

Prof. ÖMERÜLFARUK ÖZGÜVEN

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Address: İnönü Üniversitesi Mühendislik Fakültesi Biyomedikal Müh. Bölümü.

International Researcher IDs

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Yoksis Researcher ID: 109436

Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Elektronik Ve Haberleşme Mühendisliği, Turkey 1990 - 1996

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Elektronik Ve Haberleşme Mühendisliği, Turkey 1985 - 1987

Undergraduate, Inonu University, Elektronik Ve Haberleşme Mühendisliği, Elektronik Ve Haberleşme , Turkey 1981 - 1985

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, 80169 16 bitlik mikrodenetleyicili geliştirme seti tasarımı ve FP 3000 fuzzy işlemciyi kullanarak çok amaçlı mikrodenetleyicili fuzzy lojik kontrol ve uygulaması, Yıldız Technical University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, 1996

Postgraduate, MP-I/88 İLE FREKANSMETRE UYGULAMASI, Yıldız Technical University, Fen Bilimleri, Elektronik Ve Haberleşme, 1987

Research Areas

Computer Sciences, Equipment, Logic Design, Artificial Intelligence, Computer Learning and Pattern Recognition, Fuzzy Sets and Systems, Neural Networks, Software, Programming Languages, Electrical and Electronics Engineering, Electronic, Electronic Circuits, Engineering and Technology

Academic and Administrative Experience

Head of Department, Inonu University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2016 - Continues

Inonu University, Mühendislik Fakültesi, Biyomedikal Mühendisliği Bölümü, 2014 - Continues
Inonu University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1996 - 2014

Courses

LOJİK DEVRELER, Undergraduate, 2017 - 2018, 2016 - 2017
LOJİK DEVRE TASARIMI, Undergraduate, 2017 - 2018, 2016 - 2017
FUZZY DENETLEYİCİLER VE UYGULAMALARI, Undergraduate, 2017 - 2018
BİLGİSAYAR PROGRAMLAMAYA GİRİŞ, Undergraduate, 2017 - 2018
MİKRODENETLEYİCİLER, Undergraduate, 2017 - 2018, 2016 - 2017
İMALATTA PLC KONTROL, Undergraduate, 2017 - 2018
İMALATTA PLC KONTROL, Undergraduate, 2017-2018
YAPAY SİNİR AĞLARI VE UYG., Postgraduate, 2016 - 2017
LOJİK DEVRE TASARIMI, Undergraduate, 2017-2018
BİLGİSAYAR PROGRAMLAMAYA GİRİŞ, Undergraduate, 2017-2018
MİKRODENETLEYİCİ UYGULAMALARI, Undergraduate, 2016 - 2017
FUZZY DENETLEYİCİLER VE UYGULAMALARI, Undergraduate, 2017-2018
MİKRODENETLEYİCİLER UYGULAMALARI LAB., Undergraduate, 2016 - 2017
LOJİK DEVRELER, Undergraduate, 2017-2018
PROGRAMLANABİLİR MANTIK DENETLEYİCİLER (PLC), Undergraduate, 2016 - 2017
MİKRODENETLEYİCİLER, Undergraduate, 2017-2018
FUZZY DENETLEYİCİLER VE UYGULAMALARI, Postgraduate, 2016 - 2017
PROGRAMLANABİLİR MANTIK DENETLEYİCİLER (PLC), Undergraduate, 2016-2017
MİKRODENETLEYİCİLER, Undergraduate, 2016-2017
LOJİK DEVRE TASARIMI, Undergraduate, 2016-2017
LOJİK DEVRELER, Undergraduate, 2016-2017
YAPAY SİNİR AĞLARI VE UYG., Undergraduate Double Major, 2016-2017
FUZZY DENETLEYİCİLER VE UYGULAMALARI, Undergraduate Double Major, 2016-2017
MİKRODENETLEYİCİLER UYGULAMALARI LAB., Undergraduate, 2016-2017
MİKRODENETLEYİCİ UYGULAMALARI, Undergraduate, 2016-2017
DİJİTAL SİSTEMLER, Undergraduate, 2015-2016
MİKRODENETLEYİCİ UYGULAMALARI, Undergraduate, 2015-2016
FUZZY DENETLEYİCİLER VE UYGULAMALARI, Undergraduate Double Major, 2015-2016
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LOJİK DEVRE TASARIMI, Undergraduate, 2015-2016
MİKROİŞLEMCİLER, Undergraduate, 2015-2016
MİKRODENETLEYİCİLER, Undergraduate, 2015-2016
YAPAY SİNİR AĞLARI VE UYG., Undergraduate Double Major, 2015-2016
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MİKRODENETLEYİCİLER UYGULAMALARI LAB., Undergraduate, 2014-2015
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MİKRODENETLEYİCİ UYGULAMALARI, Undergraduate, 2014-2015

