitesi, Risk Analizi A.B.D., Bilgisayar Mühendisliği, Turkey 2003 - 2008

Postgraduate, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2001 - 2003

Undergraduate, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 1997 - 2001

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Category knowledge, skeleton-based shape matching and shape classification, Orta Doğu Teknik Üniversitesi, Risk Analizi A.B.D., Bilgisayar Mühendisliği (Dr), 2008

Postgraduate, Vision-based human-computer interaction using laser pointer, Orta Doğu Teknik Üniversitesi, Risk Analizi A.B.D., Bilgisayar Mühendisliği (YI) (Tezli), 2003

Research Areas

Computer Sciences, 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, 2011 - 2018

Lecturer, Hacettepe Üniversitesi, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2010 - 2011

Research Assistant, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İngiliz Dili ve Edebiyatı Bölümü, 2001 - 2008

Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2015 - 2015

Courses

BBM 101: INTRODUCTION TO PROGRAMMING I, Undergraduate, 2016 - 2017, 2017 - 2018
BBM 406: FUNDAMENTALS OF MACHINE LEARNING, Undergraduate, 2016 - 2017, 2017 - 2018
CMP 722: Advanced Topics in Computer Vision, Doctorate, 2016 - 2017
BBM 202: Algorithms, Undergraduate, 2016 - 2017

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

- I. **Synthetic18K: Learning better representations for person re-ID and attribute recognition from 1.4 million synthetic images**
Uner O. C. , Aslan C., Ercan B., Ates T., ÇELİKCAN U., Erdem A., Erdem E.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.97, 2021 (Journal Indexed in SCI)
- II. **From Noon to Sunset: Interactive Rendering, Relighting, and Recolouring of Landscape Photographs by Modifying Solar Position**
Ture M., Cıklabakkal M. E. , Erdem A., Erdem E., SATILMIŞ P., AKYÜZ A. O.
COMPUTER GRAPHICS FORUM, 2021 (Journal Indexed in SCI)
- III. **Using synthetic data for person tracking under adverse weather conditions**
Kerim A., ÇELİKCAN U., Erdem E., Erdem A.
IMAGE AND VISION COMPUTING, vol.111, 2021 (Journal Indexed in SCI)
- IV. **Leveraging auxiliary image descriptions for dense video captioning**
Boran E., Erdem A., İKİZLER CİNBIŞ N., Erdem E., Madhyastha P., Specia L.
PATTERN RECOGNITION LETTERS, vol.146, pp.70-76, 2021 (Journal Indexed in SCI)
- V. **mustGAN: multi-stream Generative Adversarial Networks for MR Image Synthesis**
Yurt M., Dar S. U. H. , Erdem A., Erdem E., Oguz K. K. , ÇUKUR T.
MEDICAL IMAGE ANALYSIS, vol.70, 2021 (Journal Indexed in SCI)
- VI. **NOVA: Rendering Virtual Worlds with Humans for Computer Vision Tasks**
Kerim A., Aslan C., ÇELİKCAN U., Erdem E., Erdem A.
COMPUTER GRAPHICS FORUM, 2021 (Journal Indexed in SCI)
- VII. **Generating visual story graphs with application to photo album summarization**
Celikkale B., Erdogan G., Erdem A., Erdem E.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.90, 2021 (Journal Indexed in SCI)
- VIII. **Hedging static saliency models to predict dynamic saliency**
Kavak Y., Erdem E., Erdem A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.81, 2020 (Journal Indexed in SCI)
- IX. **Manipulating Attributes of Natural Scenes via Hallucination**
KARACAN L., Akata Z., Erdem A., Erdem E.
ACM TRANSACTIONS ON GRAPHICS, vol.39, no.1, 2020 (Journal Indexed in SCI)
- X. **Image Synthesis in Multi-Contrast MRI With Conditional Generative Adversarial Networks**
Dar S. U. H. , Yurt M., KARACAN L., Erdem A., ERDEM M. E. , ÇUKUR T.
IEEE TRANSACTIONS ON MEDICAL IMAGING, vol.38, no.10, pp.2375-2388, 2019 (Journal Indexed in SCI)
- XI. **Spatio-Temporal Saliency Networks for Dynamic Saliency Prediction**
Bak C., KOÇAK A., ERDEM M. E. , Erdem A.
IEEE TRANSACTIONS ON MULTIMEDIA, vol.20, no.7, pp.1688-1698, 2018 (Journal Indexed in SCI)
- XII. **Alpha Matting With KL-Divergence-Based Sparse Sampling**
KARACAN L., Erdem A., ERDEM M. E.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.26, no.9, pp.4523-4536, 2017 (Journal Indexed in SCI)
- XIII. **A comparative study for feature integration strategies in dynamic saliency estimation**
Kavak Y., ERDEM M. E. , Erdem A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.51, pp.13-25, 2017 (Journal Indexed in SCI)
- XIV. **Deformable part-based tracking by coupled global and local correlation filters**

