

Prof. HASAN ERDAL

Personal Information

Office Phone: [+90 216 777 4002](tel:+902167774002)

Email: herdal@marmara.edu.tr

Web: <https://avesis.marmara.edu.tr/herdal>



International Researcher IDs

ScholarID: dmSo1zMAAAAJ

ORCID: 0000-0001-8296-0694

Publons / Web Of Science ResearcherID: X-4873-2019

ScopusID: 23990060800

Yoksis Researcher ID: 16138

Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electrical Education, Turkey 1991 - 1998

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electrical Education, Turkey 1987 - 1990

Undergraduate, Marmara University, Faculty of Technical Education, Electric Education, Turkey 1982 - 1986

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Control of a HVAC system by fuzzy logic method, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Elektrik Eğitimi (Dr), 1998

Postgraduate, Solving of transient state equations of asynchronous motor using by computer , Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Elektrik Eğitimi (YI) (Tezli), 1990

Research Areas

Control and System Engineering, Industrial automation, Actuating and Final Control Devices, Control Systems and Instrumentation, Electrical and Electronics Engineering, Electrical Machine Theory and Design

Academic Titles / Tasks

Professor, Marmara University, Faculty of Technology, Electrical and Electronics Engineering, 2016 - Continues

Associate Professor, Marmara University, Faculty of Technology, Electrical and Electronics Engineering, 2010 - 2016

Assistant Professor, Marmara University, Faculty of Technical Education, Electronic and Computer Education, 1999 -

2010

Lecturer PhD, Marmara University, Faculty of Technical Education, Electronic and Computer Education, 1998 - 1999

Lecturer, Marmara University, Faculty of Technical Education, Electronic and Computer Education, 1994 - 1998

Research Assistant, Marmara University, Faculty of Technical Education, Electronic and Computer Education, 1991 - 1994

Research Assistant, Marmara University, Faculty of Technical Education, Electric Education, 1987 - 1991

Academic and Administrative Experience

Marmara University, Faculty of Technology, 2017 - Continues

Head of Department, Marmara University, Faculty of Technology, Electrical and Electronics Engineering, 2018 - 2021

Marmara University, Faculty of Technology, Computer Engineering, 2016 - 2018

Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Bilgisayar Mühendisliği (YI) (Tezli), 2016 - 2018

Marmara University, Faculty of Technology, 2016 - 2017

Supervised Theses

Doğan B., Erdal H., Developing An Optical and Patern Recognition Based Precision Landing System For Rotary wing UAVS, Postgraduate, K.PEHLİVAN(Student), 2022

Aydın S., Erdal H., Sanal ve Artırılmış Gerçeklik Teknolojisiyle Tümlleşik Quantum Bilgisayar Derleyicisi Kullanım Platformunun Gerçekleştirilmesi, Doctorate, H.Hakan(Student), 2022

Altıkardeş Z. A., Erdal H., Design of Product Recommendation System by Using Deep Learning Methods, Postgraduate, E.KANTEPE(Student), 2019

Erdal H., Çelik H. H., Manyetik kaçak akıllar yöntemi ile ferromanyetik malzeme üzerindeki kusurların belirlenmesi, Postgraduate, O.KARA(Student), 2018

Erdal H., Bilgisayar tümlleşik esnek imalat sisteminin (CIM/FMS) mekatronik eğitime entegrasyonu ve müfredat geliştirilmesi, Doctorate, B.DOĞAN(Student), 2018

Erdal H., Korkmaz H., Hibrit ve elektrikli metrobüs araçları için sürüş çevrimi oluşturulması, Doctorate, H.KAYMAZ(Student), 2018

Erdal H., Yenidoğan yoğun bakım ve nakil ventilatörü (yapay solunum cihazı) tasarımı, Postgraduate, F.SERDAR(Student), 2017

Erdal H., HAZIR BETON SANTRALİ OTOMASYONU İÇİN ESNEK YAPIDA SCADA YAZILIMI TASARIMI, Postgraduate, A.OKUMUŞ(Student), 2013

Erdal H., Baba A. F., Tip 2 diabetes mellituslu hastalarda 24 saatlik kan basıncı değışiminin öngörülmesine yönelik uzman sistem tasarımı, Doctorate, Z.AYSUN(Student), 2012

Erdal H., Donanımlı dalış süreci için derinlik kontrol otomasyonunun tasarımı ve oluşturulacak dalış modeli üzerinde simülasyonu, Postgraduate, S.KATRANCIOĞLU(Student), 2012

