Prof.Dr. Köksal ERENTÜRK

Kişisel Bilgiler

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Yoksis Araştırmacı ID: 119083

Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 1997 - 2002

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, GÜÇ SİSTEMLERİNİN KORUNMASI İÇİN AKILLI BİR KORUMA RÖLESİNİN TASARIMI, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2002

Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Enerji, Enerji İletimi ve Dağıtımı , Güç Elektroniği, Elektrik Makineleri Kuramı ve Tasarımı, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Atatürk Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2018 - Devam Ediyor
Prof.Dr., Atatürk Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2014 - 2018

Verdiği Dersler

Elektronik Devreler, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020
Mekatroniğe Giriş, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020
Sinyaller ve Sistemler, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020
Sinyaller ve Sistemler, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020
Mekatroniğe Giriş, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020
Elektronik Devreler, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020

Bilgisayar Mühendisliği Seçmeli Tasarım II, Lisans, 2020 - 2021
Bilgisayar Mühendisliğinde Akıllı Kontrol Sistem Tasarımı, Doktora, 2020 - 2021
Sayısal Tasarım, Lisans, 2021 - 2022
Bitirme Projesi II, Lisans, 2020 - 2021
Otomasyon Sistem Tasarımı, Lisans, 2021 - 2022, 2020 - 2021
Danışmanlık, Doktora, 2020 - 2021
Design of Industrial Electronic Systems and Their Applications on Mechatronics, Yüksek Lisans, 2020 - 2021
Bilgisayar Mühendisliği Seçmeli Tasarım II, Lisans, 2020 - 2021
Bitirme Projesi II, Lisans, 2020 - 2021
Uzmanlık Alan Dersi (Yabancı Uyruklu) I, Yüksek Lisans, 2020 - 2021
Introduction to Computer Engineering, Lisans, 2020 - 2021, 2019 - 2020
Bilgisayar Mühendisliği Seçmeli Tasarım I, Lisans, 2020 - 2021
Bilgisayar Mühendisliğinde Akıllı Kontrol Sistem Tasarımı, Doktora, 2020 - 2021, 2019 - 2020
Sayısal Tasarım, Lisans, 2020 - 2021, 2019 - 2020
Bitirme Projesi I, Lisans, 2020 - 2021
Introduction to Computer Engineering, Lisans, 2020 - 2021, 2019 - 2020
Otomasyon Sistem Tasarımı, Lisans, 2020 - 2021, 2019 - 2020
Bilgisayar Mühendisliği Seçmeli Tasarım I, Lisans, 2020 - 2021
Bitirme Projesi I, Lisans, 2020 - 2021

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Enhanced fractional-order PIλDμ control for a forced circulation evaporator system via advanced disturbance observer**
Erentürk K., Erentürk S.
ISA Transactions, cilt.131, ss.167-177, 2022 (SCI-Expanded)

II. **Design and Comparison of Different Types of Synergetic Controllers for Islanded DC Microgrids**
Erentürk K., Draou A., Alkassem A.
SUSTAINABILITY, cilt.14, sa.14, 2022 (SCI-Expanded)

III. **Fractional order calculus approach for drying modeling of eggplants**
Erentürk K., Kose B., Erentürk S.
FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL, cilt.26, ss.379-387, 2020 (SCI-Expanded)

IV. **Comparisons of novel modeling techniques to analyze thermal performance of unglazed transpired solar collectors**
ERENTÜRK S., ERENTÜRK K.
MEASUREMENT, cilt.116, ss.412-421, 2018 (SCI-Expanded)

V. **A comparative study of two model-based control techniques for the industrial manipulator**
DUMLU A., ERENTÜRK K., Kaleli A., AYTEN K. K.
ROBOTICA, cilt.35, sa.10, ss.2036-2055, 2017 (SCI-Expanded)

VI. **Passive Fault Tolerant Control of Induction Motors Using Nonlinear Block Control**
TOHİDİ H., ERENTÜRK K., Shoja-Majidabad S.
CONTROL ENGINEERING AND APPLIED INFORMATICS, cilt.19, sa.1, ss.49-58, 2017 (SCI-Expanded)

VII. **Trajectory Tracking Control and Contouring Performance of Three-Dimensional CNC**
ÇORAPSIZ M. F., ERENTÜRK K.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, cilt.63, sa.4, ss.2212-2220, 2016 (SCI-Expanded)

VIII. **Controlling spark timing for consecutive cycles to reduce the cyclic variations of SI engines**
KALELİ A., CEVİZ M. A., ERENTÜRK K.
APPLIED THERMAL ENGINEERING, cilt.87, ss.624-632, 2015 (SCI-Expanded)

