

## Assoc. Prof. NAZLI İKİZLER CİNBIŞ

### Personal Information

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### Education Information

Doctorate, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2002 - 2008

Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2000 - 2002

Under Graduate, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 1996 - 2000

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Understanding human motion: Recognition and retrieval of human activities, Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2008

Post Graduate, Benefit maximizing classification using feature intervals, Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2002

### Research Areas

Computer Sciences, 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 PhD, Boston University, Mühendislik Fakültesi, Bilgisayar Müh, 2008 - 2010

Research Assistant, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2000 - 2008

### Professional Experience

Head of Department, Hacettepe Üniversitesi, Bilişim Enstitüsü, Bilişim Sistemleri Anabilim Dalı, 2012 - Continues

## Advising Theses

İKİZLER CİNBIŞ N., DUYGULU ŞAHİN P., Utilizing multiple instance learning for computer vision tasks, Post Graduate, F.ŞENER(Student), 2013

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

- I. **Collective Sports: A multi-task dataset for collective activity recognition**  
ZALLUHOĞLU C., İKİZLER CİNBIŞ N.  
IMAGE AND VISION COMPUTING, vol.94, 2020 (Journal Indexed in SCI)
- II. **Region based multi-stream convolutional neural networks for collective activity recognition**  
ZALLUHOĞLU C., İKİZLER CİNBIŞ N.  
Journal of Visual Communication and Image Representation, vol.60, pp.170-179, 2019 (Journal Indexed in SCI)
- III. **Histograms of sequences: a novel representation for human interaction recognition**  
CAVENT A., İKİZLER CİNBIŞ N.  
IET COMPUTER VISION, vol.12, is.6, pp.844-854, 2018 (Journal Indexed in SCI)
- IV. **Space-Time Tree Ensemble for Action Recognition and Localization**  
Ma S., ZHANG J., Sclaroff S., İKİZLER CİNBIŞ N., SÍGAL L.  
INTERNATIONAL JOURNAL OF COMPUTER VISION, vol.126, pp.314-332, 2018 (Journal Indexed in SCI)
- V. **Data-driven image captioning via salient region discovery**  
KİLİCKAYA M., AKKUŞ B. K., Çakici R., Erdem A., Erdem E., İKİZLER CİNBIŞ N.  
IET COMPUTER VISION, vol.11, is.6, pp.398-406, 2017 (Journal Indexed in SCI)
- VI. **Low-level features for visual attribute recognition: An evaluation**  
DANACI E. G., İKİZLER CİNBIŞ N.  
PATTERN RECOGNITION LETTERS, vol.84, pp.185-191, 2016 (Journal Indexed in SCI)
- VII. **Facial descriptors for human interaction recognition in still images**  
TANIŞIK G., ZALLUHOĞLU C., İKİZLER CİNBIŞ N.  
PATTERN RECOGNITION LETTERS, vol.73, pp.44-51, 2016 (Journal Indexed in SCI)
- VIII. **Automatic Description Generation from Images: A Survey of Models, Datasets, and Evaluation Measures**  
Bernardi R., Çakici 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)
- IX. **Two-person interaction recognition via spatial multiple instance embedding**  
Sener F., İKİZLER CİNBIŞ N.  
JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol.32, pp.63-73, 2015 (Journal Indexed in SCI)
- X. **The Effect Of Thrower's Ten Exercise Program On The Kinematics of Flick Pattern and Flick Distance In Elite Underwater Hockey**  
TOK D., BAŞ Ç., İKİZLER CİNBIŞ N., BAYRAKCI TUNAY V.  
MEDICINE AND SCIENCE IN SPORTS AND EXERCISE, vol.47, is.5, pp.962, 2015 (Journal Indexed in SCI)
- XI. **Ensemble of multiple instance classifiers for image re-ranking**  
Sener F., İKİZLER CİNBIŞ N.  
IMAGE AND VISION COMPUTING, vol.32, is.5, pp.348-362, 2014 (Journal Indexed in SCI)
- XII. **Web-Based Classifiers for Human Action Recognition**  
İKİZLER CİNBIŞ N., Sclaroff S.  
IEEE TRANSACTIONS ON MULTIMEDIA, vol.14, is.4, pp.1031-1045, 2012 (Journal Indexed in SCI)
- XIII. **Histogram of oriented rectangles: A new pose descriptor for human action recognition**  
İKİZLER N., DUYGULU P.  
IMAGE AND VISION COMPUTING, vol.27, is.10, pp.1515-1526, 2009 (Journal Indexed in SCI)
- XIV. **Searching for complex human activities with no visual examples**  
İKİZLER N., Forsyth D. A.

