

## Prof. Hazım Kemal Ekenel

### Personal Information

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### Biography

Dr. Ekenel is an Associate Professor at the Department of Computer Engineering in Istanbul Technical University, where he directs the [?Smart Interaction, Mobile Intelligence, and Multimedia Technologies \(SiMiT\) Research Group?](#). He received his B.Sc. and M.Sc. degrees in Electrical and Electronic engineering from Bogazici University in 2001 and 2003, respectively, and Ph.D. degree in Computer Engineering from the University of Karlsruhe (TH)/Karlsruhe Institute of Technology in 2009.

He has played a leading role in face analysis tasks in several large-scale European and German research projects. He was the task leader for face recognition in the Computers in the Human Interaction Loop (CHIL) project, an Integrated Project funded under the European Commission's Sixth Framework Programme with a budget of 24 million EUR. He organized international face recognition evaluations within the CLEAR evaluation campaigns (<http://www.clear-evaluation.org/>). He has been responsible for face recognition system in the German SFB588 Humanoid Robots project. He has been the task leader of face recognition in the French-German Quaero project funded by French State Agency for Innovation with a budget of 200 million EUR. He developed the best performing face detection system in the CHIL 2004, 2005 evaluations and the best performing face recognition system in the CLEAR 2006, 2007 evaluations. In addition, his team was ranked third among the 14 research institutions worldwide and had the first place among the six European teams participating to the Facial Expression Recognition and Analysis Challenge in 2011.

In 2008, he received the EBF European Biometric Research Award. The generality, speed, and robustness of his approach facilitated several deployments for a wide variety of real-world applications, such as entrance monitoring and person retrieval. Several demonstration sessions have been held in international conferences and events. He received the Best Demo Award at the IEEE International Conference on Automatic Face and Gesture Recognition in 2008. His face analysis technology has also been used by several research labs and companies. He was nominated for a prestigious German applied research prize by Technicolor SA (formerly Thomson SA), Exalead, Fraunhofer IOSB, and Videmo Intelligente Videoanalyse in 2010. After completing his doctoral studies, he was promoted to group leader position at the KIT. He is a recipient of a Young Investigator Grant that he was awarded within the German Excellence Initiative, with which he has founded the Facial Image Processing and Analysis (<http://face.cs.kit.edu/>) group at the Department of Computer Science in Karlsruhe Institute of Technology.

Since January 2011, he has been coordinating the Benchmarking Facial Image Analysis Technologies (BeFIT) initiative. He is the primary organizer of the BeFIT workshops 2011 and 2012. Together with Dr. Gunes from QMUL, he organized the International Workshop on Affective Computing for Mobile HCI (<http://www.ac4mobhici2012.itu.edu.tr/>) that took place in Istanbul, Turkey. He has been on the program committee for a number of international conferences and workshops including ICCV, ACCV, FG, ICME, BTAS, and AVSS.

### Education Information

Doctorate, Universitat Karlsruhe, Bilgisayar Mühendisliği, Germany 2004 - 2009

Post Graduate, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2001 - 2003

Under Graduate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1997 - 2001

## Foreign Languages

English

## Dissertations

Doctorate, A robust face recognition algorithm for real-world applications, Universitat Karlsruhe, Bilgisayar Müh., Bilgisayar Müh., 2009

Post Graduate, Expression and Illumination Insensitive Independent Components and Wavelet Subbands for Face Recognition, Boğaziçi Üniversitesi, Elektrik-Elektronik Müh., Elektrik-Elektronik Müh., 2003

## Research Areas

Technical Sciences, Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Pattern Recognition and Image Processing

## Academic Titles / Tasks

Associate Professor, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2014 - Continues

Assistant Professor, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2012 - 2014

