

## Prof. Dr. NAZLI İKİZLER CİNBİŞ

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: E-8961-2013

Yoksis Araştırmacı ID: 178080

### Eğitim Bilgileri

Doktora, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Türkiye 2002 - 2008

Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Türkiye 2000 - 2002

Lisans, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Türkiye 1996 - 2000

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

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

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

### Araştırma Alanları

Bilgisayar Bilimleri, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma, Örüntü Tanıma ve Görüntü İşleme , Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2018 - Devam Ediyor

Yrd. Doç. Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - 2018

Öğretim Görevlisi Dr., Boston University, Mühendislik Fakültesi, Bilgisayar Müh, 2008 - 2010

Araştırma Görevlisi, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2000 - 2008

## Akademik İdari Deneyim

Hacettepe Üniversitesi, Bilişim Enstitüsü, Bilişim Sistemleri Anabilim Dalı, 2012 - Devam Ediyor

## Yönetilen Tezler

İKİZLER CİNBIŞ N., DUYGULU ŞAHİN P., Utilizing multiple instance learning for computer vision tasks, Yüksek Lisans, F.ŞENER(Öğrenci), 2013

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Mitigating background bias in self-supervised video representation learning**  
Akar A., Senturk U. U., İKİZLER CİNBIŞ N.  
SIGNAL IMAGE AND VIDEO PROCESSING, cilt.19, sa.1, 2025 (SCI-Expanded)
- II. **Tinysign: sign language recognition in low resolution settings**  
Huseyinoglu A., Bilge F. A., Bilge Y. C., İKİZLER CİNBIŞ N.  
SIGNAL IMAGE AND VIDEO PROCESSING, cilt.18, sa.10, ss.6881-6890, 2024 (SCI-Expanded)
- III. **Cross-lingual few-shot sign language recognition**  
Bilge Y. C., İKİZLER CİNBIŞ N., CİNBIŞ R. G.  
Pattern Recognition, cilt.151, 2024 (SCI-Expanded)
- IV. **Leveraging cross-resolution attention for effective extreme low-resolution video action recognition**  
Oguz O., İKİZLER CİNBIŞ N.  
Signal, Image and Video Processing, cilt.18, sa.1, ss.399-406, 2024 (SCI-Expanded)
- V. **Towards Zero-shot Sign Language Recognition**  
Bilge Y. C., CİNBIŞ R. G., İKİZLER CİNBIŞ N.  
IEEE Transactions on Pattern Analysis and Machine Intelligence, cilt.45, sa.1, ss.1217-1232, 2023 (SCI-Expanded)
- VI. **Comparison of 2D and 3D attention mechanisms for human (collective) activity recognition**  
ZALLUHOĞLU C., İKİZLER CİNBIŞ N.  
SIGNAL IMAGE AND VIDEO PROCESSING, cilt.16, sa.4, ss.865-872, 2022 (SCI-Expanded)
- VII. **Top-down and bottom-up attentional multiple instance learning for still image action recognition**  
BAŞ Ç., İKİZLER CİNBIŞ N.  
SIGNAL PROCESSING-IMAGE COMMUNICATION, cilt.104, 2022 (SCI-Expanded)
- VIII. **Merging Super Resolution and Attribute Learning for Low-Resolution Person Attribute Recognition**  
Abbaszadi R., İKİZLER CİNBIŞ N.  
IEEE ACCESS, cilt.10, ss.30436-30444, 2022 (SCI-Expanded)
- IX. **Multi-stream pose convolutional neural networks for human interaction recognition in images**  
Tanisik G., ZALLUHOĞLU C., İKİZLER CİNBIŞ N.  
SIGNAL PROCESSING-IMAGE COMMUNICATION, cilt.95, 2021 (SCI-Expanded)
- X. **Leveraging auxiliary image descriptions for dense video captioning**  
Boran E., Erdem A., İKİZLER CİNBIŞ N., Erdem E., Madhyastha P., Specia L.  
PATTERN RECOGNITION LETTERS, cilt.146, ss.70-76, 2021 (SCI-Expanded)
- XI. **Using independently recurrent networks for reinforcement learning based unsupervised video summarization**  
Yaliniz G., İKİZLER CİNBIŞ N.  
MULTIMEDIA TOOLS AND APPLICATIONS, cilt.80, sa.12, ss.17827-17847, 2021 (SCI-Expanded)
- XII. **Collective Sports: A multi-task dataset for collective activity recognition**  
ZALLUHOĞLU C., İKİZLER CİNBIŞ N.  
IMAGE AND VISION COMPUTING, cilt.94, 2020 (SCI-Expanded)
- XIII. **Region based multi-stream convolutional neural networks for collective activity recognition**  
ZALLUHOĞLU C., İKİZLER CİNBIŞ N.  
Journal of Visual Communication and Image Representation, cilt.60, ss.170-179, 2019 (SCI-Expanded)