INTERNATIONAL JOURNAL OF COMPUTER VISION, vol.80, is.3, pp.337-357, 2008 (Journal Indexed in SCI)

XV. **Diagnosis of gastric carcinoma by classification on feature projections**

GÜVENİR H. A. , EMEKSİZ N., İKİZLER N., ÖRMECİ N.

ARTIFICIAL INTELLIGENCE IN MEDICINE, vol.31, is.3, pp.231-240, 2004 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Image Captioning with Unseen Objects**  
Berkan D., CİNBİŞ R. G. , İKİZLER CİNBİŞ N.  
British Machine Vision Conference, 9 - 12 September 2019
- II. **Zero-Shot Sign Language Recognition: Can Textual Data Uncover Sign Languages?**  
Bilge Y. C. , İKİZLER CİNBİŞ N., CİNBİŞ R. G.  
British Machine Vision Conference, 9 - 12 September 2019
- III. **Mask Guided Fusion for Group Activity Recognition in Images**  
Akar A., İKİZLER CİNBİŞ N.  
20th International Conference on Image Analysis and Processing (ICIAP), Trento, Italy, 9 - 13 September 2019, vol.11752, pp.282-291
- IV. **LEARNING VISUALLY CONSISTENT LABEL EMBEDDINGS FOR ZERO-SHOT LEARNING**  
Demirel B., CİNBİŞ R. G. , İKİZLER CİNBİŞ N.  
26th IEEE International Conference on Image Processing (ICIP), Taipei, Taiwan, 22 - 25 September 2019, pp.3656-3660
- V. **Unsupervised Video Summarization with Independently Recurrent Neural Networks**  
Yaliniz G., İKİZLER CİNBİŞ N.  
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- VI. **RecipeQA: A Challenge Dataset for Multimodal Comprehension of Cooking Recipes**  
Yagcioglu S., ERDEM İ. A. , ERDEM M. E. , İKİZLER CİNBİŞ N.  
Conference on Empirical Methods in Natural Language Processing (EMNLP) 2018, Bruksel, Belgium, 31 October 2018, pp.1358-1368
- VII. **Görsel Verilerde İnsan Hareket ve Etkileşimlerinin Analizi**  
İKİZLER CİNBİŞ N.  
Akıllı Sistemlerde Yenilikler ve Uygulamalar Konferansı, Adana, Turkey, 4 - 06 October 2018
- VIII. **Zero-Shot Object Detection by Hybrid Region Embedding**  
Berkan D., CİNBİŞ R. G. , İKİZLER CİNBİŞ N.  
British Machine Vision Conference, 3 - 07 September 2018
- IX. **Classification of human poses and orientations with deep learning**  
ATVAR A., İKİZLER CİNBİŞ N.  
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- X. **Attributes2Classname: A discriminative model for attribute-based unsupervised zero-shot learning**  
Demirel B., CİNBİŞ R. G. , İKİZLER CİNBİŞ N.  
International Conference on Computer Vision, 22 - 27 October 2017
- XI. **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 CİNBİŞ N., KELLER F., MUSCAT A., PLANK B.  
International Joint Conference on Artificial Intelligence, 19 - 25 August 2017
- XII. **Using deep multiple instance learning for action recognition in still images**  
BAŞ Ç., ZALLUHOĞLU C., İKİZLER CİNBİŞ N.  
2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, Turkey, 15 - 18 May 2017
- XIII. **Anomaly detection using improved background subtraction**

Bilge Y. C. , KAYA F., İKİZLER CİNBIŞ N., ÇELİKCAN U., SEVER H.