IX. **Trajectory Tracking Control for a 3-DOF Parallel Manipulator Using Fractional-Order (PID mu)-D-lambda Control**

DUMLU A., ERENTÜRK K.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, cilt.61, sa.7, ss.3417-3426, 2014 (SCI-Expanded)

X. **Modeling and trajectory tracking control of 6-DOF RSS type parallel manipulator**
Dumlu A., ERENTÜRK K.
ROBOTICA, cilt.32, sa.4, ss.643-657, 2014 (SCI-Expanded)

XI. **Fractional-Order (PID mu)-D-lambda and Active Disturbance Rejection Control of Nonlinear Two-Mass Drive System**
Erenturk K.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, cilt.60, sa.9, ss.3806-3813, 2013 (SCI-Expanded)

XII. **Gray-fuzzy control of a nonlinear two-mass system**
Erenturk K.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, cilt.347, sa.7, ss.1171-1185, 2010 (SCI-Expanded)

XIII. **Adaptive-Network-Based Fuzzy Inference System Application to Estimate the Flashover Voltage on Insulator**
Erenturk K.
INSTRUMENTATION SCIENCE & TECHNOLOGY, cilt.37, sa.4, ss.446-461, 2009 (SCI-Expanded)

XIV. **ANFIS-Based Compensation Algorithm for Current-Transformer Saturation Effects**
Erenturk K.
IEEE TRANSACTIONS ON POWER DELIVERY, cilt.24, sa.1, ss.195-201, 2009 (SCI-Expanded)

XV. **Nonlinear two-mass system control with sliding-mode and optimised proportional-integral derivative controller combined with a grey estimator**
Erenturk K.
IET CONTROL THEORY AND APPLICATIONS, cilt.2, sa.7, ss.635-642, 2008 (SCI-Expanded)

XVI. **Dynamic characterization of a UV fluorescent lamp**
Erenturk K.
IEEE TRANSACTIONS ON PLASMA SCIENCE, cilt.36, sa.2, ss.519-523, 2008 (SCI-Expanded)

XVII. **Hybrid control of a mechatronic system: Fuzzy logic and grey system modeling approach**
ERENTÜRK K.
IEEE-ASME TRANSACTIONS ON MECHATRONICS, cilt.12, sa.6, ss.703-710, 2007 (SCI-Expanded)

XVIII. **Comparison of genetic algorithm and neural network approaches for the drying process of carrot**
Erenturk S., Erenturk K.
JOURNAL OF FOOD ENGINEERING, cilt.78, sa.3, ss.905-912, 2007 (SCI-Expanded)

XIX. **MATLAB-based GUIs for fuzzy logic controller design and applications to PMDC motor and AVR control**
Erenturk K.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, cilt.13, sa.1, ss.10-25, 2005 (SCI-Expanded)

XX. **Fuzzy control of a dc motor driven four-bar mechanism**
GÜNDOĞDU Ö., ERENTÜRK K.
Mechatronics, cilt.15, sa.4, ss.423-438, 2005 (SCI-Expanded)

XXI. **Application of fuzzy logic to a leakage current relay**
ERENTÜRK K.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, cilt.29, ss.305-317, 2005 (SCI-Expanded)

XXII. **A new digital protective relay based on fuzzy logic and value estimation**
ERENTÜRK K.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, cilt.29, ss.267-276, 2005 (SCI-Expanded)

XXIII. **A comparative study for the estimation of dynamical drying behavior of Echinacea angustifolia: regression analysis and neural network**
Erenturk K., Erenturk S., TABIL L. G.

COMPUTERS AND ELECTRONICS IN AGRICULTURE, cilt.45, ss.71-90, 2004 (SCI-Expanded)

XXIV. **Fault identification in a radial power system using fuzzy logic**
Erenturk K., ALTAŞ İ. H.
INSTRUMENTATION SCIENCE & TECHNOLOGY, cilt.32, sa.6, ss.641-653, 2004 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. **Design and Application of Grey Predictor for Unglazed Transpired Solar Collector**
ERENTÜRK S., ERENTÜRK K.
International Journal of Engineering and Applied Sciences, 2018 (Hakemli Dergi)

II. **Design of "Deep Learning Controller"**
ERENTÜRK K.
International Journal of Engineering and Applied Sciences, 2018 (Hakemli Dergi)

Kitap & Kitap Bölümleri

I. **Yangın Algılama Ve Uyarı Sistemleri**
ERENTÜRK K.
Yanma ve Yangın, , Editör, Atatürk Üniversitesi Açıköğretim Fakültesi, 2018

II. **Elektrik Sistemlerinde Yangın Güvenliği**
ERENTÜRK K.
Yanma ve Yangın, , Editör, Atatürk Üniversitesi Açıköğretim Fakültesi, Erzurum, 2018