Erdal H., Güncel yapay zeka tekniklerinin incelenmesi ve eksikliklerinin giderilmesi için hybrid algoritma tasarımı, Postgraduate, Y.PAÇACI(Student), 2011

Erdal H., Otomatik tanıma-veri toplama sistemlerinde RFID teknolojisi ve örnek bir uygulaması, Postgraduate, M.KURU(Student), 2010

Erdal H., Kontrol eğitimi için MATLAB ile web tabanlı uygulama araçlarının geliştirilmesi, Postgraduate, K.SAVAŞ(Student), 2010

Onat M., Erdal H., Birey merkezli öğrenme yöntemi ile endüstriye yönelik SCADA eğitimi, Postgraduate, B.ÇOĞAL(Student), 2010

ERDAL H., PID kontrolörün karınca kolonisi genetik algoritma tabanlı optimizasyonu ve GUNT RT 532 basınç prosesinin kontrolü, Postgraduate, M.Ünal(Student), 2008

Erdal H., Topuz V., PID kontrolörün karınca kolonisi / genetik algoritma tabanlı optimizasyonu ve Gunt RT 532 basınç

prosesinin kontrolü, Postgraduate, M.ÜNAL(Student), 2008
Güney K. R. İ., Erdal H., Hibrid güç üretim sisteminin modellenmesi, analizi ve neuro-fuzzy kontrolör kullanılarak sistem performansının iyileştirilmesi, Doctorate, Y.OĞUZ(Student), 2007
Can B., Erdal H., Eğitim amaçlı bir iklimlendirme odasının yapay zeka teknikleri ile modellenmesi ve kontrolü, Doctorate, Y.İZGİ(Student), 2007
Tunçalp K., Erdal H., MPS modüler üretim sisteminin bilgisayar destekli gerçek zamanlı kontrolü ve teknik eğitime uygulanması, Doctorate, S.TAŞKIN(Student), 2007
Erdal H., Kaptan H., Web üzerinden sistem kontrolü ve uzaktan erişimli laboratuvar uygulaması, Postgraduate, B.DOĞAN(Student), 2007
Erdal H., Servo motorlar ve örnek bir uygulama tasarımı, Postgraduate, O.HANCI(Student), 2007
Temiz İ., Erdal H., Faz değiştirici malzeme (PCM) kullanılarak transformatörlerin soğutulması, Postgraduate, E.BÜYÜKBIÇAKCI(Student), 2006
Baba A. F., Erdal H., Matlab-SIMULINK + PIC tabanlı bulanık mantık denetleyici tasarımı ve gerçek zamanlı sıcaklık kontrolü uygulaması, Postgraduate, Y.BOLAT(Student), 2006
Erdal H., Bir odanın akıllı hale getirilmesi ve uygulaması, Postgraduate, Ö.ÇELİK(Student), 2006
Erdal H., Elektrik kumanda teknikleri dersinin uygulamalarında kullanılacak bir simülatör tasarımı, Postgraduate, V.HALLIYEV(Student), 2005
Erdal H., Adlı M. A., Mobil robot çalışma prensipleri ve mobil robot uygulaması, Postgraduate, A.ATEŞ(Student), 2004
Erdal H., Baba A. F., Gunt RT 522 akış eğitim setinin MATLAB ile gerçek zamanlı (real-time) kontro, Postgraduate, Ö.YAŞAR(Student), 2004
ERDAL H., Mobil robot çalışma prensipleri ve mobil robot uygulaması, Postgraduate, A.Ateş(Student), 2004
Erdal H., Mekatronik donanımlı içten yanmalı motorlarda hava akış ölçerlerle hava kütleli debisinin tespiti ve yakıt-hava karışımı teşkili, Postgraduate, E.YURDAGÜL(Student), 2003

