

Prof. Köksal ERENTÜRK

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 1997 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, GÜC SİSTEMLERİNİN KORUNMASI İÇİN AKILLI BİR KORUMA RÖLESİNİN TASARIMI, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2002

Research Areas

Electrical and Electronics Engineering, Energy, Electric Power Transmission, Distribution and Protection, Power Electronics, Electrical Machine Theory and Design, Engineering and Technology

Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2018 - Continues

Professor, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2014 - 2018

Courses

Elektronik Devreler, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Mekatroniğe Giriş, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Sinyaller ve Sistemler, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Sinyaller ve Sistemler, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Mekatroniğe Giriş, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Elektronik Devreler, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Enhanced fractional-order PI λ D μ control for a forced circulation evaporator system via advanced disturbance observer
Erentürk K., Erentürk S.
ISA Transactions, vol.131, pp.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, vol.14, no.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, vol.26, pp.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, vol.116, pp.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, vol.35, no.10, pp.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, vol.19, no.1, pp.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, vol.63, no.4, pp.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, vol.87, pp.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, vol.61, no.7, pp.3417-3426, 2014 (SCI-Expanded)
- X. **Modeling and trajectory tracking control of 6-DOF RSS type parallel manipulator**
 Dumlu A., ERENTÜRK K.
 ROBOTICA, vol.32, no.4, pp.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, vol.60, no.9, pp.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, vol.347, no.7, pp.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, vol.37, no.4, pp.446-461, 2009 (SCI-Expanded)
- XIV. **ANFIS-Based Compensation Algorithm for Current-Transformer Saturation Effects**
 Erenturk K.
 IEEE TRANSACTIONS ON POWER DELIVERY, vol.24, no.1, pp.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, vol.2, no.7, pp.635-642, 2008 (SCI-Expanded)
- XVI. **Dynamic characterization of a UV fluorescent lamp**
 Erenturk K.
 IEEE TRANSACTIONS ON PLASMA SCIENCE, vol.36, no.2, pp.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, vol.12, no.6, pp.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, vol.78, no.3, pp.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, vol.13, no.1, pp.10-25, 2005 (SCI-Expanded)
- XX. **Fuzzy control of a dc motor driven four-bar mechanism**
 GÜNDÖĞDU Ö., ERENTÜRK K.
 Mechatronics, vol.15, no.4, pp.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, vol.29, pp.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, vol.29, pp.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, vol.45, pp.71-90, 2004 (SCI-Expanded)
- XXIV. **Fault identification in a radial power system using fuzzy logic**
Erentürk K., ALTAŞ İ. H.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.32, no.6, pp.641-653, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Design and Application of Grey Predictor for Unglazed Transpired Solar Collector**
ERENTÜRK S., ERENTÜRK K.
International Journal of Engineering and Applied Sciences, 2018 (Peer-Reviewed Journal)
- II. **Design of "Deep Learning Controller"**
ERENTÜRK K.
International Journal of Engineering and Applied Sciences, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Yangın Algılama Ve Uyarı Sistemleri**
ERENTÜRK K.
in: Yanma ve Yangın, , Editor, Atatürk Üniversitesi Açıköğretim Fakültesi, 2018
- II. **Elektrik Sistemlerinde Yangın Güvenliği**
ERENTÜRK K.
in: Yanma ve Yangın, , Editor, Atatürk Üniversitesi Açıköğretim Fakültesi, Erzurum, 2018

Refereed Congress / Symposium Publications in Proceedings

- 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, Turkey, 18 - 21 December 2021, pp.272-279
- II. **MATHEMATICAL MODELING OF THE MICROWAVE DRYING OF EGGPLANT (SOLANUM MELONGENA)**
Erentürk S., Köse B., Erentürk K.
Uluslararası Antalya Bilimsel Arastırmalar ve Yenilikçi Çalışmalar Kongresi, Antalya, Turkey, 18 - 21 December 2021, pp.267-271
- III. **GÜNEŞ PANELİ BULUNAN MİKRO ŞEBEKE ENERJİ DEPOLAMA SİSTEMLERİNİN TERMİNAL SINERJİK DENETLEYİCİ İLE KONTROLÜ**
Erentürk K., Erentürk S.
8.ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 6 - 07 December 2021, pp.109-115
- IV. **MIKRO ŞEBEKE UYGULAMALARI İÇİN SINERJİK DENETLEYICI TASARIMI**
Erentürk K., Erentürk S.
8.Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, İstanbul, Turkey, 6 - 07 December 2021, pp.213-217
- 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, Turkey, 22 - 24 November 2019, vol.4, no.6, pp.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, Turkey, 21 - 24 November 2019, vol.4, no.6, pp.258-261
- VII. **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 October 2018
- VIII. **Application of Artificial Intelligent Approaches in Drying Phenomena**
ERENTÜRK S., ERENTÜRK K.
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, 19 - 21 October 2018
- IX. **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 October 2018
- X. **Smart Grid: An Interdisciplinary Engineering Application**
ERENTÜRK K.
The 12th International Conference Interdisciplinarity in Engineering INTER-ENG 2018, 4 - 05 October 2018
- XI. **Innovative Trends on Smart Grids**
ERENTÜRK K.
1st International Symposium on Innovative Approaches in Scientific Studies, 11 - 13 April 2018
- XII. **DESIGN AND IMPLEMENTATION OF PRIMARY CONTROLLERS FOR MICROGRIDS**
ERENTÜRK K., Draou A.
INTERNATIONAL ADVANCED RESEARCHENGINEERING CONGRESS 2017 (IAREC 2017), Osmaniye, Turkey, 16 - 18 November 2017, pp.953-956
- XIII. **Designing and Mathematical Modeling of Unglazed Transpired Solar Collector Experimental Setup**
ERENTÜRK S., ERENTÜRK K.
2nd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017
- XIV. **Deep Learning and Its Applications in Engineering Applications**
ERENTÜRK K., ERENTÜRK S.
2nd International Conference on Advanced Engineering Technologies (ICADET'xx17), Bayburt, Turkey, 21 - 23 September 2017
- XV. **SMART ENERGY-SYSTEMS FOR LARGE-SCALE INTEGRATION OF RENEWABLE ELECTRICAL ENERGY**
ERENTÜRK K.
1st International Conference on Smart Grid Technologies, 11 - 12 September 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, Turkey, 21 - 23 August 2017
- XVII. **Fractional Order Modeling and Control of Smart Grid ConnectedPhotovoltaic PV Energy Generation System**
ERENTÜRK K.
ICONSETE 2016, Barcelona, Spain, 14 - 16 October 2016, pp.114-120
- XVIII. **Application of Electric Springs in Smart Grids**
ERENTÜRK K.
2 INTERNATIONAL CONFERENCE ON SCIENCEECOLOGY AND TECHNOLOGY(ICONSETE'2016), 14 - 16 October 2016
- XIX. **Modeling of drying process using fractional order calculus**
ERENTÜRK K., ERENTÜRK S.
1st International MediterraneanSCIENCE AND ENGINEERING CONGRESS, 26 - 28 October 2016
- XX. **Fractional Order Modeling and Control of Renewable Energy Systems**
ERENTÜRK K., ERENTÜRK S.
KINETIC 2016, 3 - 04 April 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 April 2016

