

# Prof. PINAR DUYGULU ŞAHİN

## Personal Information

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## International Researcher IDs

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ScopusID: 23134573600

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## Education Information

Doctorate, Middle East Technical University, Faculty Of Engineering, Bilgisayar Mühendisliği, Turkey 1998 - 2003

Postgraduate, Middle East Technical University, Faculty Of Engineering, Bilgisayar Mühendisliği, Turkey 1996 - 1998

Undergraduate, Middle East Technical University, Faculty Of Engineering, Bilgisayar Mühendisliği, Turkey 1991 - 1996

## Foreign Languages

English, C1 Advanced

## Research Areas

Computer Sciences, Computer Vision, Computer Vision, Engineering and Technology

## Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2016 - 2017

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Bilimleri Mühendisliği Bölümü, 2015 - 2016

Assistant Professor, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Computer Engineering, 2004 - 2015

## Academic and Administrative Experience

Hacettepe Üniversitesi, Bilişim Enstitüsü, 2016 - Continues

Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2015 - 2016

## Advising Theses

DUYGULU ŞAHİN P., Model field particles with positional appearance learning for sports player tracking, Doctorate, S.BAYSAL(Student), 2016

DUYGULU ŞAHİN P., Mining web images for concept learning, Postgraduate, E.GÖLGE(Student), 2014

DUYGULU ŞAHİN P., Leveraging large scale data for video retrieval, Postgraduate, A.ARMAĞAN(Student), 2014  
DUYGULU ŞAHİN P., Activity analysis for assistive systems, Postgraduate, A.İŞCEN(Student), 2014  
DUYGULU ŞAHİN P., Segmentation based Ottoman text and matching based kufic image analysis, Postgraduate, H.ADIGUZEL(Student), 2013  
DUYGULU ŞAHİN P., Perception, Learning and Use of Tool Affordances on Humanoid Robots, Postgraduate, Y.ÇALIŞKAN(Student), 2013  
DUYGULU ŞAHİN P., İKİZLER CİNBIŞ N., Utilizing multiple instance learning for computer vision tasks, Postgraduate, F.ŞENER(Student), 2013  
DUYGULU ŞAHİN P., Naming faces on the web, Postgraduate, H.ZİTOUNİ(Student), 2010  
DUYGULU ŞAHİN P., Tag expansion methods for photo-sharing websites, Postgraduate, S.GÜL(Student), 2010  
DUYGULU ŞAHİN P., A line-based representation for matching words, Postgraduate, E.FATİH(Student), 2009  
DUYGULU ŞAHİN P., Computer vision based behavior analysis, Doctorate, Z.YÜCEL(Student), 2009  
DUYGULU ŞAHİN P., Vision based behavior recognition of laboratory animals for drug analysis and testing, Postgraduate, S.SANDIKCI(Student), 2009  
DUYGULU ŞAHİN P., Understanding human motion: Recognition and retrieval of human activities, Doctorate, N.İKİZLER(Student), 2008  
DUYGULU ŞAHİN P., Detection and tracking of repeated sequences in videos, Postgraduate, T.CAN(Student), 2007  
DUYGULU ŞAHİN P., A New representation for matching words, Postgraduate, E.ATAER(Student), 2007  
DUYGULU ŞAHİN P., A graph based approach for finding people in news, Postgraduate, D.ÖZKAN(Student), 2007