2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, Turkey, 15 - 18 May 2017

- XIV. **Re-evaluating Automatic Metrics for Image Captioning**  
KİLİCKAYA 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
- XV. **Leveraging Captions in the Wild to Improve Object Detection**  
KİLİCKAYA M., İKİZLER CİNBIŞ N., ERDEM M. E. , ERDEM İ. A.  
5th Workshop on Vision and Language (VL'16), 12 August 2016
- XVI. **Counting People in Crowded Scenes via Detection and Regression Fusion**  
ZALLUHOĞLU C., İKİZLER CİNBIŞ N.  
ICAR, 13 - 15 July 2016
- XVII. **Visual Saliency Estimation via Attribute Based Classifiers and Conditional Random Field**  
Demirel B., CİNBIŞ R. G. , İKİZLER CİNBIŞ N.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.861-864
- XVIII. **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
- XIX. **A multiple region selection based approach for scene recognition**  
EKİZ E., İKİZLER CİNBIŞ N.  
2015 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, Turkey, 16 - 19 May 2015
- XX. **A comparison of low level features for visual attribute recognition**  
DANACI E. G. , İKİZLER CİNBIŞ N.  
2015 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, Turkey, 16 - 19 May 2015
- XXI. **The effects of thrower s ten exercise program on the kinematics of flick pattern and flick distance in elite underwater hockey**  
TOK D., BAŞ Ç., İKİZLER CİNBIŞ N., BAYRAKCI TUNAY V.  
ACSM 62. Annual Meeting, 26 - 30 May 2015, vol.47, pp.961-970
- XXII. **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
- XXIII. **Recognizing human actions from noisy videos via multiple instance learning**  
ŞENER F., SAMET N., DUYGULU ŞAHİN P., İKİZLER CİNBIŞ N.  
2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Turkey, 24 - 26 April 2013
- XXIV. **Comparison of clustering methods for pose based video summarization**  
BAŞ Ç., İKİZLER CİNBIŞ N.  
2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Turkey, 24 - 26 April 2013
- XXV. **Action Recognition and Localization by Hierarchical Space-Time Segments**  
Ma S., Zhang J., İkizler-Cinbis N., Sclaroff S.  
IEEE International Conference on Computer Vision (ICCV), Sydney, Australia, 1 - 08 December 2013, pp.2744-2751
- XXVI. **Recognizing Human Actions in Images Using Segment and Contour Features**  
Tanisik G., GÜÇLÜ O., İKİZLER CİNBIŞ N.  
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

