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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, University of Strathclyde, Elektrik-Elektronik Mühendisliği, İngiltere 1992 - 1995

Yüksek Lisans, Gaziantep Üniversitesi, Elektrik-Elektronik Mühendisliği, Türkiye 1988 - 1991

Lisans, Orta Doğu Teknik Üniversitesi, Elektrik-Elektronik Mühendisliği, Türkiye 1984 - 1988

Araştırma Alanları

Bilgi Sistemleri, Haberleşme ve Kontrol Mühendisliği, Kontrol ve Sistem Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Çukurova Üniversitesi, Mühendislik Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2005 - Devam Ediyor

Mesleki Deneyim

Anabilim/Bilim Dalı Başkanı, Çukurova Üniversitesi, Mühendislik Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2008 - Devam Ediyor

Verdiği Dersler

PROCESS INSTRUMENTATION AND CONTROL, Lisans, 2014 - 2015

CONTROLLER IMPLEMENTATION II, Yüksek Lisans, 2014 - 2015

PROCESS CONTROL, Lisans, 2014 - 2015

PROCESS CONTROLLER DESIGN, Lisans, 2014 - 2015

CONTROL THEORY, Lisans, 2014 - 2015

CONTROLLER IMPLEMENTATION I, Yüksek Lisans, 2014 - 2015

Semiconductor Devices, Lisans, 2014 - 2015

SOFT COMPUTING CONTROL, Doktora, 2014 - 2015

ADAPTIVE CONTROL STRATEGIES, Doktora, 2013 - 2014

INTRODUCTION TO MODERN CONTROL, Yüksek Lisans, 2012 - 2013

Yönetilen Tezler

EKER İ., Control of Time-Delayed Systems with Experimental Applications, Doktora, N.SİNAN(Öğrenci), 2018

EKER İ., Adaptive Fuzzy Type-2 in Control of 2-DOF Helicopter, Yüksek Lisans, D.MAUCHE(Öğrenci), 2016
EKER İ., High order sliding mode control with applications, Doktora, M.FURAT(Öğrenci), 2014
EKER İ., Observer based fault detection and isolation and experimentally application to electromechanical systems, Doktora, A.ALKAYA(Öğrenci), 2012
EKER İ., Self-tuning PID Control with Experimental Applications, Yüksek Lisans, S.SERHAN(Öğrenci), 2009
EKER İ., Performance analysis of unified power flow controller (UPFC) by using different controllers, Yüksek Lisans, L.SARIBULUT(Öğrenci), 2008
EKER İ., Adaptive Control of Nonlinear Systems with Applications, Doktora, T.KARA(Öğrenci), 2005
EKER İ., Fuzzy Logic Control and its Applications, Yüksek Lisans, Y.TORUN(Öğrenci), 2004
EKER İ., Governor Control in Hydropower Stations, Yüksek Lisans, İ.ŞAMİL(Öğrenci), 2001
EKER İ., Mathematical Modelling of Water Supply Systems, Yüksek Lisans, T.KARA(Öğrenci), 1999

Jüri Üyelikleri

Doçentlik Sınavı, DOÇENTLİK SINAV JÜRİLİĞİ, ÜNİVERSİTELER ARASI KURUL, Şubat, 2015
Doçentlik Sınavı, DOÇENTLİK SINAV JÜRİLİĞİ, ÜNİVERSİTELER ARASI KURUL, Ekim, 2014