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Marmara Üniversitesi, February, 2021
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Marmara Üniversitesi, February, 2021
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Milli Savunma Üniversitesi, February, 2021
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Milli Savunma Üniversitesi, February, 2020
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Marmara Üniversitesi, July, 2019
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Marmara Üniversitesi, July, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Sağlık Bilimleri Üniversitesi, May, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, February, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Milli Savunma Üniversitesi, December, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Aydın Adnan Menderes Üniversitesi, August, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Bandırma Onyediy Eylül Üniversitesi, April, 2018
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Bandırma Onyediy Eylül Üniversitesi, February, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Afyon Kocatepe Üniversitesi, January, 2018
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, January, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Comprehensive Investigation on Catalytic Behavior of Anaerobic Jar Gassing Systems and Design of an Enhanced Cultivation System**
Sayın F. S., Erdal H., Ulger N. T., Aksu M. B., Guncu M. M.
Bioengineering, vol.11, no.11, pp.1-30, 2024 (SCI-Expanded)
- II. **Technical teacher training program for engineering integration in K-12 education**
Bal S., Sarıkaş A., Yayla A., Başpınar U., Altınay S., Baba A. F., Erdal H., Korkmaz H.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.32, no.4, pp.1-16, 2024 (SCI-Expanded)
- III. **Designing a virtual reality programming environment for quantum computers**
Genc H. H., Aydın S., Erdal H.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.30, no.3, pp.690-707, 2022 (SCI-Expanded)
- IV. **The Role of the Maker Movement in Engineering Education: Student Views on Key Issues of Makerspace Environment**
DOĞAN B., DOĞAN B., ÜLKÜ E. E., BAŞ A., ERDAL H.
INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.36, no.4, pp.1161-1169, 2020 (SCI-Expanded)
- V. **A review of commercial electric vehicle charging methods Ticarî elektrikli araç şarj yöntemlerinin incelenmesi**
TERZİ Ü. K., İlhan H. E., Kaymaz H., ERDAL H., Çalik H.
Promet - Traffic - Traffico, vol.32, no.2, pp.291-307, 2020 (SCI-Expanded)
- VI. **Development of a driving cycle for Istanbul bus rapid transit based on real-world data using stratified sampling method**
Kaymaz H., Korkmaz H., Erdal H.
Transportation Research Part D: Transport and Environment, vol.75, pp.123-135, 2019 (SCI-Expanded)
- VII. **A novel method for dipper/non-dipper pattern classification in hypertensive and non-diabetic patients**
Altıkardeş Z. A., Kayikli A., Korkmaz H., Erdal H., Baba A. F., Fak A. S.
TECHNOLOGY AND HEALTH CARE, vol.27, 2019 (SCI-Expanded)
- VIII. **A New Approach for Transformer Cooling Systems: Application of Phase Change Materials (PCM)**
BÜYÜKBIÇAKCI E., TEMİZ İ., ERDAL H., BÜYÜKBIÇAKCI Z.
ACTA PHYSICA POLONICA A, vol.127, no.4, pp.1013-1015, 2015 (SCI-Expanded)
- IX. **Optimization of PID Controllers Using Ant Colony and Genetic Algorithms Introduction**
ÜNAL M., AK A., TOPUZ V., ERDAL H.
OPTIMIZATION OF PID CONTROLLERS USING ANT COLONY AND GENETIC ALGORITHMS, vol.449, pp.1-3, 2013 (SCI-Expanded)
- X. **Optimization of PID Controllers Using Ant Colony and Genetic Algorithms Conclusion**
ÜNAL M., AK A., TOPUZ V., ERDAL H.
OPTIMIZATION OF PID CONTROLLERS USING ANT COLONY AND GENETIC ALGORITHMS, vol.449, pp.69-72, 2013 (SCI-Expanded)
- XI. **Genetic Algorithm**
ÜNAL M., AK A., TOPUZ V., ERDAL H.
OPTIMIZATION OF PID CONTROLLERS USING ANT COLONY AND GENETIC ALGORITHMS, vol.449, pp.19-29, 2013 (SCI-Expanded)
- XII. **An Application for Process System Control**
ÜNAL M., AK A., TOPUZ V., ERDAL H.
OPTIMIZATION OF PID CONTROLLERS USING ANT COLONY AND GENETIC ALGORITHMS, vol.449, pp.37-68, 2013 (SCI-Expanded)