AKIN O., Erdem E., Erdem A., Mikolajczyk K.

JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol.38, pp.763-774, 2016 (Journal Indexed in SCI)

XV. Automatic Description Generation from Images: A Survey of Models, Datasets, and Evaluation Measures

Bernardi R., Cakici R., Elliott D., Erdem A., ERDEM M. E. , İKİZLER CİNBIŞ N., Keller F., Muscat A., Plank B.

JOURNAL OF ARTIFICIAL INTELLIGENCE RESEARCH, vol.55, pp.409-442, 2016 (Journal Indexed in SCI)

XVI. Visual saliency estimation by nonlinearly integrating features using region covariances

Erdem E., Erdem A.

JOURNAL OF VISION, vol.13, no.4, 2013 (Journal Indexed in SCI)

XVII. Graph Transduction as a Noncooperative Game

Erdem A., Pelillo M.

NEURAL COMPUTATION, vol.24, no.3, pp.700-723, 2012 (Journal Indexed in SCI)

XVIII. A similarity-based approach for shape classification using Asian skeletons

Erdem A., Tari S.

PATTERN RECOGNITION LETTERS, vol.31, no.13, pp.2024-2032, 2010 (Journal Indexed in SCI)

XIX. Dissimilarity between two skeletal trees in a context

Baseski E., Erdem A., Tari S.

PATTERN RECOGNITION, vol.42, no.3, pp.370-385, 2009 (Journal Indexed in SCI)

XX. Vision-based continuous Graffiti (TM)-like text entry system

Erdem I., Erdem M. E. , Atalay V., Cetin A.

OPTICAL ENGINEERING, vol.43, no.3, pp.553-558, 2004 (Journal Indexed in SCI)

Articles Published in Other Journals

I. MSVD-Turkish: a comprehensive multimodal video dataset for integrated vision and language research in Turkish

Citamak B., Caglayan O., Kuyu M., Erdem E., Erdem A., Madhyastha P., Specia L.

MACHINE TRANSLATION, vol.35, pp.265-288, 2021 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Procedural Reasoning Networks for Understanding Multimodal Procedures

Amaç M. S. , Yağcıoğlu S., ERDEM İ. A. , ERDEM M. E.

The SIGNLL Conference on Computational Natural Language Learning (CoNLL), Hong Kong, Hong Kong, 3 - 04 November 2019

II. MSVD-Türkçe: Türkçe Video Altyazılama için Geniş Ölçekli Bir Veri Kümesi (MSVD-Turkish: A Large-Scale Dataset for Video Captioning in Turkish)

Çitamak B., Kuyu M., ERDEM İ. A. , ERDEM M. E.

27. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU 2019), Sivas, Turkey, 24 - 26 April 2019

III. Derin Modellerin Eğitiminde Uygulanan Yöntemlerin Giysi Niteliklerinin Tespiti Üzerinde Kıyaslamalı Bir Analizi (A Comparative Analysis of Practices in Training Deep Models for Fashion Attribute Detection)

Amaç M. S. , ERDEM İ. A. , ERDEM M. E.

27. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU 2019), Turkey, 24 - 26 April 2019

IV. Multimodal Learning with Vision and Language

Erdem A., Erdem E.

