

Assoc. Prof. İsmail CANTÜRK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-7612-2020

Yoksis Researcher ID: 180278

Education Information

Doctorate, Yildiz Technical University, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 2012 - 2017

Postgraduate, Yildiz Technical University, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 2010 - 2012

Undergraduate, Eskişehir Osmangazi University, Mühendislik Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği, Turkey 2005 - 2010

Research Areas

Biomedical Engineering, Biomedical Image Processing, Biosignal Processing, Biosignal Processing, Electrical and Electronics Engineering, Electronic, Electronic Circuits, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Biomedical Engineering, 2022 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Biomedical Engineering, 2020 - 2022

Research Assistant PhD, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2017 - 2020

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2012 - 2017

Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Electrical & Electronics, Biomedical Engineering, 2022 - Continues

Courses

Analog Electronics, Undergraduate, 2021 - 2022, 2020 - 2021
Çok Disiplinli Tasarım Projesi, Undergraduate, 2022 - 2023, 2021 - 2022
Analog Electronic Applications, Undergraduate, 2021 - 2022
Engineering Design, Undergraduate, 2022 - 2023, 2021 - 2022
Applied Machine Learning, Postgraduate, 2022 - 2023
Graduation Thesis, Undergraduate, 2021 - 2022
Introduction to Microcontroller Programming, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Biosignal Processing, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Electronic Circuits 1, Undergraduate, 2019 - 2020
Elektronik Devreler 1 Laboratuvarı, Undergraduate, 2019 - 2020, 2018 - 2019
Tasarım Projesi, Undergraduate, 2019 - 2020
Elektronik ve Haberleşme Mühendisliğine Giriş, Undergraduate, 2019 - 2020, 2018 - 2019
Bitime Çalışması, Undergraduate, 2019 - 2020
Elektronik Devreler 1, Undergraduate, 2018 - 2019
İleri Elektronik Uygulamaları, Undergraduate, 2019 - 2020
Basic Electronic Circuits, Undergraduate, 2017 - 2018
Yariletken Fiziği, Undergraduate, 2017 - 2018
İleri Elektronik Uygulamaları, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of Scalograms with a Deep Feature Fusion Approach for Detection of Parkinson's Disease**
Cantürk İ., Günay O.
COGNITIVE COMPUTATION, no.2024, pp.1-12, 2024 (SCI-Expanded)
- II. **A feature driven intelligent system for neurodegenerative disorder detection: An application on speech dataset for diagnosis of Parkinson's disease**
Cantürk İ.
International Journal On Artificial Intelligence Tools, vol.30, no.3, pp.1-12, 2021 (SCI-Expanded)
- III. **A computerized method to assess Parkinson's disease severity from gait variability based on gender**
Cantürk İ.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.66, no.2021, pp.1-8, 2021 (SCI-Expanded)
- IV. **Fuzzy recurrence plot-based analysis of dynamic and static spiral tests of Parkinson's disease patients**
Cantürk İ.
Neural Computing & Applications, vol.33, no.1, pp.349-360, 2021 (SCI-Expanded)
- V. **Augmented Reality Based Simulation of Some Basic Electrical Circuits Which Requires Oscilloscope for Analysis without Hardware**
Özüağ M., Cantürk İ., Özyılmaz L.
JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, vol.29, no.6, pp.1-11, 2020 (SCI-Expanded)
- VI. **A computational approach to estimate postmortem interval using opacity development of eye for human subjects**
CANTÜRK İ., ÖZYILMAZ L.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.98, pp.93-99, 2018 (SCI-Expanded)
- VII. **Investigation of opacity development in the human eye for estimation of the postmortem interval**
CANTÜRK İ., Çelik S., Şahin M. F., Yagmur F., Kara S., Karabiber F.
BIOCYBERNETICS AND BIOMEDICAL ENGINEERING, vol.37, no.3, pp.559-565, 2017 (SCI-Expanded)
- VIII. **A Machine Learning System for the Diagnosis of Parkinson's Disease from Speech Signals and Its Application to Multiple Speech Signal Types**
CANTÜRK İ., Karabiber F.

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.41, no.12, pp.5049-5059, 2016 (SCI-Expanded)

- IX. **An experimental evaluation of electrical skin conductivity changes in postmortem interval and its assessment for time of death estimation**

CANTÜRK İ., Karabiber F., Celik S., Sahin M. F., Yagmur F., Kara S.