- XIII. **Ant Colony Optimization (ACO)**
ÜNAL M., AK A., TOPUZ V., ERDAL H.
OPTIMIZATION OF PID CONTROLLERS USING ANT COLONY AND GENETIC ALGORITHMS, vol.449, pp.31-35, 2013 (SCI-Expanded)
- XIV. **Artificial Neural Networks**
ÜNAL M., AK A., TOPUZ V., ERDAL H.
OPTIMIZATION OF PID CONTROLLERS USING ANT COLONY AND GENETIC ALGORITHMS, vol.449, pp.5-17, 2013 (SCI-Expanded)
- XV. **Trajectory tracking performance comparison between genetic algorithm and ant colony optimization for PID controller tuning on pressure process**
ÜNAL M., ERDAL H., TOPUZ V.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.20, no.3, pp.518-528, 2012 (SCI-Expanded)
- XVI. **EXPERIMENT-BASED DETERMINATION of DC MOTOR PARAMETERS and OPTIMIZATION of PARAMETER DETERMINATION RESULTS**
Erdal H., Doğan B.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, pp.589-598, 2012 (SCI-Expanded)
- XVII. **Realtime parameter estimation, calibration and simulation of a DC motor**
ERDAL H., DOĞAN B., BULDU A.
TECHNICS TECHNOLOGIES EDUCATION MANAGEMENT-TTEM, vol.6, no.3, pp.606-614, 2011 (SCI-Expanded)
- XVIII. **Modeling of Hybrid Wind-Gas Power Generation System and Adaptive Neuro-Fuzzy Controller to Improve the System Performance**
OĞUZ Y., GÜNEY K. R. İ., ERDAL H.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.18, no.4, pp.669-683, 2010 (SCI-Expanded)
- XIX. **Controlling of grid connected photovoltaic lighting system with fuzzy logic**
SAĞLAM Ş., Ekren N., ERDAL H.
SOLAR ENERGY, vol.84, no.2, pp.256-262, 2010 (SCI-Expanded)
- XX. **System Control Through the Internet and a Remote Access Laboratory Implementation**
Doğan B., Erdal H.
Lecture Notes In Computer Science, vol.4823, pp.532-541, 2008 (SCI-Expanded)
- XXI. **Design of Adaptive Neuro Fuzzy Inference System for Automatic Generation Control of a Multi Area Power Generation System**
OĞUZ Y., GÜNEY K. R. İ., ERDAL H.
WSEAS Transactions on Power Systems, vol.4, pp.73-80, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Higher Education Planning and Decision Support System with Multi-Class and Imbalanced Educational Dataset: A Case Of Technology Faculty**
Yılmaz E., Altıkardeş A. Z., Erdal H.
Gazi Mühendislik Bilimleri Dergisi, vol.9, no.1, pp.63-78, 2023 (Peer-Reviewed Journal)
- II. **YAPAY ZEKA TEKNİKLERİ ve UZMAN SİSTEMLERİN KARASAL AKILLI ULAŞIM SİSTEMLERİNİN DENETİMİNDEKULLANIMI**
ERDAL H.
Akıllı Ulaşım Sistemleri ve Uygulamaları Dergisi, vol.1, pp.32-39, 2018 (Peer-Reviewed Journal)
- III. **Tahribatsız Test Yöntemleri: Karşılaştırmalı Bir Derleme Çalışması**
Kara O., Çelik H. H., Erdal H.
Marmara Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.29, pp.82-93, 2017 (Peer-Reviewed Journal)
- IV. **THE FUTURE OF INTELLIGENCE TRANSPORTATION SYSTEMS ECONOMICAL AND ENVIRONMENTAL BENEFITS**

TEKTAŞ M., KOKMAZ K., ERDAL H.

BJSS Balkan Journal of Social Sciences, 2016 (Peer-Reviewed Journal)

- V. **Performance evaluation of classification algorithms by excluding the most relevant attributes for dipper non dipper pattern estimation in Type 2 DM patients**
Altıkardeş Z. A., Erdal H., Baba A. F., Fak A. S., Korkmaz H.
International Journal of Computer Information Systems and Industrial Management Applications, vol.8, pp.247-256, 2016 (Scopus)
- VI. **Design and Simulation of A LQG Robust Controller For An Electrical Power System**
OĞUZ Y., ERDAL H., TAŞKIN S.
ISTANBUL UNIVERSITY-JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.8, pp.693-703, 2008 (Scopus)
- VII. **Mekatronik Donanımlı İçten Yanmalı Benzinli Motorların Performans Değerlendirmeleri İçin Yazılım ve Donanım Sisteminin Tasarımı**
YURDAGÜL E., ERDAL H., BABA A. F.
Politeknik Dergisi, vol.8, 2005 (Peer-Reviewed Journal)
- VIII. **Designing a Hardware and Software for the Performance Evaluation of Combustion Engine Equipped with Mechatronics System**
Yurdagul E., ERDAL H., Baba F.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.8, no.1, pp.55-59, 2005 (ESCI)

Books

- I. **Optimization of PID Controllers Using Ant Colony and Genetic Algorithms**
Ünal M., Ak A., Topuz V., Erdal H.
Springer, London/Berlin , Dordrecht, 2013

