

## **Asst. Prof. MUSTAFA BERKAY YILMAZ**

### **Personal Information**

**Email:** berkayyilmaz@akdeniz.edu.tr

**Web:** <https://avesis.akdeniz.edu.tr/berkayyilmaz>

### **International Researcher IDs**

ORCID: 0000-0003-0320-3957

Publons / Web Of Science ResearcherID: P-1017-2015

ScopusID: 35104029300

Yoksis Researcher ID: 257499

### **Education Information**

Post Doctorate, Université du Québec: Ecole de technologie supérieure, Département De Génie De La Production Automatisée, Département De Génie Logiciel Et Des Technologies De L'information, Canada 2015 - 2016

Post Doctorate, Université Paris-Sud: Paris XI, Télécom Sudparis, France 2015 - 2015

Doctorate, Sabanci University, Faculty Of Engineering And Natural Sciences, Bilgisayar Bilimi Ve Mühendisliği, Turkey 2009 - 2015

Postgraduate, Sabanci University, Faculty Of Engineering And Natural Sciences, Mekatronik Mühendisliği, Turkey 2007 - 2009

Undergraduate, Bahcesehir University, Faculty Of Engineering, Bilgisayar Mühendisliği, Turkey 2003 - 2007

### **Foreign Languages**

Russian, B1 Intermediate

English, C1 Advanced

### **Dissertations**

Doctorate, Offline signature verification with user-based and global classifiers of local features, Sabanci University, Mühendislik Ve Doğa Bilimleri Fakültesi, Bilgisayar Bilimi Ve Mühendisliği, 2015

Postgraduate, Statistical facial feature extraction and lip segmentation, Sabanci University, Mühendislik Ve Doğa Bilimleri Fakültesi, Mekatronik Mühendisliği, 2009

### **Research Areas**

Computer Sciences, Computer Vision, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Learning, Pattern Recognition and Image Processing, Engineering and Technology

### **Academic Titles / Tasks**

Assistant Professor, Akdeniz University, Faculty of Engineering, Bilgisayar Müh., 2016 - Continues

## Courses

Bilgisayar Programlama II, Undergraduate, 2020 - 2021, 2019 - 2020  
Mobile Programming, Undergraduate, 2020 - 2021, 2019 - 2020  
Computer Networks, Undergraduate, 2020 - 2021, 2019 - 2020  
Biometrics, Doctorate, 2020 - 2021  
Bilgisayar Programlama I, Undergraduate, 2020 - 2021, 2019 - 2020  
Image Processing, Postgraduate, 2020 - 2021, 2019 - 2020  
Introduction to Image Processing, Undergraduate, 2020 - 2021, 2019 - 2020  
Principles of User Interface Design, Undergraduate, 2020 - 2021, 2019 - 2020  
Computer Networks, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Bilgisayar Programlama II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
SEMINAR, Postgraduate, 2017 - 2018  
Introduction to Pattern Recognition, Undergraduate, 2018 - 2019  
Bilgisayar Programlama I, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
PATTERN RECOGNITION, Postgraduate, 2017 - 2018  
Principles of User Interface Design, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Pattern Recognition, Postgraduate, 2016 - 2017

## Jury Memberships

Post Graduate, Post Graduate, Akdeniz Üniversitesi, December, 2021

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

- I. **Load2Load: Day-ahead load forecasting at aggregated level**  
YILMAZ M. B.  
Turkish Journal of Electrical Engineering and Computer Sciences, vol.30, no.7, pp.2636-2653, 2022 (SCI-Expanded)
- II. **A Deep Neural Network-Assisted Approach to Enhance Short-Term Optimal Operational Scheduling of a Microgrid**  
Yaprakdal F., YILMAZ M. B., BAYSAL M., Anvari-Moghaddam A.  
SUSTAINABILITY, vol.12, no.4, 2020 (SCI-Expanded)
- III. **Score level fusion of classifiers in off-line signature verification**  
Yilmaz M. B., Yanikoglu B.  
INFORMATION FUSION, vol.32, pp.109-119, 2016 (SCI-Expanded)
- IV. **Facial feature extraction using a probabilistic approach**  
Yilmaz M. B., Erdogan H., Unel M.  
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.27, no.6, pp.678-693, 2012 (SCI-Expanded)

## Books & Book Chapters

- I. **Probabilistic Facial Feature Extraction Using Joint Distribution of Location and Texture Information**  
YILMAZ M. B., Erdoğan H., Ünel M.  
in: Lecture Notes in Computer Science, Bebis G. et al., Editor, Springer-Verlag , Berlin, pp.1171-1180, 2009

## Refereed Congress / Symposium Publications in Proceedings

- I. **Recurrent Binary Patterns and CNNs for Offline Signature Verification**  
YILMAZ M. B., Ozturk K.

Future Technologies Conference (FTC), San-Francisco, Costa Rica, 24 - 25 October 2019, vol.1070, pp.417-434