Lecturer PhD, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - 2012

Lecturer PhD, Universitaet Fridericiana Zu Karlsruhe, 2009 - 2011

Research Assistant, Universitaet Fridericiana Zu Karlsruhe, 2004 - 2009

## Professional Experience

Head of International Office, İstanbul Teknik Üniversitesi, 2013 - 2016

## Supported Projects

Ekenel H. K. , Eyiokur F. İ. , Yaman D., Project Supported by Higher Education Institutions, Biyometrik Tanıma Amaçlı Kulak İmgelerinin Kullanımı, 2017 - 2019

Ekenel H. K. , Project Supported by Higher Education Institutions, Apparent Age Estimation Using Ensemble of Deep Learning Models, 2016 - 2018

Ekenel H. K. , Project Supported by Higher Education Institutions, Otomatik Yüz Analizine Dayalı Engellilere ve Hastalara Yardımcı Teknolojiler, 2014 - 2018

Ekenel H. K. , Project Supported by Higher Education Institutions, A Face Recognition Based Multiplayer Mobile Game Application, 2014 - 2018

Ekenel H. K. , Project Supported by Higher Education Institutions, Real Time Face Swapping in Video Sequences, 2012 -

2018

Ekenel H. K. , Project Supported by Higher Education Institutions, Evrişimsel Sinir Ağı Öznelikleri ile Kişiyi Yeniden Tanıma, 2016 - 2016

Ekenel H. K. , Project Supported by Higher Education Institutions, İnsan Makine Etkileşimi için Otomatik Yüz Analizi, 2012 - 2016

## Scientific Refereeing

Image and Vision Computing, SCI Journal, July 2017

IEEE Transactions on Affective Computing, SCI Journal, June 2017

IEEE Transactions on Circuits and Systems for Video Technology, SCI Journal, May 2017

IEEE Transactions on Circuits and Systems for Video Technology , SCI Journal, April 2017

Pattern Recognition Letters, SCI Journal, March 2017

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, March 2017

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, March 2017

IEEE Transactions on Affective Computing, SCI Journal, November 2016

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, November 2016

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, August 2016

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, May 2016

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, May 2016

Image and Vision Computing, SCI Journal, April 2016

Multimedia Tools and Applications, SCI Journal, February 2016

IEEE Transactions on Information Forensics and Security, SCI Journal, January 2016

IEEE Transactions on Information Forensics and Security, SCI Journal, April 2015

Pattern Recognition Letters, SCI Journal, March 2015

IEEE Transactions on Image Processing, SCI Journal, August 2014

Image and Vision Computing, SCI Journal, October 2013

Multimedia Tools and Applications, SCI Journal, August 2013

IEEE Transactions on Image Processing, SCI Journal, August 2013

IEEE Transactions on Image Processing, SCI Journal, April 2013

Image and Vision Computing, SCI Journal, November 2012

Image and Vision Computing, SCI Journal, October 2012

IEEE Transactions on Image Processing, SCI Journal, September 2012

IEEE Transactions on Image Processing, SCI Journal, July 2012

Multimedia Tools and Applications, SCI Journal, January 2012

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, September 2011

Image and Vision Computing, SCI Journal, August 2011

Image and Vision Computing, SCI Journal, July 2011

Multimedia Tools and Applications, SCI Journal, July 2011

Multimedia Tools and Applications, SCI Journal, May 2011

Multimedia Tools and Applications, SCI Journal, June 2010

Computer Vision and Image Understanding, SCI Journal, September 2007

Computer Vision and Image Understanding, SCI Journal, August 2007

## Edit Congress and Symposium Activities

25. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Moderator, Antalya, Turkey, 2017

25th Signal Processing and Communication Application Conference (SIU), Attendee, Antalya, Turkey, 2017

ACM ICMI Facial Expressions in the Wild Workshop (EmotiW), Attendee, Tôkyô, Japan, 2016

International Workshop on Intelligent Educational Systems, Technology-enhanced Learning and Technology Transfer Models (INTEL-EDU), Attendee, Praha, Czech Republic, 2016

15th International Conference of the Biometrics Special Interest Group (BIOSIG), Attendee, Darmstadt, Germany, 2016