Papers Published in Refereed Scientific Meetings

- I. **Industry 4.0 and Engineering Education: The case of Modular Production System**
TAŞKIN S., TUNÇALP B. K., ERDAL H.
2. International Conference on Virtual Reality, Şanlıurfa, Turkey, 15 - 16 November 2020, pp.76-80
- II. **A Novel Approach to the Implementation of Cloud-Based Quantum Programming Platforms in VR Environment**
Genç H. H., Aydın S., Erdal H.
2020 Innovations in Intelligent Systems and Applications Conference (ASYU-2020), İstanbul, Turkey, 15 - 17 October 2020
- III. **Product Recommendation System with Explicit Feedback Using Deep Learning Methods**
KANTEPE E., ALTIKARDEŞ Z. A., ERDAL H.
2020 Innovations in Intelligent Systems and Applications Conference (ASYU-2020), İstanbul, Turkey, 15 - 17 October 2020
- IV. **Product Recommendation System with Explicit Feedback Using Deep Learning Methods Açık Geri Bildirim ile Derin Öğrenme Yöntemi Kullanılarak Ürün Öneri Sistemi**
Kantepe E., Altıkardeş Z. A., Erdal H.
2020 Innovations in Intelligent Systems and Applications Conference, ASYU 2020, İstanbul, Turkey, 15 - 17 October 2020
- V. **YÜKSEK HASSASİYETLİ KAYAN NOKTA SAYI HESAPLAMALARINDA BULUT TEMELLİ QUANTUM BİLGİSAYAR PROGRAMLAMA PLATFORMLARININ KULLANIMI**
Genç H. H., Aydın S., Erdal H.
4. ULUSLARARASI MARMARA FEN BİLİMLERİ KONGRESİ, Kocaeli, Turkey, 19 - 20 June 2020, vol.3, pp.387-397

- VI. **Design of Virtual Reality Browser Platform for Programming of Quantum Computers via VR Headsets**
Genç H. H., Aydın S., Erdal H.
2nd International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Ankara, Turkey, 26 - 27 June 2020
- VII. **YÜKSEK HASSASİYETLİ KAYAN NOKTA SAYI HESAPLAMALARINDA BULUTTEMELLİ KUANTUM BİLGİSAYAR PROGRAMLAMA PLATFORMLARININKULLANIMI**
GENÇ H. H., AYDIN S., ERDAL H.
4. International Marmara Sciences Congress (Spring) 2020, Kocaeli, Turkey, 19 - 20 June 2020
- VIII. **Sinirsel hesaplama çubuğunun mini-bilgisayar ortamında koşturulan derin sinir ağları uygulamasına etkisinin incelenmesi**
TİRYAKİ F., DOĞAN B., ERDAL H.
2. International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Nevşehir, Turkey, 21 - 23 June 2019
- IX. **Design, Modelling, Prototyping and Closed Loop Control of a Mechanical Ventilator for Newborn Babies**
SAYIN F. S., ERDAL H.
CEIT 2018 6th International Conference on Control Engineering and Information Technology, 25 - 27 October 2018
- X. **A Novel Method for Dipper/non-Dipper Pattern Prediction in Hypertension and non-Diabetic Patients**
ALTIKARDEŞ Z. A., Kayıklı A., KORKMAZ H., ERDAL H., BABA A. F., FAK A. S.
The 7th International Conference on Biomedical Engineering and Biotechnology, Nanjing, China, 22 - 25 October 2018
- XI. **Trajectory Tracking Fuzzy Logic Controller Design and Implementation for Mechanical Ventilation Devices**
Sayın F. S., KAMIŞLIOĞLU M., Erdal H.
5th International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, 12 - 16 October 2018
- XII. **Real Time Fuzzy Control Implementantion for Mechanical Ventilation Devices**
SAYIN F. S., KAMIŞLIOĞLU M., ERDAL H.
1st International Conference on Physical Chemistry and Functional Materials, 19 - 21 June 2018
- XIII. **Centrifugal Blower Design, CFD Analysis, and Prototyping for Portable Mechanical Ventilators**
SAYIN F. S., ERDAL H., ATMACA M.
1st International Conference on Physical Chemistry and Functional Materials, 19 - 21 June 2018
- XIV. **Validation of Compact Hybrid System for City Buses**
Kaymaz H., ERDAL H.
1. INTERNATIONAL CONFERENCE ON INTELLIGENT TRANSPORTATION SYSTEMS BANU – ITSC’ 18, 19 - 21 April 2018
- XV. **Connected and Autonomous Commercial Vehicle**
Kaymaz H., ERDAL H.
1. INTERNATIONAL CONFERENCE ON INTELLIGENT TRANSPORTATION SYSTEMS BANU – ITSC’ 18, 19 - 21 April 2018
- XVI. **Characteristic Driving Parameters of Brt Istanbul and Evaluation of Hybridization/ Electrification Potential**
Kaymaz H., KORKMAZ H., ERDAL H.
1. INTERNATIONAL CONFERENCE ON INTELLIGENT TRANSPORTATION SYSTEMS BANU – ITSC’ 18, 19 - 21 April 2018
- XVII. **THE FUTURE OF INTELLIGENCE TRANSPORTATION SYSTEMS ECONOMICAL AND ENVIRONMENTAL BENEFITS**
TEKTAŞ M., Korkmaz K., ERDAL H.
ICOMEPE 2016 International Congress of Management Economy and Policy, 26 - 27 November 2016