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **A RESEARCH ABOUT THE CONTENT AND USAGE AREAS OF THE MEDLAR PLANT (MESPILUS GERMANICA L.)**
Erentürk S., Erentürk K.
International Antalya Scientific Research and Innovative Studies Congress , Antalya, Türkiye, 18 - 21 Aralık 2021, ss.272-279

II. **MATHEMATICAL MODELING OF THE MICROWAVE DRYING OF EGGPLANT (SOLANOM MELONGENA)**
Erentürk S., Köse B., Erentürk K.
Uluslararası Antalya Bilimsel Arastırmalar ve Yenilikçi Çalısmalar Kongresi, Antalya, Türkiye, 18 - 21 Aralık 2021, ss.267-271

III. **MIKRO SEBEKE UYGULAMALARI IÇIN SINERJIK DENETLEYICI TASARIMI**
Erentürk K., Erentürk S.
8.Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, İstanbul, Türkiye, 6 - 07 Aralık 2021, ss.213-217

IV. **GÜNEŞ PANELİ BULUNAN MİKRO ŞEBEKE ENERJİ DEPOLAMA SİSTEMLERİNİN TERMİNAL SİNERJİK DENETLEYİCİ İLE KONTROLÜ**
Erentürk K., Erentürk S.
8.ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Türkiye, 6 - 07 Aralık 2021, ss.109-115

V. **Comparison of Control Methods Approaches in Microgrid Architectures**
Bağıran A., Erentürk K.
4th International Symposium on Innovative Approaches in Engineering and Natural Sciences, Samsun, Türkiye, 22 - 24 Kasım 2019, cilt.4, sa.6, ss.253-257

VI. **Design of Droop Controller in Microgrid Architectures**
Bağıran A., Erentürk K.

4th International Symposium on Innovative Approaches in Engineering and Natural Sciences, Samsun, Türkiye, 21 - 24 Kasım 2019, cilt.4, sa.6, ss.258-261

VII. **Application of Artificial Intelligent Approaches in Drying Phenomena**
ERENTÜRK S., ERENTÜRK K.
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, 19 - 21 Ekim 2018

VIII. **Determination of Effective Moisture Diffusivities of Sliced Bananas in Different Drying Systems**
ERENTÜRK S., ERENTÜRK K.
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, 19 - 21 Ekim 2018

IX. **Controller Design for an Islanded Microgrid Energy System with ESS**
ERENTÜRK K., ERENTÜRK S.
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, 19 - 21 Ekim 2018

X. **Smart Grid: An Interdisciplinary Engineering Application**
ERENTÜRK K.
The 12th International Conference Interdisciplinarity in Engineering INTER-ENG 2018, 4 - 05 Ekim 2018

XI. **Innovative Trends on Smart Grids**
ERENTÜRK K.
1st International Symposium on Innovative Approaches in Scientific Studies, 11 - 13 Nisan 2018

XII. **DESIGN AND IMPLEMENTATION OF PRIMARY CONTROLLERS FOR MICROGRIDS**
ERENTÜRK K., Draou A.
INTERNATIONAL ADVANCED RESEARCHESENGINEERING CONGRESS 2017 (IAREC 2017), Osmaniye, Türkiye, 16 - 18 Kasım 2017, ss.953-956

XIII. **Deep Learning and Its Applications in Engineering Applications**
ERENTÜRK K., ERENTÜRK S.
2nd International Conference on Advanced Engineering Technologies (ICADET'xx17), Bayburt, Türkiye, 21 - 23 Eylül 2017

XIV. **Designing and Mathematical Modeling of Unglazed Transpired Solar Collector Experimental Setup**
ERENTÜRK S., ERENTÜRK K.
2nd International Conference on Advanced Engineering Technologies, Bayburt, Türkiye, 21 - 23 Eylül 2017

XV. **SMART ENERGY-SYSTEMS FOR LARGE-SCALE INTEGRATION OF RENEWABLE ELECTRICAL ENERGY**
ERENTÜRK K.
1st International Conference on Smart Grid Technologies, 11 - 12 Eylül 2017

XVI. **Model-based sliding mode control technique for the stewart platform mechanism**
DUMLU A., KALELİ A., ERENTÜRK K., AYTEN K. K.
The International Conference onEngineering Technology, Antalya, Türkiye, 21 - 23 Ağustos 2017

XVII. **Application of Electric Springs in Smart Grids**
ERENTÜRK K.
2 INTERNATIONAL CONFERENCE ON SCIENCEECOLOGY AND TECHNOLOGY(ICONSETE'2016), 14 - 16 Ekim 2016

XVIII. **Fractional Order Modeling and Control of Smart Grid ConnectedPhotovoltaic PV Energy Generation System**
ERENTÜRK K.
ICONSETE 2016, Barcelona, İspanya, 14 - 16 Ekim 2016, ss.114-120

