

Prof. Köksal ERENTÜRK

Personal Information

Office Phone: [+90 442 231 4876](tel:+904422314876) Extension: 4876

Fax Phone: [+90 442 231 4876](tel:+904422314876)

Web: <https://avesis.atauni.edu.tr/keren>

International Researcher IDs

ScholarID: WKWAQVYAAAAJ

ORCID: 0000-0001-7536-1351

Yoksis Researcher ID: 119083

Education

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 Positions

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

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

Courses

Doctorate

Bilgisayar Mühendisliğinde Akıllı Kontrol Sistem Tasarımı, Doctorate, 2020 - 2021

Danışmanlık, Doctorate, 2020 - 2021

Bilgisayar Mühendisliğinde Akıllı Kontrol Sistem Tasarımı, Doctorate, 2020 - 2021, 2019 - 2020

Postgraduate

Design of Industrial Electronic Systems and Their Applications on Mechatronics, Postgraduate, 2020 - 2021

Uzmanlık Alan Dersi (Yabancı Uyruklu) I, Postgraduate, 2020 - 2021

Undergraduate

- 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
Sayısal Tasarım, Undergraduate, 2021 - 2022
Bitirme Projesi II, Undergraduate, 2020 - 2021
Otomasyon Sistem Tasarımı, Undergraduate, 2021 - 2022, 2020 - 2021
Bilgisayar Mühendisliği Seçmeli Tasarım II, Undergraduate, 2020 - 2021
Bitirme Projesi II, Undergraduate, 2020 - 2021
Introduction to Computer Engineering, Undergraduate, 2020 - 2021, 2019 - 2020
Bilgisayar Mühendisliği Seçmeli Tasarım I, Undergraduate, 2020 - 2021
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

Journal articles indexed in 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
TOHIDI 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**
EREENTÜRK 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**
EREENTÜRK 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**
EREENTÜRK 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**
 Erentürk K., Erentürk S., TABİL 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

- 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

Papers Presented at Peer-Reviewed Scientific Conferences

- 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, (Full Text)
- 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, (Full Text)
- III. **GÜNEŞ PANELİ BULUNAN MİKRO ŞEBEKE ENERJİ DEPOLAMA SİSTEMLERİNİN TERMINAL SINERJİK DENETLEYİCİ İLE KONTROLÜ**
 Erentürk K., Erentürk S.
 8.ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 6 - 07 December 2021, pp.109-115, (Full Text)
- 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, (Full Text)
- 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, (Full Text)
- 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, (Full Text)
- 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, (Full Text)
- 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, (Full Text)
- 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, (Full Text)
- X. Smart Grid: An Interdisciplinary Engineering Application**
ERENTÜRK K.
The 12th International Conference Interdisciplinarity in Engineering INTER-ENG 2018, 4 - 05 October 2018, (Full Text)
- XI. Innovative Trends on Smart Grids**
ERENTÜRK K.
1st International Symposium on Innovative Approaches in Scientific Studies, 11 - 13 April 2018, (Full Text)
- XII. DESIGN AND IMPLEMENTATION OF PRIMARY CONTROLLERS FOR MICROGRIDS**
ERENTÜRK K., Draou A.
INTERNATIONAL ADVANCED RESEARCHESENGINEERING CONGRESS 2017 (IAREC 2017), Osmaniye, Turkey, 16 - 18 November 2017, pp.953-956, (Full Text)
- 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, (Full Text)
- 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, (Full Text)
- 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, (Full Text)
- 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, (Full Text)
- 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, (Full Text)
- XVIII. Application of Electric Springs in Smart Grids**
ERENTÜRK K.
2 INTERNATIONAL CONFERENCE ON SCIENCECOLOGY AND TECHNOLOGY(ICONSETE'2016), 14 - 16 October 2016, (Full Text)

- 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, (Full Text)
- 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, (Full Text)
- XXII. **Modeling of Dynamical Industrial Systems Using Fractional OrderCalculus**
 ERENTÜRK K.
 ICONSETE 2015, 25 - 28 August 2015, (Full Text)
- XXIII. **Fractional Order Controller Design and Applications**
 ERENTÜRK K.
 ICONSETE 2015, 25 - 28 August 2015, (Full Text)
- XXIV. **Design and Linear Quadratic OptimalRegulator LQR Control of 6 dof RSS ParallelManipulator**
 DUMLU A., ERENTÜRK K.
 AMME 2015, 25 - 26 October 2015, (Summary Text)
- 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, (Full Text)
- XXVI. **3 Eksenli CNC İşlem Tezgâhi Tasarımı ve Kontrolü**
 Çorapsız M. F., Erentürk K.
 TOK 2014, Kocaeli, Turkey, 11 - 13 September 2014, pp.34-37, (Full Text)
- XXVII. **Portal Tip Üç Eksenli CNC Freze Tezgâhinin Tasarımı ve İmalatı**
 ÇORAPSIZ M. F., ERENTÜRK K.
 TOK 2014, Turkey, 11 - 13 September 2014, (Full Text)
- 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, (Full Text)
- XXIX. **Portal Tip Üç Eksenli CNC Freze Tezgâhinin Yörünge İzleme ve Kontur Kontrolü**
 Çorapsız M. F., Erentürk K.
 TOK 2014, Kocaeli, Turkey, 11 - 13 September 2014, pp.53-58, (Full Text)
- 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, (Full Text)
- 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, (Full Text)

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)

Funded Projects

ÖZER S., ERENTÜRK K., Project Supported by Higher Education Institutions, Vücuttaki Antistatik Elektriği Uzun Süre Deşarj Etmeden Depolayan Alet, 2023 - 2024

ERENTÜRK K., KARA B., Project Supported by Higher Education Institutions, DC MİKRO ŞEBEKENİN YENİ KONTROLÖR VE GÖZLEMCİ KULLANILARAK TASARIMI, 2022 - 2024

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 AVANSININ ETKİLERİNİN VE KONTROL YÖNTEMERİNİN İNCELENMESİ, 2011 - 2013

Metrics

Publication: 66

Citation (WoS): 692

Citation (Scopus): 833

H-Index (WoS): 12

H-Index (Scopus): 12

Non Academic Experience

Atatürk Üniversitesi, Öğretim Üyesi