

Prof. AHMET ERDİL

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International Researcher IDs

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Publons / Web Of Science ResearcherID: F-4808-2018

ScopusID: 35233097500

Yoksis Researcher ID: 10263

Education Information

Doctorate, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği Bölümü, Turkey 1992 - 1997

Postgraduate, Yıldız Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği Bölümü, Turkey 1988 - 1991

Undergraduate, Yıldız Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği Bölümü, Turkey 1984 - 1988

Research Areas

Energy, Fluid Mechanics, Pressure Vessels and Piping, Fluid Machinery, Thermodynamics, Fuels and Combustion, Internal Combustion Engines, Computational fluid dynamics, Thermal Systems, Thermal machines

Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2012 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2006 - 2012

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2001 - 2006

Assistant Professor, Sakarya University, Faculty Of Engineering, Department Of Mechanical Engineering, 1998 - 2001

Research Assistant, Sakarya University, Faculty Of Engineering, Department Of Mechanical Engineering, 1989 - 1998

Academic and Administrative Experience

Head of Department, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2016 - Continues

Head of Department, Kocaeli University, Fen Bilimleri Enstitüsü, 2016 - Continues

Director of Vocational School, Kocaeli University, Hereke Ö.İ. Uzunyol Meslek Yüksekokulu, 2015 - 2016

University Executive Board Member, Kocaeli University, Fen Bilimleri Enstitüsü, 2015 - 2016

Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, 2007 - 2009

Courses

Akışkanlar Mekaniği, Undergraduate, 2023 - 2024

Termodinamik, Undergraduate, 2023 - 2024

hidrolik pnömatik, Undergraduate, 2022 - 2023

PROSES KONTROL, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The prediction of meteorological variables using artificial neural network**
ERDİL A., Arcaklioglu E.
Neural Computing and Applications, vol.22, pp.1677-1683, 2013 (SCI-Expanded)
- II. **Wavelet analysis of turbulent velocity fields in a spark ignition engine**
ERDİL A.
International Journal of Vehicle Design, vol.54, no.2, pp.123-136, 2010 (SCI-Expanded)
- III. **Prediction of performance and exhaust emissions of a diesel engine fueled with biodiesel produced from waste frying palm oil**
ÇANAKCI M., ÖZSEZEN A. N., Arcaklioglu E., ERDİL A.
Expert Systems with Applications, vol.36, no.5, pp.9268-9280, 2009 (SCI-Expanded)
- IV. **Decomposition of forced turbulent jet flows**
ERDİL A., ERTUNÇ H. M., YILMAZ T.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.223, no.4, pp.919-933, 2009 (SCI-Expanded)
- V. **Hot wire probe calibration using artificial neural network**
ERDİL A., Arcaklioglu E.
Transactions of the Institute of Measurement & Control, vol.31, no.2, pp.153-166, 2009 (SCI-Expanded)
- VI. **A comparative study of turbulent velocity fields in an internal combustion engine with shrouded valve and flat/bowl piston configurations**
ERDİL A., Kodal A.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.221, no.12, pp.1597-1607, 2007 (SCI-Expanded)
- VII. **Optimum operating conditions of irreversible solar driven heat engines**
YILMAZ T., ÜST Y., ERDİL A.
Renewable Energy, vol.31, no.9, pp.1333-1342, 2006 (SCI-Expanded)
- VIII. **Performance and exhaust emissions of a biodiesel engine**
ÇANAKCI M., ERDİL A., Arcaklioglu E.
Applied Energy, vol.83, no.6, pp.594-605, 2006 (SCI-Expanded)
- IX. **Exergy optimization for an irreversible combined cogeneration cycle**
ERDİL A.
Journal of the Energy Institute, vol.78, no.1, pp.27-31, 2005 (SCI-Expanded)
- X. **Decomposition of turbulent velocity fields in an SI engine**
ERDİL A., Kodal A., AYDIN K.
Flow, Turbulence and Combustion, vol.68, no.2, pp.91-110, 2002 (SCI-Expanded)

