

## Asst. Prof. BUSE MELİS ÖZYILDIRIM

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-1960-3787

Publons / Web Of Science ResearcherID: E-9139-2018

Yoksis Researcher ID: 41148

### Education Information

Doctorate, Cukurova University, Fen Bilimleri, Elektrik- Elektronik Mühendisliği, Turkey 2012 - 2015

Postgraduate, Cukurova University, Fen Bilimleri, Bilgisayar Mühendisliği, Turkey 2010 - 2012

Undergraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Bilgisayar Mühendisliği, Turkey 2006 - 2010

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, A new classifier topology ? generalized classifier neural network and its hardware implementations, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, 2015

Postgraduate, An error correcting code based SVM approach for multiclass classification, Cukurova University, Fen Bilimleri, Bilgisayar Mühendisliği, 2012

### Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2018 - Continues

Assistant Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2016 - 2018

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

#### I. Deep Convolutional Generalized Classifier Neural Network

Sarigul M., ÖZYILDIRIM B. M., AVCI M.

NEURAL PROCESSING LETTERS, vol.51, no.3, pp.2839-2854, 2020 (SCI-Expanded)

- II. **Differential convolutional neural network**  
Sarigul M., ÖZYILDIRIM B. M., AVCI M.  
NEURAL NETWORKS, vol.116, pp.279-287, 2019 (SCI-Expanded)
- III. **PATTERN LAYER REDUCTION FOR A GENERALIZED REGRESSION NEURAL NETWORK BY USING A SELF-ORGANIZING MAP**  
KARTAL S., ORAL M., ÖZYILDIRIM B. M.  
INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS AND COMPUTER SCIENCE, vol.28, no.2, pp.411-424, 2018 (SCI-Expanded)
- IV. **One pass learning for generalized classifier neural network**  
Özyıldırım B. M., AVCI M.  
NEURAL NETWORKS, vol.73, pp.70-76, 2016 (SCI-Expanded)
- V. **Logarithmic learning for generalized classifier neural network**  
Özyıldırım B. M., AVCI M.  
NEURAL NETWORKS, vol.60, pp.133-140, 2014 (SCI-Expanded)
- VI. **Generalized classifier neural network**  
Özyıldırım B. M., AVCI M.  
NEURAL NETWORKS, vol.39, pp.18-26, 2013 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Kamera Görüntüsü Tabanlı Kömür Tozu Patlayabilirlik Ölçme Sistemi**  
ÜRÜNVEREN A., ÖZYILDIRIM B. M., AVCI M., URAL S.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.33, no.4, pp.123-132, 2018 (Peer-Reviewed Journal)
- II. **Genelleştirilmiş regresyon yapay sinir ağı örüntü katman büyüklüğünü azaltmak için kümeleme tabanlı bir yaklaşım**  
ORAL M., KARTAL S., ÖZYILDIRIM B. M.  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, 2018 (Peer-Reviewed Journal)
- III. **An Empirical Study of the Extreme Learning Machine for Twitter Sentiment Analysis**  
ÇOBAN Ö., ÖZYILDIRIM B. M., ÖZEL S. A.  
International Journal of Intelligent Systems and Applications in Engineering, vol.6, no.3, pp.178-184, 2018 (Peer-Reviewed Journal)
- IV. **A cluster based approach to reduce pattern layer size for generalized regression neural network**  
ORAL M., KARTAL S., ÖZYILDIRIM B. M.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.24, no.5, pp.857-863, 2018 (ESCI)

### Books & Book Chapters

- I. **Case Study: Deep Convolutional Networks in Healthcare**  
Avcı M., Sarıgül M., Özyıldırım B. M.  
in: Development and Analysis of Deep Learning Architectures, Pedrycz Witold, Chen Shyi-Ming, Editor, Springer, pp.61-89, 2020
- II. **İşletim Sistemleri ve Sistem Programlama**  
AVCI M., ÖZYILDIRIM B. M., ÜLGEN O.  
Karahana Kitabevi Yayınları, Ankara, 2012