9th International Conference on Image Processing Theory, Tools and Applications (IPTA), İstanbul, Turkey, 6 - 09 November 2019

- V. **MSVD-Turkish: A Large-Scale Dataset for Video Captioning in Turkish**
Citamak B., Kuyu M., Erdem A., Erdem E.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- VI. **A Comparative Analysis of Practices in Training Deep Models for Fashion Attribute Detection**
Amac M. S. , Erdem A., Erdem E.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- VII. **Diverse Neural Photo Album Summarization**
Ozkose Y. E. , Celikkale B., Erdem E., Erdem A.
9th International Conference on Image Processing Theory, Tools and Applications (IPTA), İstanbul, Turkey, 6 - 09 November 2019
- VIII. **RecipeQA: A Challenge Dataset for Multimodal Comprehension of Cooking Recipes**
Yagcioglu S., ERDEM İ. A. , ERDEM M. E. , İKİZLER CİNBIŞ N.
Conference on Empirical Methods in Natural Language Processing (EMNLP) 2018, Bruksel, Belgium, 31 October 2018, pp.1358-1368
- IX. **Altsözcük Öğeleri ile Türkçe Görüntü Altyazılama (Image Captioning in Turkish with Subword Units)**
Kuyu M., ERDEM İ. A. , ERDEM M. E.
26. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU 2018), İzmir, Turkey, 02 May 2018, pp.1-4
- X. **Kişi Görüntülerinin Nitelik Esaslı Üretilmesi (Generating Person Images Based on Attributes)**
GÜNEL M., ERDEM M. E. , ERDEM İ. A.
26. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU 2018), 2 - 05 May 2018
- XI. **Image Captioning in Turkish with Subword Units**
Kuyu M., Erdem A., Erdem E.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XII. **Finding Location of A Photograph with Deep Learning**
Ozkose Y. E. , Yilickoglu T. A. , KARACAN L., Erdem A.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XIII. **Generating Person Images Based on Attributes**
Gunel M., Erdem E., Erdem A.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XIV. **Automatic Description Generation from Images: A Survey of Models, Datasets, and Evaluation Measures**
BERNARDI R., ÇAKICI R., ELLIOTT D., ERDEM İ. A. , ERDEM M. E. , İKİZLER CİNBIŞ N., KELLER F., MUSCAT A., PLANK B.
International Joint Conference on Artificial Intelligence, 19 - 25 August 2017
- XV. **Re-evaluating Automatic Metrics for Image Captioning**
KİLICKAYA M., ERDEM İ. A. , ERDEM M. E. , İKİZLER CİNBIŞ N.
The 15th Conference of the European Chapter of the Association for Computational Linguistics, 3 - 07 April 2017
- XVI. **Feature-Based Efficient Moving Object Detection for Low-Altitude Aerial Platforms**
Logoglu K. B. , Lezki H., Yucel M. K. , Ozturk A., Kucukkomurler A., Karagoz B., Erdem A., ERDEM M. E.
16th IEEE International Conference on Computer Vision (ICCV), Venice, Italy, 22 - 29 October 2017, pp.2119-2128
- XVII. **Turkish Cuisine: A Benchmark Dataset with Turkish Meals for Food Recognition**
Gungor C., Baltaci F., ERDEM İ. A. , ERDEM M. E.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XVIII. **Leveraging Captions in the Wild to Improve Object Detection**
KİLICKAYA M., İKİZLER CİNBIŞ N., ERDEM M. E. , ERDEM İ. A.
5th Workshop on Vision and Language (VL'16), 12 August 2016
- XIX. **The Visual Object Tracking VOT2016 Challenge Results**
Kristan M., Leonardis A., Matas J., Felsberg M., Pflugfelder R., Cehovin L., Vojir T., Hager G., Lukezic A., Fernandez G., et al.
14th European Conference on Computer Vision (ECCV), Amsterdam, Netherlands, 8 - 16 October 2016, vol.9914, pp.777-823

