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Personal Information

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Education Information

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

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

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

Research Areas

Energy, Thermodynamics

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

Kocaeli Üniversitesi, Mühendislik Fakültesi, 2016 - Continues

Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, 2016 - Continues

Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, 2015 - Continues

Kocaeli Üniversitesi, Hereke Ömer İsmet Uzunyol Meslek Yüksekokulu, 2015 - 2016

Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, 2007 - 2009

Kocaeli Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2001 - 2003

Courses

Akışkanlar Mekaniği, Undergraduate

hidrolik pnömatik, Undergraduate

PROSES KONTROL, Undergraduate

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **The prediction of meteorological variables using artificial neural network**
ERDİL A., Arcaklioglu E.
Neural Computing and Applications, vol.22, pp.1677-1683, 2013 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- IX. **Exergy optimization for an irreversible combined cogeneration cycle**
ERDİL A.
Journal of the Energy Institute, vol.78, no.1, pp.27-31, 2005 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)

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, pp.19-23, 2017 (Refereed Journals of Other Institutions)
- 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, pp.44-46, 2017 (Refereed Journals of Other Institutions)
- 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 (Refereed Journals of Other Institutions)

Institutions)

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 (Refereed Journals of Other Institutions)

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 (Refereed Journals of Other Institutions)

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 ONNATURAL 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 ONNATURAL 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., 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 Deneysel Altyapı Çalışması, 2010 - 2010

Citations

Total Citations (WOS):514

h-index (WOS):6