- I. **A Review of Applied Feature Selection and Dimension Reduction Methods for Clustering**  
DİNÇ B., ÖZYILDIRIM B. M., ÖZEL S. A.  
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018
- II. **Deep Learning on Mobile Systems**  
Curukoglu N., ÖZYILDIRIM B. M.  
Innovations in Intelligent Systems and Applications Conference (ASYU), Adana, Turkey, 4 - 06 October 2018, pp.179-182
- III. **Handwritten Digits Classification with Generalized Classifier Neural Network**  
ÖZYILDIRIM B. M., AVCI M.  
Innovations in Intelligent Systems and Applications Conference (ASYU), Adana, Turkey, 4 - 06 October 2018, pp.187-189
- IV. **Image Classification of Aerial Images Using CNN-SVM**  
Copur M., ÖZYILDIRIM B. M., İBRİKÇİ T.  
Innovations in Intelligent Systems and Applications Conference (ASYU), Adana, Turkey, 4 - 06 October 2018, pp.89-94
- V. **A Deep convolutional neural network model for detecting diabetic retinopathy.**  
ÖZYILDIRIM B. M., ORAL M., KARTAL S.  
International Congress on Advance in Bioscience and Biotechnology, 25 October 2017 - 29 January 2018
- VI. **Comparison of convolutional neural network models for food image classification**  
ÖZSERT YİĞİT G., ÖZYILDIRIM B. M.  
2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA 2017), Gdynia, Poland, 3 - 05 July 2017, pp.349-353
- VII. **Comparison of Convolutional Neural Network Models for Food Image Classification**  
Ozsert Yigit G., ÖZYILDIRIM B. M.  
IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Gdynia, Poland, 3 - 05 July 2017, pp.349-353
- VIII. **Antik Madeni Paraların Derin Konvolüsyon Yapay Sinir Ağları İle Sınıflandırılması**  
ÖZYILDIRIM B. M., AVCI M.  
ASYU 2016, Turkey, 29 September - 01 October 2016
- IX. **Comparison of Deep Convolutional Neural Network Structures The effect of layer counts and kernel sizes**  
KARTAL S., ÖZYILDIRIM B. M.  
Fourth International Conference on Advances in Information Processing and Communication Technology - IPCT 2016, Roma, Italy, 18 - 19 August 2016, pp.16-19
- X. **Cellular Neural Networks Based Face Detection Utilizing Graphical Processor**  
ÖZYILDIRIM B. M., AVCI M.  
International Symposium on Innovations in Intelligent SysTems and Applications (INISTA 2010), 21 - 24 June 2010
- XI. **Minix işletim sistemi üzerinde kullanıcı düzeyinde semafor gerçeklemesi**  
ÖZYILDIRIM B. M., AVCI M.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi 30.yıl sempozyumu, Turkey, 5 - 08 October 2008

## Supported Projects

ÖZYILDIRIM B. M., ÇOPUR M., Project Supported by Higher Education Institutions, MODIFIED RECURRENT CONVOLUTIONAL NEURAL NETWORKS FOR ACTION RECOGNITION, 2018 - 2020

URAL S., AVCI M., ÖZYILDIRIM B. M., ALTINER M., ÜRÜNVEREN A., ÖZDEMİR A. C., URAL O. B., Project Supported by Higher Education Institutions, Türk Kömürlerinin Toz Patlama Özelliklerinin Belirlenmesi, 2017 - 2018

## **Metrics**

Publication: 23

Citation (WoS): 138

Citation (Scopus): 197

H-Index (WoS): 4

H-Index (Scopus): 5

## **Scholarships**

Yurt İçi Doktora Burs Programı, TUBITAK, 2015 - Continues

Genel Yurt İçi Yüksek Lisans Burs Programı, TUBITAK, 2012 - Continues