YAPAY SİNİR AĞLARI VE UYG., Undergraduate Double Major, 2013-2014
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MİKRODENETLEYİCİ UYGULAMALARI, Undergraduate, 2013-2014
DİJİTAL ELEKTRONİK, Undergraduate, 2013-2014
LOJİK DEVRE TASARIMI, Undergraduate, 2013-2014
FUZZY DENETLEYİCİLER VE UYGULAMALARI, Undergraduate Double Major, 2013-2014
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DİJİTAL SİSTEMLER, Undergraduate, 2009-2010
MİKRODENETLEYİCİ UYGULAMALARI, Undergraduate, 2009-2010

Advising Theses

ÖZGÜVEN Ö., Nötrozofik bulanık mantık tabanlı kontrol uygulamalarının gerçekleştirilmesi, Doctorate, M.SERHAT(Student), 2017
ÖZGÜVEN Ö., Kesir dereceli PID-bulanık mantık denetleyici ve parametrelerinin apatif metotla ayarlanması, Postgraduate, F.BAKÇA(Student), 2014
ÖZGÜVEN Ö., Adaptif ağ yapısına dayalı bulanık çıkarım sisteminin (ANFIS) ultrasonik motor üzerinde uygulaması,

Postgraduate, İ.ÇAKAN(Student), 2013

ÖZGÜVEN Ö., Adaptif ağ yapısına dayalı bulanık çıkarım sisteminin (ANFIS) sayısal işaret işlemci ile gerçekleştirilmesi ve uygulaması, Postgraduate, N.BAYSAL(Student), 2009

ÖZGÜVEN Ö., CAN (Controller Area Network), temelli alarm sistemi tasarımı, Postgraduate, H.KAYABAŞI(Student), 2008

ÖZGÜVEN Ö., Türbin-jeneratör sisteminin neuro-fuzzy denetleyici ile kontrolü, Postgraduate, S.KAVRUK(Student), 2005

ÖZGÜVEN Ö., Yapay sinir ağları-bulanık mantık PID denetleyici, Postgraduate, O.ŞENER(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Real-Time Detection of Knitting Fabric Defects Using Shearlet Transform**
HANBAY K., TALU M. F., ÖZGÜVEN Ö., ÖZTÜRK D.
Tekstil Ve Konfeksiyon, vol.29, no.1, pp.3-10, 2019 (SCI-Expanded)
- II. **Fuzzy PID Control by Grouping of Membership Functions of Fuzzy Antecedent Variables with Neutrosophic Set Approach and 3-D Position Tracking Control of a Robot Manipulator**
CAN M. S., Ozguven O. F.
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, vol.13, no.2, pp.969-980, 2018 (SCI-Expanded)
- III. **Design of Adaptive Fractional-Order PID Controller to Enhance Robustness by Means of Adaptive Network Fuzzy Inference System**
ARPACI H., Ozguven O. F.
INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, vol.19, no.4, pp.1118-1131, 2017 (SCI-Expanded)
- IV. **PID Tuning with Neutrosophic Similarity Measure**
Can M. S., Ozguven O. F.
INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, vol.19, no.2, pp.489-503, 2017 (SCI-Expanded)
- V. **ANFIS & (PID μ)-D- λ controller design and comparison for overhead cranes**
ARPACI H., ÖZGÜVEN Ö.
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.18, no.3, pp.191-203, 2011 (SCI-Expanded)
- VI. **Effect of some heating parameters on volume expansion of borax**
Kahraman B., Ozel M., ÖZGÜVEN Ö., Batar T., ERDOĞAN N., Dicle Z., Safak S., Kurt S.
MINERALS & METALLURGICAL PROCESSING, vol.25, no.3, pp.169-174, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Manyetik Levitasyon Sistemleri İçin Ağırlıklı Geometrik Merkez Yöntemi ile PI-PD Kontrolcü Tasarımı**
ONAT C., DAŞKIN M., TURAN A., ÖZGÜVEN Ö.
Mühendis ve Makina, 2021 (Peer-Reviewed Journal)
- II. **Otomatik Ayarlamalı Sinir Hücresi ile Adaptif Kesir Dereceli PID Kontrolör Tasarımı**
ARPACI H., ÖZGÜVEN Ö., CAN M. S.
Journal of New Results in Engineering and Natural Science, vol.8, pp.100-118, 2018 (Peer-Reviewed Journal)
- III. **6 Sigma Süreç Yeterlilik İndeksi ile Adaptif PID Denetleyici Tasarımı**
CAN M. S., ÖZGÜVEN Ö., ARPACI H.
Journal of New Results in Engineering and Natural Science, vol.8, pp.84-99, 2018 (Peer-Reviewed Journal)
- IV. **IMPROVEMENT OF MAGNETIC FILTERS' PERFORMANCE BY CONTROLLING REGIONAL FIELD WITH PWM USING A DIGITAL SIGNAL CONTROLLER**
ÖZGÜVEN Ö.
Istanbul University Journal of Electrical & Electronics Engineering (IU JEEE), vol.17, pp.3239-3247, 2017 (Peer-Reviewed Journal)
- V. **FRACTIONAL MODEL REFERENCE ADAPTIVE PI D CONTROL**
ARPACI H., ÖZGÜVEN Ö., CAN M. S.
Journal of New Results in Science, pp.102-107, 2016 (Peer-Reviewed Journal)