- XIV. **Histograms of sequences: a novel representation for human interaction recognition**  
CAVENT A., İKİZLER-CİNBİŞ N.  
IET COMPUTER VISION, cilt.12, sa.6, ss.844-854, 2018 (SCI-Expanded)
- XV. **Space-Time Tree Ensemble for Action Recognition and Localization**  
Ma S., ZHANG J., Sclaroff S., İKİZLER-CİNBİŞ N., SİĞAL L.  
INTERNATIONAL JOURNAL OF COMPUTER VISION, cilt.126, ss.314-332, 2018 (SCI-Expanded)
- XVI. **Data-driven image captioning via salient region discovery**  
KİLİCKAYA M., AKKUŞ B. K., Cakici R., Erdem A., Erdem E., İKİZLER-CİNBİŞ N.  
IET COMPUTER VISION, cilt.11, sa.6, ss.398-406, 2017 (SCI-Expanded)
- XVII. **Low-level features for visual attribute recognition: An evaluation**  
DANACI E. G., İKİZLER-CİNBİŞ N.  
PATTERN RECOGNITION LETTERS, cilt.84, ss.185-191, 2016 (SCI-Expanded)
- XVIII. **Facial descriptors for human interaction recognition in still images**  
TANIŞIK G., ZALLUHOĞLU C., İKİZLER-CİNBİŞ N.  
PATTERN RECOGNITION LETTERS, cilt.73, ss.44-51, 2016 (SCI-Expanded)
- XIX. **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 CİNBİŞ N., Keller F., Muscat A., Plank B.  
JOURNAL OF ARTIFICIAL INTELLIGENCE RESEARCH, cilt.55, ss.409-442, 2016 (SCI-Expanded)
- XX. **Two-person interaction recognition via spatial multiple instance embedding**  
Sener F., İKİZLER-CİNBİŞ N.  
JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, cilt.32, ss.63-73, 2015 (SCI-Expanded)
- XXI. **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 CİNBİŞ N., BAYRAKCI TUNAY V.  
MEDICINE AND SCIENCE IN SPORTS AND EXERCISE, cilt.47, sa.5, ss.962, 2015 (SCI-Expanded)
- XXII. **Ensemble of multiple instance classifiers for image re-ranking**  
Sener F., İKİZLER-CİNBİŞ N.  
IMAGE AND VISION COMPUTING, cilt.32, sa.5, ss.348-362, 2014 (SCI-Expanded)
- XXIII. **Web-Based Classifiers for Human Action Recognition**  
İKİZLER-CİNBİŞ N., Sclaroff S.  
IEEE TRANSACTIONS ON MULTIMEDIA, cilt.14, sa.4, ss.1031-1045, 2012 (SCI-Expanded)
- XXIV. **Histogram of oriented rectangles: A new pose descriptor for human action recognition**  
İKİZLER N., Duygulu P.  
IMAGE AND VISION COMPUTING, cilt.27, sa.10, ss.1515-1526, 2009 (SCI-Expanded)
- XXV. **Searching for complex human activities with no visual examples**  
İKİZLER N., Forsyth D. A.  
INTERNATIONAL JOURNAL OF COMPUTER VISION, cilt.80, sa.3, ss.337-357, 2008 (SCI-Expanded)
- XXVI. **Diagnosis of gastric carcinoma by classification on feature projections**  
GÜVENİR H. A., EMEKSİZ N., İKİZLER N., ÖRMECİ N.  
ARTIFICIAL INTELLIGENCE IN MEDICINE, cilt.31, sa.3, ss.231-240, 2004 (SCI-Expanded)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **MaskSplit: Self-supervised Meta-learning for Few-shot Semantic Segmentation**  
Amac M. S., Sencan A., BARAN O. B., İKİZLER CİNBİŞ N., CİNBİŞ R. G.  
22nd IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), Hawaii, Amerika Birleşik Devletleri, 4 - 08 Ocak 2022, ss.428-438
- II. **Multi-Contrast MRI Segmentation Trained on Synthetic Images**  
Irmakci I., Unel Z. E., İKİZLER CİNBİŞ N., Bağcı U.