- XXII. **Modeling of Dynamical Industrial Systems Using Fractional Order Calculus**
 ERENTÜRK K.
 ICONSETE 2015, 25 - 28 August 2015
- XXIII. **Fractional Order Controller Design and Applications**
 ERENTÜRK K.
 ICONSETE 2015, 25 - 28 August 2015
- XXIV. **Design and Linear Quadratic Optimal Regulator LQR Control of 6 dof RSS Parallel Manipulator**
 DUMLU A., ERENTÜRK K.
 AMME 2015, 25 - 26 October 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, Thailand, 25 - 26 October 2015, vol.14, pp.99-102
- XXVI. **3 Eksenli CNC İşlem Tezgâhı Tasarımı ve Kontrolü**
 Çorapsız M. F., Erentürk K.
 TOK 2014, Kocaeli, Turkey, 11 - 13 September 2014, pp.34-37
- XXVII. **Portal Tip Üç Eksenli CNC Freze Tezgâhının Tasarımı ve İmalatı**
 ÇORAPSIZ M. F., ERENTÜRK K.
 TOK 2014, Turkey, 11 - 13 September 2014
- XXVIII. **LPG Kullanan Buji Ateşlemeli Motorlarda LPG Yakıt Sıcaklığının Kontrolü**
 GÜNER E., CEVİZ M. A., KALELİ A., ÖNER İ. V., ERENTÜRK K.
 Otomotik Kontrol Ulusal Toplantısı (TOK 2014), Kocaeli, Turkey, 11 - 13 September 2014
- XXIX. **Portal Tip Üç Eksenli CNC Freze Tezgâhının Yörüngé İzleme ve Kontur Kontrolü**
 Çorapsız M. F., Erentürk K.
 TOK 2014, Kocaeli, Turkey, 11 - 13 September 2014, pp.53-58
- XXX. **LPG Enjeksiyon Sistemlerinde LPG Yakıt Sıcaklığı ile Motor Performansı Arasındaki İlişkinin Araştırılması**
 CEVİZ M. A., ÖNER İ. V., KALELİ A., ERENTÜRK K.
 7. Otomotiv Teknolojileri Kongresi (OTEKON-14), Bursa, Turkey, 26 - 27 May 2014
- XXXI. **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, Turkey, 21 - 24 September 2014, pp.299-304

Expert Reports

- 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, vol.2013, pp.1-161, 2015 (Peer-Reviewed Journal)

Supported Projects

- YAVUZ U., ERKAN F., ERKAN Z., ERENTÜRK K., Project Supported by Higher Education Institutions, Mesafe Kontrol ve Elektronik Ateşleme Destekli Fünye, 2020 - 2023
- ERENTÜRK K., BAŞÇI A., Project Supported by Higher Education Institutions, ENDÜSTRİYEL OTOMASYON VE GÜC ELEKTRONİĞİ LABORATUVARI TASARIMI, 2015 - 2016
- Çorapsız M. F., Erentürk K., Project Supported by Higher Education Institutions, Esnek Paralel Mekanizmalı Bir Elektrikli Aracın Hassas Denetimi ve Tasarımı, 2013 - 2014
- ERENTÜRK K., Project Supported by Higher Education Institutions, ESNEK PARALEL MEKANİZMALI BİR ELEKTRİKLİ

ARACIN HASSAS DENETİMİ VE TASARIMI, 2011 - 2013

ERENTÜRK K, Project Supported by Higher Education Institutions, BUJİ ATEŞLEMELİ MOTORLarda ÇEVİRİMSEL FARKLAR ÜZERİNE ATEŞLEME AVANSİNİN ETKİLERİNİN VE KONTROL YÖNTEMERİNİN İNCELENMESİ, 2011 - 2013

Metrics

Publication: 63

Citation (WoS): 690

Citation (Scopus): 832

H-Index (WoS): 12

H-Index (Scopus): 12

Non Academic Experience

Atatürk Üniversitesi