COMPUTERS IN BIOLOGY AND MEDICINE, vol.69, pp.92-96, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Parkinson Hastalığının Derecesi ile Yürüyüş Değişkenliği Arasındaki İlişkinin Bulanık Tekrarlılık Grafiğine Göre Araştırılması**
Cantürk İ.
Avrupa Bilim ve Teknoloji Dergisi, vol.19, pp.410-419, 2020 (Peer-Reviewed Journal)
- II. **DNA Microarray Gene Expression Data Classification Using SVM, MLP, and RF with Feature Selection Methods Relief and LASSO**
Güçkıran K., Cantürk İ., Özyılmaz L.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, no.1, pp.115-121, 2019 (Peer-Reviewed Journal)
- III. **A New Perspective to Electrical Circuit Simulation with Augmented Reality**
ÖZÜAĞ M., CANTÜRK İ., ÖZYILMAZ L.
International Journal of Electrical and Electronic Engineering & Telecommunications., 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Fine Tuning Approach on Scalogram Images to Detect a Neurological Disorder**
Cantürk İ.
International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 15 - 18 October 2022, pp.347-349
- II. **Myocardial Infarction Complication Estimation with Feature Reduction**
Cantürk İ.
14th International Conference of Strategic Research on Scientific Studies and Education, Antalya, Turkey, 16 - 18 December 2021, pp.1-5
- III. **Time Series Prediction for XU100 by Using A Long Short-term Memory Network**
Cantürk İ.
12th International Conference of Strategic Research on Scientific Studies and Education, 10 - 13 December 2020, pp.343-348
- IV. **Performance comparison of shallow and deep CNNs for diagnosis of Parkinson's disease from gait variability**
Cantürk İ.
8th International Scientific Research Congress - Science and Engineering , Çorum, Turkey, 22 - 23 August 2020, pp.183-187
- V. **Bootloader design for an STM32 MCU over Ethernet by using TFTP protocol**
Cantürk B., Cantürk İ., Özyılmaz L.
3rd International Congress of Academic Research, Bolu, Turkey, 20 - 22 July 2020, pp.668-672
- VI. **Gray Level Co-Occurrence Matrix Utilization for Predicting Severity of Parkinson's Disease from Gait Variability Based on Gender**
Cantürk İ.
IV. International Congress on New Trends in Science, Engineering and Technology, Sankt-Peterburg, Russia, 7 - 09 July 2020, pp.85-89

- VII. **A Deep Learning-Cnn Based System For Medical Diagnosis: An Application On Parkinson'S Disease Handwriting Drawings**
KHATAMINO P., CANTÜRK İ., ÖZYILMAZ L.
6th International Conference on Control Engineering & Information Technology, İstanbul, Turkey, 25 October 2018
- VIII. **Investigation Of Bone Age Assessment With Convolutional Neural Network By Using Dog Filtering And À Trous Wavelet As Preprocessing Techniques**
ASAD M. N., CANTÜRK İ., GENÇ F., ÖZYILMAZ L.
6th International Conference on Control Engineering & Information Technology, İstanbul, Turkey, 25 October 2018
- IX. **Comparative Analog Circuit Design Automation Based on Multi Objective Evolutionary Algorithms an Application on CMOS Opamp**
CANTÜRK İ., KAHRAMAN N.
2015 38th International Conference on Telecommunications and Signal Processing (TSP), 9 - 11 July 2015

Supported Projects

Cantürk İ., Çelik B., TUBITAK Project, Üç Farklı EMG Data Setinden Alınan Sinyallerin Makine Öğrenmesi Yöntemleriyle İşlenerek Biyomik Kollarda ve Rahabilitasyon Araçlarında Kullanılabilecek Model Oluşturulması, 2022 - 2023
Cantürk İ., TUBITAK Project, Makine Öğrenmesi Destekli Fiziksel Sağlık Uygulaması, 2021 - 2022
CANTÜRK İ., ÖZYILMAZ L., Project Supported by Higher Education Institutions, Derin öğrenme yöntemleri ile postmortem süre tahmini, 2021 - 2022
CANTÜRK İ., Project Supported by Higher Education Institutions, Parkinson hastalarının yürüyüş değişkenliklerinden hastalığın şiddetinin cinsiyete göre tahmin edilebilirliğinin araştırılması, 2020 - 2021
Cantürk İ., Kara S., Project Supported by Higher Education Institutions, Postmortem sürece yönelik ön çalışma, 2014 - 2015

Scientific Refereeing

Kocaeli Journal of Science and Engineering, Other Journals, March 2021
Current Signal Transduction Therapy, Other Indexed Journal, October 2018
International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, SCI Journal, March 2018
IEEE Access, SCI Journal, August 2017
Journal of Forensic Science & Criminology, Other Indexed Journal, April 2017

Metrics

Publication: 21
Citation (WoS): 37
Citation (Scopus): 77
H-Index (WoS): 3
H-Index (Scopus): 5