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Design of an optimal fractional fuzzy gain-scheduled Smith Predictor for a time-delay process with experimental application**
Ozbek N. S. , EKER İ.
ISA TRANSACTIONS, cilt.97, ss.14-35, 2020 (SCI İndekslerine Giren Dergi)
- II. **A Novel Modified Delay-Based Control Algorithm with Experimental Application**
Ozbek N. S. , EKER İ.
INFORMATION TECHNOLOGY AND CONTROL, cilt.48, ss.90-103, 2019 (SCI İndekslerine Giren Dergi)
- III. **Adaptive approximate input-output linearizing control with applications to ball and beam mechanism**
Kara T., EKER İ.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, cilt.40, ss.1201-1211, 2018 (SCI İndekslerine Giren Dergi)
- IV. **Chattering-eliminated adaptive sliding-mode control: an experimental comparison study**
FURAT M., EKER İ.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.24, ss.605-620, 2016 (SCI İndekslerine Giren Dergi)
- V. **An Interactive Computer-Aided Instructional Strategy and Assessment Methods for System Identification and Adaptive Control Laboratory**
OZBEK N. S. , EKER İ.
IEEE TRANSACTIONS ON EDUCATION, cilt.58, ss.297-302, 2015 (SCI İndekslerine Giren Dergi)
- VI. **Computer-Aided Experimental Modeling of a Real System Using Graphical Analysis of a Step Response Data**
FURAT M., EKER İ.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, cilt.22, ss.571-582, 2014 (SCI İndekslerine Giren Dergi)
- VII. **Second-order integral sliding-mode control with experimental application**
Furat M., EKER İ.
ISA TRANSACTIONS, cilt.53, ss.1661-1669, 2014 (SCI İndekslerine Giren Dergi)
- VIII. **Luenberger observer-based sensor fault detection: online application to DC motor**
Alkaya A., EKER İ.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.22, ss.363-370, 2014 (SCI İndekslerine Giren Dergi)

- IX. **Comments on second-order sliding mode fault-tolerant control of heat recovery steam generator boiler in combined cycle power plants**
Eker I.
APPLIED THERMAL ENGINEERING, cilt.58, ss.570, 2013 (SCI İndekslerine Giren Dergi)
- X. **Second-Order Sliding Mode Control with PI Sliding Surface and Experimental Application to an Electromechanical Plant**
Eker I.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.37, ss.1969-1986, 2012 (SCI İndekslerine Giren Dergi)
- XI. **Variance sensitive adaptive threshold-based PCA method for fault detection with experimental application**
Alkaya A., EKER İ.
ISA TRANSACTIONS, cilt.50, ss.287-302, 2011 (SCI İndekslerine Giren Dergi)
- XII. **Second-order sliding mode control with experimental application**
Eker I.
ISA TRANSACTIONS, cilt.49, ss.394-405, 2010 (SCI İndekslerine Giren Dergi)
- XIII. **Sliding mode control with integral augmented sliding surface: design and experimental application to an electromechanical system**
EKER İ., Akinal S. A.
ELECTRICAL ENGINEERING, cilt.90, ss.189-197, 2008 (SCI İndekslerine Giren Dergi)
- XIV. **Fuzzy logic control to be conventional method**
Eker I., TORUN Y.
ENERGY CONVERSION AND MANAGEMENT, cilt.47, ss.377-394, 2006 (SCI İndekslerine Giren Dergi)
- XV. **Hybrid control for robotic manipulators**
KIRECCI A., Eker I.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, cilt.220, ss.81-89, 2006 (SCI İndekslerine Giren Dergi)
- XVI. **Sliding mode control with PID sliding surface and experimental application to an electromechanical plant**
Eker I.
ISA TRANSACTIONS, cilt.45, ss.109-118, 2006 (SCI İndekslerine Giren Dergi)
- XVII. **Hydro turbine speed control using robust cascade governor controllers**
Eker I.
EUROPEAN TRANSACTIONS ON ELECTRICAL POWER, cilt.14, ss.293-310, 2004 (SCI İndekslerine Giren Dergi)
- XVIII. **Governors for hydro-turbine speed control in power generation: a SIMO robust design approach**
Eker I.
ENERGY CONVERSION AND MANAGEMENT, cilt.45, ss.2207-2221, 2004 (SCI İndekslerine Giren Dergi)
- XIX. **Open-loop and closed-loop experimental on-line identification of a three-mass electromechanical system**
Eker I.
MECHATRONICS, cilt.14, ss.549-565, 2004 (SCI İndekslerine Giren Dergi)
- XX. **Nonlinear modeling and identification of a DC motor for bidirectional operation with real time experiments**
KARA T., Eker I.
ENERGY CONVERSION AND MANAGEMENT, cilt.45, ss.1087-1106, 2004 (SCI İndekslerine Giren Dergi)
- XXI. **The design of robust multi-loop-cascaded hydro governors**
Eker I.
ENGINEERING WITH COMPUTERS, cilt.20, ss.45-53, 2004 (SCI İndekslerine Giren Dergi)
- XXII. **Experimental on-line identification of an electromechanical system**
Eker I.
ISA Transactions, cilt.43, ss.13-22, 2004 (SCI İndekslerine Giren Dergi)
- XXIII. **Nonlinear closed-loop direct identification of DC motor with load for low speed two-directional**