- XVIII. **Performance evaluation of classification algorithms by excluding the most relevant attributes for dipper/non-dipper pattern estimation in Type-2 DM patients**
ALTIKARDEŞ Z. A., ERDAL H., BABA A. F., FAK A. S., Kokmaz H.
15th International Conference on Intelligent Systems Design and Applications (ISDA), Marrakush, Morocco, 14 December 2015, pp.665-672
- XIX. **Liquid Level Process Control with Fuzzy Logic Based Embedded System**
Celik B., Birtane S., Dikbiyik E., ERDAL H.
9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.874-878
- XX. **Bilgisayar Destekli Yenidoğan Akciğer Simülatörü Tasarımı**
SAYIN F. S., ERDAL H.
TIPTEKNO'15 TIP TEKNOLOJİLERİ ULUSAL KONGRESİ, Muğla, Turkey, 15 - 18 October 2015
- XXI. **MATLAB Simulink Tabanlı Otomatik Kod Üretimi ve Gömülü Anti Windup PI Denetleyici Tasarımı**
Sayın F. S., ERDAL H., DOĞAN B.
Otomatik Kontrol Ulusal Toplantısı, TOK2014, Kocaeli, Turkey, 11 - 13 September 2014
- XXII. **A Study to Classify Non-Dipper/Dipper Blood Pressure Pattern of Type 2 Diabetes Mellitus Patients without Holter Device**
ALTIKARDEŞ Z. A., ERDAL H., BABA A. F., Tezcan H., FAK A. S., KORKMAZ H.
World Congress on Computer Applications and Information Systems (WCCAIS), Hammamet, Tunisia, 17 - 19 January 2014
- XXIII. **Hazır Beton Santrali İçin Düşük Maliyetli Otomasyon Sistemi ve SCADA Yazılımı Tasarımı**
Okumuş A., Erdal H.
Otomatik Kontrol Ulusal Toplantısı, TOK2013, Malatya, Turkey, 26 - 28 September 2013, pp.1340-1343
- XXIV. **MATLAB Simulink Response Optimization Aracı ROA ile Kontrolör Katsayılarının Belirlenmesi**
ERDAL H., DOĞAN B.
Otomatik Kontrol Ulusal Toplantısı ve Sergisi, TOK2013, Malatya, Turkey, 26 - 28 September 2013
- XXV. **SCADA Arayüzü Kullanan PLC Destekli ve PID Denetimli Bir HVAC Eğitim Setinin Geliştirilmesi**
YOLAL M. A., SAVAŞ K., ERDAL H.
Otomatik Kontrol Ulusal Toplantısı 2013 (TOK 2013), Malatya, Turkey, 26 - 28 September 2013, pp.649-654
- XXVI. **ABPM Ölçümü Olmaksızın Karar Ağaçları Algoritması ile Non Dipper Dipper Öngörüsü**
ALTIKARDEŞ Z. A., ERDAL H., BABA A. F., FAK A. S.
IX. Ulusal Tıp Bilişimi Kongresi, Antalya, Turkey, 15 - 17 November 2012
- XXVII. **Remote Access Control Laboratory Implementation Academic Success Analysis**
ERDAL H., ERSOY S., DOĞAN B.
The 6th International Computer and Instructional Technologies Symposium, ICITS2012, Gaziantep, Turkey, 4 - 06 October 2012, pp.206
- XXVIII. **A Machine Learning Algorithm to Predict Non Dipper Blood Pressure Pattern Without the Use of 24 Hour Blood Pressure Monitoring**
ALTIKARDEŞ Z. A., ERDAL H., BABA A. F., BİLGİN D., ONAT F., TOKAY S., DEYNELİ O., HAKAN T., FAK A. S., ÖZENER İ. Ç.
8th Mediterranean Meeting on Hypertension and Atherosclerosis International Congress, Muğla, Turkey, 6 - 10 April 2011
- XXIX. **Web Based Control Simulations Environment WBCSE for Control Education with MATLAB**
ÜNAL M., SAVAŞ K., TOPUZ V., ERDAL H.
International Educational Technology Conference (IETC 2010), 01 September 2010
- XXX. **Web Automatic Control Simulation Environment System (ACSES) Designed As A Virtual Tool For Control Education**
SAVAŞ K., ERDAL H.
World Conference on Educational Sciences 2010 (WCES 2010), İstanbul, Turkey, 4 - 08 February 2010, vol.2, pp.5233-5237
- XXXI. **A modular and low-cost data acquisition card design with multitasking support**

Katrancıoğlu S., SAVAŞ K., ERDAL H.