44th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2022, Glasgow, İngiltere, 11 - 15 Temmuz 2022, cilt.2022-July, ss.5030-5034

- III. **Red Carpet to Fight Club: Partially-supervised Domain Transfer for Face Recognition in Violent Videos**  
Bilge Y. C., Yucel M. K., CİNBIŞ R. G., İKİZLER CİNBIŞ N., DUYGULU ŞAHİN P.  
IEEE Winter Conference on Applications of Computer Vision (WACV), ELECTR NETWORK, 5 - 09 Ocak 2021, ss.3357-3368
- IV. **Image Captioning with Unseen Objects**  
Berkan D., CİNBIŞ R. G., İKİZLER CİNBIŞ N.  
British Machine Vision Conference, 9 - 12 Eylül 2019
- V. **Zero-Shot Sign Language Recognition: Can Textual Data Uncover Sign Languages?**  
Bilge Y. C., İKİZLER CİNBIŞ N., CİNBIŞ R. G.  
British Machine Vision Conference, 9 - 12 Eylül 2019
- VI. **Mask Guided Fusion for Group Activity Recognition in Images**  
Akar A., İKİZLER CİNBIŞ N.  
20th International Conference on Image Analysis and Processing (ICIAP), Trento, İtalya, 9 - 13 Eylül 2019, cilt.11752, ss.282-291
- VII. **Unsupervised Video Summarization with Independently Recurrent Neural Networks**  
Yaliniz G., İKİZLER CİNBIŞ N.  
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Türkiye, 24 - 26 Nisan 2019
- VIII. **LEARNING VISUALLY CONSISTENT LABEL EMBEDDINGS FOR ZERO-SHOT LEARNING**  
Demirel B., CİNBIŞ R. G., İKİZLER CİNBIŞ N.  
26th IEEE International Conference on Image Processing (ICIP), Taipei, Tayvan, 22 - 25 Eylül 2019, ss.3656-3660
- IX. **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, Belçika, 31 Ekim 2018, ss.1358-1368
- X. **Görsel Verilerde İnsan Hareket ve Etkileşimlerinin Analizi**  
İKİZLER CİNBIŞ N.  
Akıllı Sistemlerde Yenilikler ve Uygulamalar Konferansı, Adana, Türkiye, 4 - 06 Ekim 2018
- XI. **Zero-Shot Object Detection by Hybrid Region Embedding**  
Berkan D., CİNBIŞ R. G., İKİZLER CİNBIŞ N.  
British Machine Vision Conference, 3 - 07 Eylül 2018
- XII. **Classification of human poses and orientations with deep learning**  
ATVAR A., İKİZLER CİNBIŞ N.  
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018
- XIII. **Attributes2Classname: A discriminative model for attribute-based unsupervised zero-shot learning**  
Demirel B., CİNBIŞ R. G., İKİZLER CİNBIŞ N.  
International Conference on Computer Vision, 22 - 27 Ekim 2017
- 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 Ağustos 2017
- XV. **Using deep multiple instance learning for action recognition in still images**  
BAŞ Ç., ZALLUHOĞLU C., İKİZLER CİNBIŞ N.  
2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, Türkiye, 15 - 18 Mayıs 2017
- XVI. **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, Türkiye, 15 - 18

Mayıs 2017

- XVII. **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 Nisan 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 Ağustos 2016
- XIX. **Counting People in Crowded Scenes via Detection and Regression Fusion**  
ZALLUHOĞLU C., İKİZLER CİNBIŞ N.  
ICIAR, 13 - 15 Temmuz 2016
- XX. **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., Çakici R.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1977-1980
- XXI. **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, Türkiye, 16 - 19 Mayıs 2016, ss.861-864
- XXII. **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, Türkiye, 16 - 19 Mayıs 2015
- XXIII. **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, Türkiye, 16 - 19 Mayıs 2015
- XXIV. **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 Mayıs 2015, cilt.47, ss.961-970
- XXV. **Data driven image captioning with meta class based retrieval**  
KİLICKAYA M., ERDEM M. E., ERDEM İ. A., İKİZLER CİNBIŞ N., ÇAKICI R.  
2014 22nd Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, Türkiye, 23 - 25 Nisan 2014
- XXVI. **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, Türkiye, 24 - 26 Nisan 2013
- XXVII. **Comparison of clustering methods for pose based video summarization**  
BAŞ Ç., İKİZLER CİNBIŞ N.  
2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Türkiye, 24 - 26 Nisan 2013
- XXVIII. **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 Nisan 2013
- XXIX. **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, Avustralya, 1 - 08 Aralık 2013, ss.2744-2751
- XXX. **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, Türkiye, 18 - 20