CVPR Biometrics Workshop, Attendee, Nevada, United States Of America, 2016

CVPR ChaLearn Looking at People and Faces of the World: Face Analysis Workshop and Challenge, Attendee, Nevada, United States Of America, 2016

24th Signal Processing and Communication Application Conference (SIU), Attendee, Zonguldak, Turkey, 2016

TIPTEKNO'15, Attendee, Muğla, Turkey, 2015

2015 IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Attendee, Massachusetts, United States Of America, 2015

International Conference on Biometrics (ICB), Attendee, Phuket, Thailand, 2015

IEEE International Conference on Automatic Face and Gesture Recognition (FG), Attendee, Ljubljana, Slovenia, 2015

10th International Conference on Artificial Intelligence Applications and Innovations (AIAI), Attendee, Ródos, Greece, 2014

22th Signal Processing and Communication Application Conference (SIU), Attendee, Trabzon, Turkey, 2014

2nd International Workshop on Emotion Representation, Analysis and Synthesis in Continuous Time and Space (EmoSPACE), Attendee, Shanghai, China, 2013

International Conference on Computer Vision Theory and Applications (VISAPP), Attendee, Roma, Italy, 2012

1st IEEE Intl. Workshop on Benchmarking Facial Image Analysis Technologies (BeFIT 2011), Attendee, Barcelona, Spain, 2011

19th Signal Processing and Communications Applications Conference (SIU), Attendee, Turkey, 2011

3rd International Workshop on Automated Information Extraction in Media Production (AIEMPro'10), Attendee, Firenze, Italy, 2010

International Conference on Pattern Recognition (ICPR'10), Attendee, İstanbul, Turkey, 2010

International Conference on Biometrics (ICB'09), Attendee, Sassari, Italy, 2009

TRECVID Evaluation Workshop, Attendee, Maryland, United States Of America, 2008

8th IEEE Int. Conference on Face and Gesture Recognition, Attendee, Amsterdam, Netherlands, 2008

16th Signal Processing and Communications Applications Conference (SIU), Attendee, Turkey, 2008

TRECVID Evaluation Workshop, Attendee, Maryland, United States Of America, 2007

International Conference on Computer Vision (ICCV'07), Attendee, Rio De Janeiro, Brazil, 2007

IEEE International Conference on Multimedia & Expo, Attendee, Beijing, China, 2007

15th Signal Processing and Communications Applications (SIU), Attendee, Eskişehir, Turkey, 2007

CVPR Biometrics Workshop, Attendee, Minnesota, United States Of America, 2007

CLEAR Evaluation Workshop, Attendee, Maryland, United States Of America, 2007

International Conference on Computer Vision Systems, ICVS 2007, Attendee, Bielefeld, Germany, 2007

International Conference on Computer Vision Systems, ICVS 2007,, Attendee, Bielefeld, Germany, 2007

2nd Intl. Workshop on Human-Centered Robotics Systems 2006, Attendee, München, Germany, 2006

CVPR Biometrics Workshop, Attendee, New York, United States Of America, 2006

CLEAR Evaluation Workshop, Attendee, Southampton, United Kingdom, 2006

7th International Conference Automatic Face and Gesture Recognition (FG2006), Attendee, Southampton, United Kingdom, 2006

14th Signal Processing and Communications Applications (SIU), Attendee, Antalya, Turkey, 2006

13th European Signal Processing Conference (EUSIPCO 2005), Attendee, Turkey, 2005

11th Signal Processing and Communications Applications Conference (SIU), Attendee, Turkey, 2003

National Conference on Turkish Linguistics, Attendee, Eskişehir, Turkey, 2003

10th Signal Processing and Communications Applications Conference (SIU), Attendee, Denizli, Turkey, 2002

XVI. National Conference on Turkish Linguistics, Attendee, Ankara, Turkey, 2002

## Citations

Total Citations (WOS):513

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