ARTICLES PUBLISHED IN OTHER JOURNALS

- I. **Internet Controlled Mobile Robot**
KAPLAN K., KUNCAN M., Nural O., ERDİL A.
IJNES - International Journal of Natural and Engineering Sciences, vol.11, no.3, pp.19-23, 2017 (Peer-Reviewed Journal)
- II. **Controlling Of Water Temperature And Flow Rate**
KUNCAN M., KAPLAN K., GÜNER H. E., Umucu A., ERDİL A.
IJNES - International Journal of Natural and Engineering Sciences, vol.11, no.2, pp.44-46, 2017 (Peer-Reviewed Journal)
- III. **FUZZY NEURAL NETWORK CONTROLLER AS A REAL TIME CONTROLLER USING PSO**
ÖZTÜRK S., KARAKUZU C., KUNCAN M., ERDİL A.
Academic Platform Journal of Engineering and Science - APJES, vol.5, pp.15-22, 2017 (Peer-Reviewed Journal)
- IV. **Power Density Analysis of an Endoreversible Braysson Cycle**
KODAL A., ŞAHİN B., ERDİL A.
Journal of Naval Science and Engineering, vol.1, pp.119-132, 2003 (Peer-Reviewed Journal)
- V. **Performance analysis of a two-stage irreversible heat pump under maximum heating load per unit total cost conditions**
KODAL A., ŞAHİN B., ERDİL A.
Exergy, An International Journal, vol.2, no.3, pp.159-166, 2002 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **MAKİNE ÖĞRENMESİ KULLANILARAK ENDÜSTRİYEL ISIL İŞLEM FIRININDA KESTİRİMCİ BAKIM CALIŞMASININ GERÇEKLEŞTİRİLMESİ**
Kızıltan O., ERDİL A.
5.ULUSLARARASI MÜHENDİSLİK VE TEKNOLOJİ YÖNETİMİ KONGRESİ, 24 April 2021, pp.344-352
- II. **İKİ EKSEN AKTİF KORUMA SİSTEMİNİN KONTROLÜ**
fazlıoğlu e., ERDİL A.
INTERNATIONAL AGEAN SYMPOSIUM ON INNOVATIVE INTERDISCIPLINARY SCIENTIFIC RESEARCHES, 26 - 27 March 2019
- III. **Pnömatik Silindirin Hassas Konum Kontrolü**
şenol m. t., ERDİL A.
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı, Turkey, 12 - 14 September 2018, pp.76-81
- IV. **Pipe Inspection Robot**
Gökçedağlıoğlu A., Kersolar C., KAPLAN K., ERDİL A.
5th International Symposium on Innovative Technologies in Engineering and Science (ISITES'17), Baku, Azerbaijan, 29 - 30 September 2017, pp.829-837
- V. **2d Cartesian Robot Controlling By Eye Tracking**
Karabulut B., Yağız İ. A., KAPLAN K., ERDİL A.
5th International Symposium on Innovative Technologies in Engineering and Science (ISITES'17), Baku, Azerbaijan, 29 - 30 September 2017, pp.819-828
- VI. **Internet Controlled Mobile Robot**
nural o., doğan m., yenen y., bostancı c., KAPLAN K., KUNCAN M., ERDİL A.
INTERNATIONAL CONGRESS ON NATURAL AND ENGINEERING SCIENCES, üsküp, Macedonia, 1 - 05 September 2016
- VII. **Specified Water Temperature and Quantity Obtaining by On Off Control**
umucu a., bozkurt c., kaan d., cam s., kotaman d., KUNCAN M., KAPLAN K., GÜNER H. E., ERDİL A.
INTERNATIONAL CONGRESS ON NATURAL AND ENGINEERING SCIENCES, üsküp, Macedonia, 1 - 05 September 2016
- VIII. **Real Time PI Implementation on Flow Rate Control Using with PLC**
çiftçi ö. a., kaçar e., yıldırım m., bilgin u., turhan y., KAPLAN K., GÜNER H. E., KUNCAN M., ERDİL A.

