

## Prof. HASAN ERDAL

### Personal Information

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

**Email:** [herdal@marmara.edu.tr](mailto: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

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

Erdal H., Bilgisayar tümlleşik esnek imalat sisteminin (CIM/FMS) mekatronik eğitime entegrasyonu ve müfredat geliştirilmesi, Doctorate, B.DOĞAN(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 dalgı süreci için derinlik kontrol otomasyonunun tasarımı ve oluşturulacak dalgı 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., Servo motorlar ve örnek bir uygulama tasarımı, Postgraduate, O.HANCI(Student), 2007

Erdal H., Kaptan H., Web üzerinden sistem kontrolü ve uzaktan erişimli laboratuvar uygulaması, Postgraduate, B.DOĞAN(Student), 2007

Baba A. F., Erdal H., Matlab-SIMULINK + PIC tabanlı bulanık mantık denetleyici tasarımı ve gerçek zamanlı sıcaklık kontrolü uygulaması, Postgraduate, Y.BOLAT(Student), 2006

Temiz İ., Erdal H., Faz değiştirici malzeme (PCM) kullanılarak transformatörlerin soğutulması, Postgraduate, E.BÜYÜKBIÇAKCI(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., Baba A. F., Gunt RT 522 akış eğitim setinin MATLAB ile gerçek zamanlı (real-time) kontro, Postgraduate, Ö.YAŞAR(Student), 2004

Erdal H., Adlı M. A., Mobil robot çalışma prensipleri ve mobil robot uygulaması, Postgraduate, A.ATEŞ(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, Milli Savunma Üniversitesi, February, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Marmara 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-Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, January, 2018

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Manisa Celal Bayar 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., Sarıkış 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 Tıcarı 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 & Book Chapters

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

## Refereed Congress / Symposium Publications in Proceedings

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

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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

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## Activities in Scientific Journals

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

## Scientific Refereeing

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

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## **Metrics**

Publication: 81

Citation (WoS): 63

Citation (Scopus): 137

H-Index (WoS): 5

H-Index (Scopus): 7

## **Non Academic Experience**

Purdue Üniversitesi