operation

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ELECTRICAL ENGINEERING, cilt.86, ss.87-96, 2004 (SCI İndekslerine Giren Dergi)

XXIV. Experimental nonlinear Identification of a three-mass system rotating in two directions

KARA T., Eker I.

MEASUREMENT & CONTROL, cilt.36, ss.309-315, 2003 (SCI İndekslerine Giren Dergi)

XXV. Robust governor design for hydro turbines using a multivariable-cascade control approach

Eker I.

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.28, ss.195-209, 2003 (SCI İndekslerine Giren Dergi)

XXVI. Operation and simulation of city of Gaziantep water supply system in Turkey

Eker I., GRIMBLE M., KARA T.

RENEWABLE ENERGY, cilt.28, ss.901-916, 2003 (SCI İndekslerine Giren Dergi)

XXVII. Self-tuning control as conventional method

KIRECCI A., Eker I., DULGER L.

ELECTRICAL ENGINEERING, cilt.85, ss.101-107, 2003 (SCI İndekslerine Giren Dergi)

XXVIII. Experimental evaluation of a model reference adaptive control for a hydraulic robot: a case study

KIRECCI A., TOPALBEKIROGLU M., Eker I.

ROBOTICA, cilt.21, ss.71-78, 2003 (SCI İndekslerine Giren Dergi)

XXIX. Experimental and model-assisted investigation of activities in a water supply system

Eker I., KARA T.

TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, cilt.25, ss.386-402, 2003 (SCI İndekslerine Giren Dergi)

XXX. New aspects of cascade and multi-loop process control

Eker I., Johnson M.

CHEMICAL ENGINEERING RESEARCH & DESIGN, cilt.74, ss.38-54, 1996 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

I. Experimental evaluation of various modified Smith predictor-based fractional order control design strategies in control of a thermal process with time delay

Ozbek N. S., EKER İ.

INTERNATIONAL JOURNAL OF EMBEDDED SYSTEMS, cilt.11, ss.68-77, 2019 (ESCI İndekslerine Giren Dergi)

II. GELİŞTİRİLMİŞ İKİNCİ DERECE KAYAN KIPLI KONTROL: TEORİ VE DENEYSEL UYGULAMA.

Furat M., EKER İ.

Engineer & the Machinery Magazine, cilt.57, ss.49-53, 2016 (Diğer Kurumların Hakemli Dergileri)

III. Geçici durum sürecini dikkate alan hata algılama metodu ve uygulamaları.

EKER İ., ALKAYA A.

Dicle Üniversitesi Mühendislik Fakültesi, cilt.31, ss.41-48, 2012 (Hakemli Üniversite Dergisi)

IV. Experimental evaluation of sliding-mode control techniques

EKER İ., FURAT M.

Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, cilt.27, ss.23-37, 2012 (Hakemli Üniversite Dergisi)

V. Sedimentation process in a water treatment system

EKER İ., TÜMAY M., Göğüş F.