- XX. **The Thermal Infrared Visual Object Tracking VOT-TIR2016 Challenge Results**
Felsberg M., Kristan M., Matas J., Leonardis A., Pflugfelder R., Hager G., Berg A., Eldesokey A., Ahlberg J., Cehovin L., et al.
14th European Conference on Computer Vision (ECCV), Amsterdam, Netherlands, 8 - 16 October 2016, vol.9914, pp.824-849
- XXI. **Clustering Motion Trajectories via Dominant Sets**
Bak C., Erdem A., ERDEM M. E.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.601-604
- XXII. **Dominant Sets Based Analysis of Human Crowds**
ASAL B., Erdem A., ERDEM M. E.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1713-1716
- XXIII. **Summarizing Personal Image Collections with Intrinsic Properties**
Erdogan G., Celikkale B., Erdem A., ERDEM M. E.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1225-1228
- XXIV. **TasvirEt: A Benchmark Dataset for Automatic Turkish Description Generation from Images**
Unal M. E. , Citamak B., Yagcioglu S., Erdem A., ERDEM M. E. , İKİZLER CİNBIŞ N., Cakici R.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1977-1980
- XXV. **A Distributed Representation Based Query Expansion Approach for Image Captioning**
Yagcioglu S., ERDEM M. E. , Erdem A., Cakici R.
53rd Annual Meeting of the Association-for-Computational-Linguistics (ACS) / 7th International Joint Conference on Natural Language Processing of the Asian-Federation-of-Natural-Language-Processing (IJCNLP), Beijing, China, 26 - 31 July 2015, pp.106-111
- XXVI. **City Scale Image Geolocalization via Dense Scene Alignment**
Yagcioglu S., ERDEM M. E. , Erdem A.
IEEE Winter Conference on Applications of Computer Vision (WACV 2015), Hawaii, United States Of America, 6 - 09 January 2015, pp.726-732
- XXVII. **Image Matting with KL-Divergence Based Sparse Sampling**
KARACAN L., Erdem A., ERDEM M. E.
IEEE International Conference on Computer Vision, Santiago, Chile, 11 - 18 December 2015, pp.424-432
- XXVIII. **Top down saliency estimation via superpixel based discriminative dictionaries**
KOÇAK A., Çizmeciler K., ERDEM İ. A. , ERDEM M. E.
British Machine Vision Conference (BMVC 2014), 1 - 05 September 2014
- XXIX. **Data driven image captioning with meta class based retrieval**
KİLİCKAYA M., ERDEM M. E. , ERDEM İ. A. , İKİZLER CİNBIŞ N., ÇAKICI R.
2014 22nd Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, Turkey, 23 - 25 April 2014
- XXX. **VISUAL SALIENCY GUIDED EXPOSURE FUSION**
Mammadova K., ERDEM M. E. , Erdem A.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.536-539
- XXXI. **Online Learning and Detection with Part-based Circulant Structure**
Akin O., Mikolajczyk K.
22nd International Conference on Pattern Recognition (ICPR), Stockholm, Sweden, 24 - 28 August 2014, pp.4229-4233
- XXXII. **Image Colorization via Dense Correspondences**
Gunel M., KARACAN L., Erdem A., ERDEM M. E.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April

2014, pp.285-288

XXXIII. Evaluating Deghosting Algorithms for HDR Images

Tursun O. T. , AKYÜZ A. O. , Erdem A., ERDEM M. E.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1275-1278

XXXIV. Visual saliency estimation by integrating features using multiple kernel learning

Kavak Y., ERDEM M. E. , ERDEM İ. A.

6th International Symposium on Attention in Cognitive Systems (ISACS 2013), 3 - 05 August 2013

XXXV. Visual Attention-driven Spatial Pooling for Image Memorability

Celikkale B., Erdem A., ERDEM M. E.

26th IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Oregon, United States Of America, 23 - 28 June 2013, pp.976-983

XXXVI. Group Sparsity Based Sparse Coding for Region Covariances

Erdogan H. T. , ERDEM M. E. , ERDEM İ. A.

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

XXXVII. MILIS Çoklu Örnekle Öğrenme Algoritmasının Farklı Bir Örnek Seçme Yöntemiyle Yeniden İncelenmesi

Akın O., ERDEM İ. A. , ERDEM M. E.

20. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU 2012), Muğla, Turkey, Turkey, 18 - 20 April 2012

XXXVIII. Graph Transduction as a Non-cooperative Game

Erdem A., Pelillo M.

8th IAPR-TC-15 International Workshop on Graph-Based Representations in Pattern Recognition (GbRPR), Münster, Germany, 18 - 20 May 2011, vol.6658, pp.195-204

XXXIX. Multiple-Instance Learning with Instance Selection via Dominant Sets

Erdem A., ERDEM M. E.

1st International Workshop on Similarity-Based Pattern Recognition (SIMBAD), Venice, Italy, 28 - 30 September 2011, vol.7005, pp.177-191

XL. Articulation Prior in an Axial Representation

ERDEM İ. A. , ERDEM M. E. , TARI Z. S.