- XXVII. **Multiple instance learning for re ranking of web image search results**  
ŞENER F., İKİZLER CİNBIŞ N., DUYGULU ŞAHİN P.  
2012 20th Signal Processing and Communications Applications Conference (SIU), Mugla, Turkey, Turkey, 18 - 20 April 2012
- XXVIII. **Recognition of complex human activities by using sequential pyramid matching**  
CAVENT A., İKİZLER CİNBIŞ N.  
2012 20th Signal Processing and Communications Applications Conference (SIU), Mugla, Turkey, Turkey, 18 - 20 April 2012
- XXIX. **Unsupervised Learning of Discriminative Relative Visual Attributes**  
Ma S., Sclaroff S., İkizler-Cinbis N.  
12th European Conference on Computer Vision (ECCV), Florence, Italy, 7 - 13 October 2012, vol.7585, pp.61-70
- XXX. **On Recognizing Actions in Still Images via Multiple Features**  
Sener F., Bas C., İkizler-Cinbis N.  
12th European Conference on Computer Vision (ECCV), Florence, Italy, 7 - 13 October 2012, vol.7585, pp.263-272
- XXXI. **Object recognition and localization via spatial instance embedding**  
İkizler-Cinbis N., SCLAROFF S.  
2010 20th International Conference on Pattern Recognition, ICPR 2010, İstanbul, Turkey, 23 - 26 August 2010, pp.452-455
- XXXII. **Object, Scene and Actions: Combining Multiple Features for Human Action Recognition**  
İkizler-Cinbis N., Sclaroff S.  
11th European Conference on Computer Vision, Heraklion, Greece, 5 - 11 September 2010, vol.6311, pp.494-507
- XXXIII. **Learning Actions From the Web**  
İkizler-Cinbis N., Cinbis R. G. , Sclaroff S.  
12th IEEE International Conference on Computer Vision, Kyoto, Japan, 29 September - 02 October 2009, pp.995-1002
- XXXIV. **Human action recognition with line and flow histograms**  
İKİZLER N., CİNBIŞ R. G. , DUYGULU ŞAHİN P.  
2008 19th International Conference on Pattern Recognition, Tampa, FL, USA, 8 - 11 December 2008
- XXXV. **Recognizing actions from still images**  
İKİZLER N., CİNBIŞ R. G. , DUYGULU ŞAHİN P.  
2008 19th International Conference on Pattern Recognition, Tampa, FL, USA, 8 - 11 December 2008
- XXXVI. **Re ranking of image search results using a graph algorithm**  
SEVİL S., ZİTOUNİ H., ÖZKAN D., İKİZLER N., DUYGULU ŞAHİN P.  
2008 IEEE 16th Signal Processing, Communication and Applications Conference, Aydın, Turkey, 20 - 22 April 2008
- XXXVII. **Human action recognition using distribution of oriented rectangular patches**  
İKİZLER N., DUYGULU ŞAHİN P.  
Human Motion - Understanding, Modeling, Capture and Animation, Proceedings, Rio-De-Janeiro, Brazil, 14 September - 20 October 2007, vol.4814, pp.271-284
- XXXVIII. **Searching video for complex activities with finite state models**  
İkizler N., FORSYTH D.  
2007 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, CVPR'07, Minneapolis, MN, United States Of America, 17 - 22 June 2007
- XXXIX. **Person search made easy**  
İKİZLER N., DUYGULU ŞAHİN P.  
Proceedings of the 4th international conference on Image and Video Retrieval, Singapore, Singapore, 20 - 22 July 2005
- XL. **Improvement of face detection algorithms for news videos**  
İKİZLER N., DUYGULU ŞAHİN P.  
Proceedings of the IEEE 13th Signal Processing and Communications Applications Conference, 2005., Kayseri, Turkey, Turkey, 16 - 18 May 2005
- XLI. **Maximizing Benefit of Classifications Using Feature Intervals**

İKİZLER N., GÜVENİR H. A.

Knowledge-Based Intelligent Information and Engineering Systems, Oxford, England, 1 - 03 September 2003

**XLII. Feature Dependency in Benefit Maximization A Case Study in the Evaluation of Bank Loan Applications**

İKİZLER N., GÜVENİR H. A.

Twelfth Turkish Symposium on Artificial Intelligence and Neural Networks, Turkey, 2 - 04 July 2003

**XLIII. Mining Interesting Rules in Bank Loans Data**

İKİZLER N., GÜVENİR H. A.

Tenth Turkish Symposium on Artificial Intelligence and Neural Networks, Turkey, 21 - 22 June 2001

## **Supported Projects**

İKİZLER CİNBİŞ 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

## **Activities in Scientific Journals**

IET Computer Vision, Assistant Editor, 2016 - Continues

## **Citations**

Total Citations (WOS):487

h-index (WOS):9