2nd World Conference on Educational Sciences (WCES-2010), İstanbul, Turkey, 4 - 08 February 2010, vol.2, pp.5266-5270

- XXXII. **An internet-based real-time remote automatic control laboratory for control education**
Ugur M., SAVAŞ K., ERDAL H.
2nd World Conference on Educational Sciences (WCES-2010), İstanbul, Turkey, 4 - 08 February 2010, vol.2, pp.5271-5275
- XXXIII. **Automatic control simulation environment system (ACSES) designed as a virtual tool for control education**
SAVAŞ K., ERDAL H.
2nd World Conference on Educational Sciences (WCES-2010), İstanbul, Turkey, 4 - 08 February 2010, vol.2, pp.5233-5237
- XXXIV. **Interface Design for Automation of the Scanning EMG Method**
Doğan B., Göker İ., Baslo M. B., Erdal H., Ülgen Y.
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.265-266
- XXXV. **A simulator for the course of Electromechanical Control Techniques**
ERDAL H., Halliyev V.
10th WSEAS International Conference on Automatic Control, Modelling and Simulation, İstanbul, Turkey, 27 - 30 May 2008, pp.221-223
- XXXVI. **System control through the internet and a remote access laboratory implementation**
Doğan B., Erdal H.
6th International Conference on Web Based Learning (ICWL 2007), Edinburgh, Saint Helena, 15 - 17 August 2007, vol.4823, pp.532-534
- XXXVII. **Uzaktan Erişimli Laboratuvar Uygulamaları İçin Yazılım Tasarımı**
DOĞAN B., ERDAL H.
Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu UMES2007, Kocaeli, Turkey, 20 - 22 June 2007, pp.58-61
- XXXVIII. **Bağlama Çalan Bir Mekanizmanın Tasarımı ve Gerçekleştirilmesi**
Erişti E., ERDAL H.
4. Otomasyon Sempozyumu, Turkey, 23 - 25 May 2007
- XXXIX. **ISAC Robot Kolunun Yörünge Takibi için PID Kontrolörün Genetik Algoritma İle Optimizasyonu**
ÜNAL M., ERDAL H., TOPUZ V., ERGÜZEL T. T.
Ulusal Teknik Eğitim ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu (UMES'07), Turkey, 1 - 03 June 2005
- XL. **PM DC Makina Kullanılarak Bilgisayar Destekli Tako Generatör Tasarımı ve Ölçüm Uygulamaları**
ERDAL H., ONAT M.
V.Ulusal Ölçümbilim Kongresi, Turkey, 9 - 10 October 2003
- XLI. **Real Time Speed Control Implementation of PM DC Motor Using xPC Target And Simulink**
ONAT M., ERDAL H.
3rd International Advanced Technologies Symposium, 18 - 20 August 2003
- XLII. **Metal Deneklerin Isıl Uzama Miktarı Ölçümüne Yönelik Tasarlanan Sistemde Fırın İçi Sıcaklığın Çok Bölge ve Farklı Şartlara Uyumlu Bulanık Mantık Denetleyici İle Kontrolü**
KORKMAZ H., CAN B., ERDAL H.
3rd International Advanced Technologies Symposium, 18 - 20 August 2003
- XLIII. **A Novel Simulator For Sequential Control Techniques**
ERDAL H., HALLIYEV V., ONAT M.
3rd International Advanced Technologies Symposium, 18 - 20 August 2003
- XLIV. **Fuzzy Control of HVAC System**
ERDAL H., CAN B.
3rd International Symposium on Intelligent Manufacturing Systems, 30 - 31 August 2001
- XLV. **Neurocontrol of Air Speed of HVAC Experimental Room**
KUZUCUOĞLU A. E., CAN B., ERDAL H.

3rd International Symposium on Intelligent Manufacturing Systems, Turkey, 30 - 31 August 2001

XLVI. İklimlendirme Odasının Matematik Modeli Ve Simülasyonunun Yapılması

Taşdelen İ., BABA A. F., ERDAL H., KUZUCUOĞLU A. E.

Eleco'2000, Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 8 - 12 November 2000

XLVII. Kapalı Bir Ortam Sıcaklığının Bulanık Kontrolü

ERDAL H., KUZUCUOĞLU A. E., BABA A. F., CAN B.