- VI. **DESIGN OF THE NEUTROSOPHIC MEMBERSHIP VALUED FUZZY PID CONTROLLER AND ROTATION ANGLE CONTROL OF A PERMANENT MAGNET DIRECT CURRENT MOTOR**
CAN M. S., ÖZGÜVEN Ö.
Journal of New Results in Science, no.12, pp.126-138, 2016 (Peer-Reviewed Journal)
- VII. **Fuzzy Logic Controller in Modern Control Systems An Industrial Application**
Cansever G., Engin Ş. N., ÖZGÜVEN Ö., Uzam M.
Advances in Modelling & Analysis, C, AMSE Periodicals, vol.43, pp.41-63, 1993 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Comparative Performance Evaluation of Fractional Fuzzy Inference System for A High-Order System**
Cengiz M., DENİZ F. N., ÖZGÜVEN Ö.
7th International Symposium on Innovative Approaches in Smart Technologies (ISAS 2023), İstanbul, Turkey, 23 - 25 November 2023
- II. **Implementation of PID Type Fuzzy Logic Controller With Digital Signal Controller**
ÖZGÜVEN Ö., CAN M. S., HAMAMCI S. E.
6th International Conference on Control Engineering and Information Technologies, Istanbul, Turkey, 25-27 October 2018, İstanbul, Turkey, 25 October 2019 - 27 October 2018, pp.134-139
- III. **Magnetic Activation of Drug Carriers in Biomedical Engineering by Using Digital Signal Controller**
BİLGİLİ H., ÖZGÜVEN Ö. F., ABBASOV T.
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.2057-2062
- IV. **Magnetic Activation of Drug Carriers in Biomedical Engineering by Using Digital Signal Controller**
BİLGİLİ H., ÖZGÜVEN Ö., ABBASOV T.
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.2057-2062
- V. **Implementation of PID Type Fuzzy Logic Controller with Digital Signal Controller**
Özgüven Ö., Can M. S., Hamamcı S. E.
The 6th International Conference on Control Engineering Information Technology, İstanbul, Turkey, 25 - 27 October 2018
- VI. **IMPLEMENTATION of PID TYPE FUZZY LOGIC CONTROLLER WITH DIGITAL SIGNAL CONTROLLER**
ÖZGÜVEN Ö., CAN M. S., HAMAMCI S. E.
6th International Conference on Control Engineering and Information Technology (CEIT), İstanbul, Turkey, 25 - 27 October 2018

Supported Projects

- ÖZGÜVEN Ö., TUBITAK Project, Nötrosofik Üyelik Değerli Bulanik Mantik Denetleyici Kullanarak Fotovoltaik Sistemin Verimliliğini Arttırmak İçin Maksimum Güç Noktasının İzlenmesi Ve Kontrolü (1001), 2018 - Continues
- TALU M. F., ÖZGÜVEN Ö., TUBITAK Project, Otomatik Yükleme Kömür Kazanlarında Görüntü İşlemeli Adaptif Kontrol Ünitesi Geliştirilmesi, 2017 - Continues
- KIZILASLAN O., ZENGİN R., KIRAT G., ŞİMŞEK M., ÖZGÜVEN Ö., DOĞAN B., BİLGİLİ H., AKSAN M. A., ERDOĞAN A., Project Supported by Higher Education Institutions, RF PÜSKÜRTME TEKNİĞİ İLE HİDROKSİAPATİT VE FLORAPATİT KAPLANMIŞ ORTODONTİK ŞEKİL HAFIZALI NİTİ TELLERİN HAZIRLANMASI, 2018 - 2021
- TALU M. F., ÖZGÜVEN Ö., ERGİN A. S., Project Supported by Higher Education Institutions, Yerli çizgi kamera için yazılım ve donanım bileşenlerin araştırılması, 2019 - 2020
- ÖZGÜVEN Ö., CAN M. S., HAMAMCI S. E., Project Supported by Higher Education Institutions, FUZZY PID KONTROLÖRÜN SAYISAL İŞLEM DENETLEYİCİ İLE UYGULAMASI, 2018 - 2020
- ŞİMŞEK M., YAKINCI M. E., ERDOĞAN A., KIZILASLAN O., ÖZGÜVEN Ö., BİLGİLİ H., DOĞAN B., Project Supported by Higher

Education Institutions, BİYOMEDİKAL MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİ LABORATUVARLARI ALTYAPI TAMAMLAMA PROJESİ, 2015 - 2018

ÖZGÜVEN Ö., Project Supported by Higher Education Institutions, ALAN TARAMA KAMERALARI KULLANILARAK GÖMÜLÜ GÖRÜNTÜ İŞLEME ÖZELLİĞİNE SAHİP GERÇEK ZAMANLI KUMAŞ HATASI TESPİT SİSTEMİ, 2014 - 2015

Metrics

Publication: 21

Citation (WoS): 30

Citation (Scopus): 13

H-Index (WoS): 3

H-Index (Scopus): 2

Non Academic Experience

SMARTIYS MALATYA TEKNOKENT

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