- II. **Distributed Nonlinear Model Predictive Control and Reinforcement Learning**  
Saeed I., Alpcan T., Erfani S. M., YILMAZ M. B.  
Australian and New Zealand Control Conference (ANZCC), Auckland, New Zealand, 27 - 29 November 2019, pp.255-257
- III. **Hybrid User-Independent and User-Dependent Offline Signature Verification with a Two-Channel CNN**  
YILMAZ M. B., Ozturk K.  
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), Utah, United States Of America, 18 - 22 June 2018, pp.639-647
- IV. **Methods of pathology detection by speech analysis: Survey Konuşma Analiziyle Hastalık Tespit Yöntemleri: İnceleme**  
YILMAZ M. B., EL YACOUBI M. A.  
2nd International Conference on Computer Science and Engineering, UBMK 2017, Antalya, Turkey, 5 - 08 October 2017, pp.28-33
- V. **A Comparison of Classification Approaches for Deep Face Recognition**  
Ozturk K., YILMAZ M. B.  
2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 5 - 08 October 2017, pp.227-232
- VI. **Pathology Detection by Speech Analysis An Overview**  
YILMAZ M. B., EL YACOUBI M. A., GARCÍA S., MATEO C. G.  
16th Conference of the International Clinical Linguistics and Phonetics Association, 16 - 19 June 2016
- VII. **Turkish labeled text corpus**  
ÖZTÜRK S., SANKUR B., GÜNGÖR T., YILMAZ M. B., KÖROĞLU B., AĞIN O., İŞBİLEN M., ULAŞ Ç., AHAT M.  
Signal Processing and Communications Applications Conference (SIU), 2014 22nd, Turkey, 23 April 2014
- VIII. **Effect of alignment and multiple-scale features in offline signature verification**  
YILMAZ M. B., YANIKOĞLU YEŞİLYURT A. B.  
Signal Processing and Communications Applications Conference (SIU), 2012 20th, Turkey, 18 April 2012
- IX. **Offline signature verification using classifier combination of HOG and LBP features**  
YILMAZ M. B., Yanikoğlu B., Tirkaz Ç., Kholmatov A.  
International Joint Conference on Biometrics, Washington, United States Of America, 11 October 2011, pp.1-7
- X. **Improving speech recognition with audio-visual tandem classifiers and their fusions**  
TOPKAYA İ. S., ŞEN M. U., YILMAZ M. B., Erdoğan H.  
Signal Processing and Communications Applications (SIU), 2011 IEEE 19th Conference on, Turkey, 20 April 2011
- XI. **Using shape priors for improved lip segmentation**  
YILMAZ M. B., Erdoğan H., Ünel M.  
Signal Processing and Communications Applications Conference (SIU), 2010 IEEE 18th, Turkey, 22 April 2010
- XII. **Statistical facial feature extraction using joint distribution of location and texture information**  
YILMAZ M. B., Erdoğan H., Ünel M.  
Signal Processing and Communications Applications Conference, 2009, SIU 2009, IEEE 17th, Turkey, 9 - 11 April 2009
- XIII. **Lip segmentation using adaptive color space training**  
Özgür E., YILMAZ M. B., Karabalkan H., Erdoğan H., Ünel M.  
International Conference on Auditory-Visual Speech Processing, Queensland, Australia, 26 - 29 September 2008, pp.219

## Supported Projects

YILMAZ M. B., TUBITAK Project, Development and Implementation of Handwriting Recognition Technology Used in Smart Classes, 2014 - 2015

YILMAZ M. B., TUBITAK Project, Intelligent Content Analysis, 2013 - 2014

YILMAZ M. B., TUBITAK Project, Novel Approaches in Audio-Visual Speech Recognition, 2007 - 2010

## Scientific Refereeing

EXPERT SYSTEMS WITH APPLICATIONS, SCI Journal, January 2024

INFORMATION SCIENCES, SCI Journal, July 2023

INFORMATION SCIENCES, SCI Journal, January 2023

INFORMATION SCIENCES, SCI Journal, January 2023

INFORMATION SCIENCES, SCI Journal, November 2022

INFORMATION SCIENCES, SCI Journal, September 2022

International Journal of Energy Research, SCI Journal, February 2021

IEEE Transactions on Multimedia, SCI Journal, October 2020

Information Sciences, SCI Journal, September 2020

Information Fusion, SCI Journal, September 2020

IEEE Transactions on Multimedia, SCI Journal, August 2020

Information Fusion, SCI Journal, August 2020

Annals of Robotics and Automation, SCI Journal, July 2020

IEEE Access, SCI Journal, April 2020

Neurocomputing, SCI Journal, July 2019

Neurocomputing, SCI Journal, April 2019

Information Sciences, SCI Journal, February 2019

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, National Scientific Refreed Journal, December 2018

Information Sciences, SCI Journal, November 2018

Information Sciences, SCI Journal, July 2018

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, National Scientific Refreed Journal, June 2018

Journal of Computational Methods in Sciences and Engineering, SCI Journal, April 2018

IEEE Transactions on Image Processing, SCI Journal, March 2018

Information Sciences, SCI Journal, March 2018

Information Sciences, SCI Journal, December 2017

Information Sciences, SCI Journal, June 2017

Information Sciences, SCI Journal, April 2017

Pattern Recognition, SCI Journal, February 2016

Information Sciences, SCI Journal, March 2013

## Scientific Consultations

Antalya Teknokent A.Ş., Scientific Consultancy, Akdeniz University, Faculty Of Engineering, Bilgisayar Müh., Turkey, 2017 - Continues

## Metrics

Publication: 18

Citation (WoS): 59

Citation (Scopus): 145

H-Index (WoS): 4

H-Index (Scopus): 5

## **Congress and Symposium Activities**

ACM Multimedia 2013, Attendee, Barcelona, Spain, 2013

## **Scholarships**

2224-A - Yurt Dışı Bilimsel Etkinliklere Katılımı Destekleme Programı, TUBITAK, 2018 - 2018

2219 YURT DIŐI DOKTORA SONRASI ARAŐTIRMA, TUBITAK, 2015 - 2016

Fransa Büyükelçiliđi Doktora Sonrası AraŐtırma Bursu, Official Institutions of Foreign Countries, 2015 - 2015

## **Awards**

YILMAZ M. B., Ulusal Bilgisayar Olimpiyatı Akdeniz Bölge Birinciliđi, TÜBİTAK, June 2002