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Learning actionness from action/background discrimination**  
Yalcinkaya Simsek O., Russakovsky O., DUYGULU ŞAHİN P.  
SIGNAL IMAGE AND VIDEO PROCESSING, vol.17, no.4, pp.1599-1606, 2023 (SCI-Expanded)
- II. **Multi-task learning for gland segmentation**  
Rezazadeh I., DUYGULU ŞAHİN P.  
SIGNAL IMAGE AND VIDEO PROCESSING, vol.17, no.1, pp.1-9, 2023 (SCI-Expanded)
- III. **How robust are discriminatively trained zero-shot learning models?**  
Yucel M. K., CİNBIŞ R. G., DUYGULU ŞAHİN P.  
IMAGE AND VISION COMPUTING, vol.119, 2022 (SCI-Expanded)
- IV. **I-ME: iterative model evolution for learning from weakly labeled images and videos**  
YALÇINKAYA Ö., Golge E., DUYGULU ŞAHİN P.  
MACHINE VISION AND APPLICATIONS, vol.31, no.5, 2020 (SCI-Expanded)
- V. **GANILLA: Generative adversarial networks for image to illustration translation**  
Hicsonmez S., SAMET N., AKBAŞ E., DUYGULU ŞAHİN P.  
IMAGE AND VISION COMPUTING, vol.95, 2020 (SCI-Expanded)
- VI. **Sentioscope: A Soccer Player Tracking System Using Model Field Particles**  
Baysal S., DUYGULU ŞAHİN P.  
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.26, no.7, pp.1350-1362, 2016 (SCI-Expanded)
- VII. **Classifying fonts and calligraphy styles using complex wavelet transform**  
Bozkurt A., Duygulu P., Cetin A. E.  
SIGNAL IMAGE AND VIDEO PROCESSING, vol.9, pp.225-234, 2015 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **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 January 2021, pp.3357-3368

- II. **Learning Semantic Concepts from Weakly Labeled Data**  
Hicsonmez S., Rezazadeh I., Unal D., Yaruktepe D., DUYGULU ŞAHİN P.  
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- III. **Who Draw This? Caricaturist Recognition using Convolutional Neural Networks**  
Hicsonmez S., SAMET N., Akba E., DUYGULU ŞAHİN P.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- IV. **Action Recognition with Prototypes**  
YALÇINKAYA Ö., DUYGULU ŞAHİN P.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- V. **Could We Create A Training Set For Image Captioning Using Automatic Translation?**  
SAMET N., Hicsonmez S., DUYGULU ŞAHİN P., AKBAŞ E.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- VI. **Turkish Sign Language Recognition Application Using Motion History Image**  
Yalcinkaya O., Atvar A., DUYGULU ŞAHİN P.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.801-804
- VII. **Rock-Paper-Scissors Game against Computer**  
Tekeli N., Ogul B. B., DUYGULU ŞAHİN P.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.489-492
- VIII. **Image-Based Facial Expression Detection**  
Akyol F., DUYGULU ŞAHİN P.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.609-612
- IX. **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
- X. **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
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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

**XVI. 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

## 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

ÇELİKCAN U., İKİZLER CİNBIŞ N., ÖZSOY A., EFE M. Ö., GÜRÇAY H., ERDEM İ. A., DUYGULU ŞAHİN P., Project Supported by Higher Education Institutions, Bilgisayar Mühendisliği Yüksek Başarımlı Hesaplama Eğitim ve Araştırma Laboratuvarı, 2017 - 2020

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

DUYGULU ŞAHİN P., Project Supported by Higher Education Institutions, Çocuk kitaplarını resimleyen çizimlerin stillerinin tanınması için derin öğrenme yöntemleri, 2017 - 2017

DUYGULU ŞAHİN P., Project Supported by Higher Education Institutions, Büyük ölçekli video analizi, 2016 - 2016

DUYGULU ŞAHİN P., TUBITAK Project, 109E006 Osmanlıca Belgelerin Görsel ve Metinsel Analizi ve Erisimi, 2009 - 2012

DUYGULU ŞAHİN P., TUBITAK Project, 104E065 Çoğul Ortam Veri Madenciliği Çok Kipli Verinin Daha İyi Erişim ve Değerlendirme Amaçlı Tümlenimi, 2005 - 2010

## Metrics

Publication: 23

Citation (WoS): 28

Citation (Scopus): 161

H-Index (WoS): 2

H-Index (Scopus): 4