XIX. **Modeling of drying process using fractional order calculus**
ERENTÜRK K., ERENTÜRK S.
1st International MediterraneanSCIENCE AND ENGINEERING CONGRESS, 26 - 28 Ekim 2016

XX. **Fractional Order Modeling and Control of Renewable Energy Systems**
ERENTÜRK K., ERENTÜRK S.
KINETIC 2016, 3 - 04 Nisan 2016

XXI. **Fractional Order Modeling and Control of Renewable Energy Systems**
ERENTÜRK K., ERENTÜRK S.
3rd Kuwait Industrial Exhibition & Technical Conference (KINETIC- 2016), 3 - 04 Nisan 2016

XXII. **Modeling of Dynamical Industrial Systems Using Fractional OrderCalculus**

ERENTÜRK K.
ICONSETE 2015, 25 - 28 Ağustos 2015

XXIII. **Fractional Order Controller Design and Applications**
ERENTÜRK K.
ICONSETE 2015, 25 - 28 Ağustos 2015

XXIV. **Design and Linear Quadratic OptimalRegulator LQR Control of 6 dof RSS ParallelManipulator**
DUMLU A., ERENTÜRK K.
AMME 2015, 25 - 26 Ekim 2015

XXV. **Self Tuning Controller for Reducing Cycle to Cycle Variations in SI Engine**
KALELİ A., Ceviz M. A., ERENTÜRK K.
International Conference on Sustainable Energy and Environmental Engineering (SEEE), Bangkok, Tayland, 25 - 26 Ekim 2015, cilt.14, ss.99-102

XXVI. **3 Eksenli CNC İşlem Tezgâhı Tasarımı ve Kontrolü**
Çorapsız M. F., Erentürk K.
TOK 2014, Kocaeli, Türkiye, 11 - 13 Eylül 2014, ss.34-37

XXVII. **Portal Tip Üç Eksenli CNC Freze Tezgâhının Tasarımı ve İmalatı**
ÇORAPSIZ M. F., ERENTÜRK K.
TOK 2014, Türkiye, 11 - 13 Eylül 2014

XXVIII. **Portal Tip Üç Eksenli CNC Freze Tezgâhının Yörünge İzleme ve Kontur Kontrolü**
Çorapsız M. F., Erentürk K.
TOK 2014, Kocaeli, Türkiye, 11 - 13 Eylül 2014, ss.53-58

XXIX. **Robust Adaptive Fault Tolerant Controller Design, Applied to Three Phase Induction Motor**
Tohidi H., ERENTÜRK K.
16th International Power Electronics and Motion Control Conference and Exposition (PEMC), Antalya, Türkiye, 21 - 24 Eylül 2014, ss.299-304

Bilirkişi Raporları

I. **Büyükbahçe Regülatörü ve HES ile Bağbaşı Regülatörü ve HES İşleri Bilirkişi Raporu 2013 87**
AKBULUT S., ERENTÜRK K., KALKAN E., ÇAKICI F. Z., BİNGÖL A. F., KARAKAN M., AKSOY S.
Tortum Asliye Hukuk Mahkemesi, cilt.2013, ss.1-161, 2015 (Hakemli Dergi)

Desteklenen Projeler

YAVUZ U., ERKAN F., ERKAN Z., ERENTÜRK K., Yükseköğretim Kurumları Destekli Proje, Mesafe Kontrol ve Elektronik Ateşleme Destekli Fünye, 2020 - 2023
ERENTÜRK K., BAŞÇİ A., Yükseköğretim Kurumları Destekli Proje, ENDÜSTRİYEL OTOMASYON VE GÜÇ ELEKTRONİĞİ LABORATUVARI TASARIMI, 2015 - 2016
Çorapsız M. F., Erentürk K., Yükseköğretim Kurumları Destekli Proje, Esnek Paralel Mekanizmalı Bir Elektrikli Aracın Hassas Denetimi ve Tasarımı, 2013 - 2014
ERENTÜRK K., Yükseköğretim Kurumları Destekli Proje, ESNEK PARALEL MEKANİZMALI BİR ELEKTRİKLİ ARACIN HASSAS DENETİMİ VE TASARIMI, 2011 - 2013
ERENTÜRK K., Yükseköğretim Kurumları Destekli Proje, BUJİ ATEŞLEMELİ MOTORLARDA ÇEVRİMSEL FARKLAR ÜZERİNE ATEŞLEME AVANSININ ETKİLERİNİN VE KONTROL YÖNTEMLERİNİN İNCELENMESİ, 2011 - 2013

Metrikler

Yayın: 61

Atıf (WoS): 688
Atıf (Scopus): 830
H-İndeks (WoS): 12
H-İndeks (Scopus): 12

Akademi Dışı Deneyim

Atatürk Üniversitesi