Nisan 2012

- XXXI. **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, Türkiye, 18 - 20 Nisan 2012
- XXXII. **On Recognizing Actions in Still Images via Multiple Features**  
Sener F., Bas C., İkizler-Cinbis N.  
12th European Conference on Computer Vision (ECCV), Florence, İtalya, 7 - 13 Ekim 2012, cilt.7585, ss.263-272
- XXXIII. **Unsupervised Learning of Discriminative Relative Visual Attributes**  
Ma S., Sclaroff S., İkizler-Cinbis N.  
12th European Conference on Computer Vision (ECCV), Florence, İtalya, 7 - 13 Ekim 2012, cilt.7585, ss.61-70
- XXXIV. **Object recognition and localization via spatial instance embedding**  
İkizler-Cinbis N., SCLAROFF S.  
2010 20th International Conference on Pattern Recognition, ICPR 2010, İstanbul, Türkiye, 23 - 26 Ağustos 2010, ss.452-455
- XXXV. **Object, Scene and Actions: Combining Multiple Features for Human Action Recognition**  
İkizler-Cinbis N., Sclaroff S.  
11th European Conference on Computer Vision, Heraklion, Yunanistan, 5 - 11 Eylül 2010, cilt.6311, ss.494-507
- XXXVI. **Learning Actions From the Web**  
İkizler-Cinbis N., Cinbis R. G., Sclaroff S.  
12th IEEE International Conference on Computer Vision, Kyoto, Japonya, 29 Eylül - 02 Ekim 2009, ss.995-1002
- XXXVII. **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 Aralık 2008
- XXXVIII. **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 Aralık 2008
- XXXIX. **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, Türkiye, 20 - 22 Nisan 2008
- XL. **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, Brezilya, 14 Eylül - 20 Ekim 2007, cilt.4814, ss.271-284
- XLI. **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, Amerika Birleşik Devletleri, 17 - 22 Haziran 2007
- XLII. **Person search made easy**  
İKİZLER N., DUYGULU ŞAHİN P.  
Proceedings of the 4th international conference on Image and Video Retrieval, Singapore, Singapur, 20 - 22 Temmuz 2005
- XLIII. **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, Türkiye, 16 - 18 Mayıs 2005
- XLIV. **Maximizing Benefit of Classifications Using Feature Intervals**  
İKİZLER N., GÜVENİR H. A.  
Knowledge-Based Intelligent Information and Engineering Systems, Oxford, Birleşik Krallık, 1 - 03 Eylül 2003
- XLV. **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, Türkiye, 2 - 04 Temmuz 2003

### **XLVI. Mining Interesting Rules in Bank Loans Data**

İKİZLER N., GÜVENİR H. A.

Tenth Turkish Symposium on Artificial Intelligence and Neural Networks, Türkiye, 21 - 22 Haziran 2001

## **Desteklenen Projeler**

İKİZLER CİNBİŞ N., Yükseköğretim Kurumları Destekli Proje, ICCV 2017 konferansına katılım, 2017 - 2020

İKİZLER CİNBİŞ N., DUYGULU ŞAHİN P., ERDEM İ. A., ERDEM M. E., Yükseköğretim Kurumları Destekli Proje, Bozkrda Yapay Öğrenme Yaz Okulu 2017 Bilgisayarlı Görü ve Robotik, 2017 - 2018

## **Bilimsel Dergilerdeki Faaliyetler**

IET Computer Vision, Yardımcı Editör/Bölüm Editörü, 2016 - Devam Ediyor

## **Metrikler**

Yayın: 72

Atıf (WoS): 516

Atıf (Scopus): 830

H-İndeks (WoS): 11

H-İndeks (Scopus): 14

## **Akademi Dışı Deneyim**

Mantis Yazılım ve Danışmanlık A. Ş.

ASELSAN