2nd Advanced Technologies Symposium, Turkey, 8 - 10 March 1999

XLVIII. Bir İklimlendirme Odasının Kontrol Eğitiminde Kullanılması

ERDAL H., CAN B., KUZUCUOĞLU A. E.

1. Mesleki ve Teknik Eğitim Sempozyumu, Karabük, Turkey, 6 - 08 August 1998

XLIX. Elektrik Enerjisi Üretim Tesislerinin Çevre Açısından Değerlendirilmesi

Kentli F., ERDAL H.

Enerji Ve Çevre Sempozyumu, Turkey, 6 - 08 May 1993

Supported Projects

Erdal H., Ülger N., Aksu M. B., Sayın F. S., Güncü M., Project Supported by Higher Education Institutions, Anaerobik/Mikroaerofilik/Kapnofilik Bakteri Kültürleme Sistemi Geliştirilmesi, 2023 - 2024

Erdal H., Başpınar U., Çelik H. H., Demir Ö., Onat A., TUBITAK Project, 2019 Yılı Marmara Üniversitesi İle CANOVATE A.Ş. İşbirliği Sanayi Doktora Projesi, 2020 - 2024

Erdal H., Oral B., Aküner M. C., Çakır M., TUBITAK Project, 2019 Yılı Marmara Üniversitesi ile BEST A.Ş. İşbirliği Sanayi Doktora Projesi, 2020 - 2024

Bal S., Korkmaz H., Erdal H., Baba A. F., Sarıkış A., Yayla A., Başpınar U., Altınay S., TUBITAK Project, INNOVATIVE METHODS FOR COMPUTER SCIENCES AND DIGITAL SYSTEMS EDUCATION, 2021 - 2022

Erdal H., Doğan B., Tiryaki F., Project Supported by Higher Education Institutions, İHA Üzerinden Derin Öğrenme Tabanlı Nesne Belirlenmesi ve GNSS Konum Koordinatlarının Hesaplanması, 2019 - 2020

Pazarlıoğlu S. S., Hartomacıoğlu S., Ekici B., Kurt M., Onat A., Usta İ., Sayın C., Kentli A., Erdal H., Akkuş N., et al., Development Agency, Marmara Üniversitesi Ürün Geliştirme Merkezi (MÜRGEEMER) Kurulumu Projesi, 2018 - 2020

Yıldız K., Ülkü E. E., Buldu A., Erdal H., Demir Ö., Doğan B., Bal A., Project Supported by Higher Education Institutions, Gömülü Sistemler Laboratuvarı ve Altyapı Projesi, 2017 - 2018

Erdal H., Sayın F. S., Project Supported by Higher Education Institutions, Yüksek Frekanslı Yenidoğan Yoğun Bakım Ventilatorü (Yapay Solunum Cihazı), 2015 - 2017

Dursun E., Bayar H., Birbir Y., Varbak Neşe S., Baba A. F., Oral B., Erdal H., Oyman Serteller N. F., Terzi Ü. K., Kıyak İ., et al., Project Supported by Higher Education Institutions, ELEKTRİK MAKİNELERİ VE DEVRELER LABORATUVARLARININ YENİDEN YAPILANDIRILMASI, 2014 - 2016

Erdal H., Baba A. F., Altıkardes Z. A., Project Supported by Higher Education Institutions, RFID İle Elde Edilen İşaretlerin Uzman Sistem Yardımıyla Değerlendirilmesi, 2008 - 2010

Erdal H., Doğan B., Korkmaz H., Altıkardes Z. A., Project Supported by Higher Education Institutions, Internet Based Control Of Gunt Process Training System, 2005 - 2007

Activities in Scientific Journals

International Periodical of Recent Technologies in Applied Engineering, Editor, 2019 - Continues

Peer Reviews in Scientific Publications

BIOMEDICAL SIGNAL PROCESSING AND CONTROL, Journal Indexed in SCI-E, November 2020

Neural Computing & Applications, Journal Indexed in SCI-E, December 2019

COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, Journal Indexed in SCI-E, October 2016

Marmara Fen Bilimleri Dergisi , Other Indexed Journal, February 2016

ERCİYES ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, Other Indexed Journal, December 2014

ERCİYES ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, Other Indexed Journal, December 2014

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, September 2013

Metrics

Publication: 81

Citation (WoS): 63

Citation (Scopus): 145

H-Index (WoS): 5

H-Index (Scopus): 7

Non Academic Experience

Purdue Üniversitesi, YÖK-Dünya Bankası Projesi kapsamında 9 Aylık Görev