INTERNATIONAL CONGRESS ONNATURAL AND ENGINEERING SCIENCES, üsküp, Macedonia, 1 - 05 September 2016

- IX. **Fuzzy Neural Network Controller As A RealTime Controller Using Pso**
ÖZTÜRK S., KARAKUZU C., KUNCAN M., ERDİL A.
ISITES2015, 3 - 05 July 2015
- X. **System design with SCADA in process laboratory**
Gülle S., ERDİL A.
Proceedings of the IEEE International Conference on Mechatronics 2004, ICM'04, İstanbul, Turkey, 3 - 05 June 2004, pp.492-496
- XI. **The Decomposition of Turbulent Flows in a Forced Jet**
ERDİL A., ERTUNÇ H. M., YILMAZ T.
Proceedings of the IEEE International Conference on Mechatronics, 3 - 05 June 2004
- XII. **The decomposition of turbulent flow in a forced jet**
Erdil A., Ertunc H., Yilmaz T.
IEEE International Conference on Mechatronics (ICM 2004), İstanbul, Turkey, 3 - 05 June 2004, pp.542-547
- XIII. **Decomposition of Turbulent Velocity Signals using Moving Average Filter**
ERDİL A., ERTUNÇ H. M., KANDİLLİ İ., AYDIN K.
Second International Conference on Electrical and Electronics Engineering,ELECO2001, Bursa, Turkey, 7 - 11 November 2001, vol.1, pp.241-245
- XIV. **Termal Bariyer Kaplamanın Turbo Doldurmalı Bir Dizel Motorunun Egzoz Gaz Ekserji Akısına Etkisi**
YAŞAR H., BÜYÜKKAYA E., ERDİL A.
12. Ulusal Isı Bilimi ve Tekniği Kongresi, (ULIBKT'99), Turkey, 28 February 1999
- XV. **Ricardo E6/T Motorunun Yanma Odasında Türbülanslı Hız Datalarının Yeni Bir Yöntemle Ayrıklaştırılması**
ERDİL A., KODAL A., YAŞAR H.
12. Ulusal Isı Bilimi ve Tekniği Kongresi, (ULIBKT'99), Turkey, 28 February 1999
- XVI. **Bir Benzinli Motorun Yanma Odası Hız Alanlarının Zaman Serileri ile Modellenmesi**
ERDİL A., KODAL A., AYDIN K.
Beşinci Yanma Sempozyumu,(Uluslararası), 21 - 23 July 1997
- XVII. **Orthogonal Structures of Velocity Fields in a S.I. Engine**
ERDİL A., KODAL A., AYDIN K.
Fifth Combustion Symposium (International), 21 - 23 July 1997
- XVIII. **Benzinli Motor Yanma Odası İçi Hız Alanlarının Türbülans Filtresi Uygulanarak İncelenmesi**
ERDİL A., KODAL A., AYDIN K.
Uluslararası Katılımlı Otomotiv Teknolojisi Bilim Haftası'97 (OTBH'97), 26 - 30 May 1997
- XIX. **Orthogonal Structures in Gaseous Detonations**
KODAL A., KADI İ., ERDİL A.
Fourth Combustion Symposium (International), 19 - 21 July 1995
- XX. **Karmaşık Organize Sinyallerin Türbülans Filtresi ile Süzülmesi**
ERDİL A., KODAL A.
3. Sinyal İşleme ve Uygulamaları Kurultayı, Turkey, 26 - 28 May 1995

Supported Projects

ERDİL A., FAZLIOĞLU E., Project Supported by Higher Education Institutions, AKTİF KORUMA SİSTEMLERİNDE NAMLU YÖNLENDİRİLMESİ, 2018 - 2018

ERDİL A., Project Supported by Higher Education Institutions, FESTO MPA DENEY SETİNİN FARKLI KONTROL YÖNTEMLERİ KULLANILARAK GERÇEK ZAMANLI MODELLENMESİ VE KONTROLÜ, 2014 - 2015

ERDİL A., Project Supported by Higher Education Institutions, Mekatronik Mühendisliğinde Proses Ölçme Ve Kontrol Deneyisel Altyapı Çalışması, 2010 - 2010

Metrics

Publication: 36

Citation (WoS): 571

Citation (Scopus): 688

H-Index (WoS): 6

H-Index (Scopus): 7

Non Academic Experience

Kocaeli Üniversitesi

Kocaeli Üniversitesi

Kocaeli Üniversitesi

Sakarya Üniversitesi

Jandarma Genel Komutanlığı J.İkmal Merkezi

Sakarya Üniversitesi

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