International Workshop on the Representation and Use of Prior Knowledge in Computer Vision, 13 May 2006

XLI. Edge Strength Functions as Shape Priors in Image Segmentation

ERDEM M. E. , ERDEM İ. A. , TARI Z. S.

5th International Workshop on Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR 2005), 9 - 11 November 2005

XLII. Üç Boyutlu Katı Nesnelerin Yansıtma Özelliklerinin Görüntülerden Çıkarılması

ERDEM M. E. , ERDEM İ. A. , Yılmaz U. G. , ATALAY M. V.

12. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU 2004), Turkey, 28 - 30 April 2004

XLIII. Computer vision based unistroke keyboard system and mouse for the handicapped

ERDEM M. E. , ERDEM İ. A. , ATALAY M. V. , ÇETİN A. E.

IEEE International Conference on Multimedia and Expo. (ICME 2003), Baltimore, MD, USA, 6 - 09 July 2003

XLIV. Engelliler İçin Bilgisayarlı Görmeye Dayalı Klavye ve Fare Sistemi

ERDEM İ. A. , ERDEM M. E. , ATALAY M. V. , ÇETİN A. E.

11. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU 2003), Turkey, 18 - 20 June 2003

XLV. Computer Vision Based Unistroke Keyboards

ERDEM İ. A. , ERDEM M. E. , ATALAY M. V. , ÇETİN A. E.

7th International Symposium On Computer and Information Sciences (ISCIS 2002), 28 - 30 October 2002

XLVI. Kağıt Klavye Bilgisayarlı Görmeye Dayalı Klavye

ERDEM İ. A. , ERDEM M. E. , ATALAY M. V. , ÇETİN A. E.

10. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU 2002), Turkey, 12 - 14 June 2002

XLVII. Bilgisayarlı Görmeye Dayalı Fare Sistemi

ERDEM İ. A. , ERDEM M. E. , ATALAY M. V. , ÇETİN A. E.

Supported Projects

- DUYGULU ŞAHİN P., ERDEM M. E. , İKİZLER CİNBIŞ N., ERDEM İ. A. , TUBITAK Project, Büyük Görsel Verinin Yorumlanmasına Yönelik Özetleme Yaklaşımları, 2017 - Continues
- İKİZLER CİNBIŞ N., DUYGULU ŞAHİN P., ERDEM İ. A. , ERDEM M. E. , Project Supported by Higher Education Institutions, Bozırda Yapay Öğrenme Yaz Okulu 2017 Bilgisayarlı Görü ve Robotik, 2017 - 2018
- ERDEM İ. A. , ERDEM M. E. , Project Supported by Higher Education Institutions, ICCV 2017 Etkinliğine Katılım Desteği, 2017 - 2017
- ERDEM İ. A. , TUBITAK Project, TÜBİTAK 113E497 Videolardaki İlginçliklerin Bulunmasına Yönelik Birleşik Bir Sistem, 2014 - 2017
- ERDEM İ. A. , Project Supported by Higher Education Institutions, NIPS 2016 Konferansına Katılım Desteği, 2016 - 2016
- ERDEM İ. A. , Project Supported by Higher Education Institutions, IEEE Conference on Computer Vision and Pattern Recognition 2016 (CVPR 2016) adlı konferansa katılım desteği, 2016 - 2016
- ERDEM İ. A. , Project Supported by Higher Education Institutions, Kişisel Görüntü Kümelerinin İçsel Özellikler Kullanılarak Özetlenmesi, 2016 - 2016
- ERDEM İ. A. , Project Supported by Higher Education Institutions, Eurasia Graphics 2015 konferansına davetli konuşmacı olarak katılım desteği, 2015 - 2016
- ERDEM İ. A. , ERDEM M. E. , ÇAKICI R., YAĞCIOĞLU S., Project Supported by Higher Education Institutions, Görüntü Altyazılama için Dağıtılmış Temsil Tabanlı Sorgu Genişletme Yaklaşımı, 2015 - 2015
- ERDEM İ. A. , Project Supported by Higher Education Institutions, IEEE Conference on Computer Vision and Pattern Recognition 2015 (CVPR 2015) adlı konferansa katılım desteği, 2015 - 2015

Citations

Total Citations (WOS):739

h-index (WOS):13