Pakistan Journal of Applied Sciences, cilt.2, ss.694-697, 2002 (Diğer Kurumların Hakemli Dergileri)

VI. Modelling of Power System Protection Signalling

EKER İ., TÜMAY M., Erçelebi E.

Journal of Applied Sciences, cilt.4, ss.502-517, 2002 (Diğer Kurumların Hakemli Dergileri)

VII. Modelling and simulation of water supply systems for feedback control

EKER İ., KARA T.

Revue Des Energies Renouvelables, cilt.1, ss.49-55, 2001 (Diğer Kurumların Hakemli Dergileri)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Robustness issues of improved power system stabilizers**
EKER İ.
4th International Energy Congress (ITEC 2001), İzmir, Türkiye, ss.227
- II. **Robust multivariable-cascade governor controller design for hydraulic power generation units**
EKER İ.
4th International Energy Congress (ITEC 2001), İzmir, Türkiye, ss.233
- III. **Design, Analysis and Experimental Application of a Fractional Sliding Mode Control for a Benchmark Process**
Ozbek N. S. , EKER İ.
3rd International Conference on Applied Automation and Industrial Diagnostics (ICAAID), Elazığ, Türkiye, 25 - 27 Eylül 2019
- IV. **Investigation of time-delayed controller design strategies for an electromechanical system**
Özbek N. S. , EKER İ.
4th International Conference on Electrical and Electronics Engineering, ICEEE 2017, Ankara, Türkiye, 8 - 10 Nisan 2017, ss.181-186
- V. **A fractional fuzzy PI-PD based modified smith predictor for controlling of FOPDT process**
Ozbek N. S. , EKER İ.
5th International Conference on Electronic Devices, Systems and Applications, ICEDSA 2016, Ras al-Khaimah, Birleşik Arap Emirlikleri, 6 - 08 Aralık 2016
- VI. **An Experimental Comparative Study of Modified Smith Predictor Based Fractional Order Controller Design Strategies for a Time Delay Process**
Ozbek N. S. , EKER İ.
4th International Conference on Electrical and Electronic Engineering (ICEEE), Ankara, Türkiye, 8 - 10 Nisan 2017, ss.199-203
- VII. **A Novel Delay-Based Control Algorithm: Experimental Application to an Electromechanical System**
Ozbek N. S. , EKER İ.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Türkiye, 30 Kasım - 02 Aralık 2017, ss.842-846
- VIII. **A novel interactive system identification and control toolbox dedicated to real-time identification and model reference adaptive control experiments**
Özbek N. S. , EKER İ.
9th International Conference on Electrical and Electronics Engineering, ELECO 2015, Bursa, Türkiye, 26 - 28 Kasım 2015, ss.859-863
- IX. **Evaluation of risk factors and outcomes of invasive fungal infections in the first six months after allogeneic hematopoietic stem cell transplantation in pediatric acute leukemia: A Turkish multicenter study**
Hazar V., Karasu G., OZTURK G., Kilic S. C. , Uygun V., KARAKÜKCÜ M., OZBEK N., GURSEL O., ATAY D., Kupesiz A., et al.
41st Annual Meeting of the European-Society-for-Blood-and-Marrow-Transplantation, İstanbul, Türkiye, 22 - 25 Mart 2015, cilt.50, ss.5579
- X. **Wavelet - Based principal component analysis for process monitoring with experimental application**
Alkaya A., EKER İ.
8th International Conference on Electrical and Electronics Engineering, ELECO 2013, Bursa, Türkiye, 28 - 30 Kasım 2013, ss.634-638
- XI. **A new threshold algorithm based PCA method for fault detection in transient state processes**
EKER İ., ALKAYA A.
7th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Türkiye, 1 - 04 Aralık 2011, ss.144-147
- XII. **Sliding mode control with integral action and experimental application to an electromechanical**

system

EKER İ., AKINAL S. A.

2005 ICSC Congress on Computational Intelligence Methods and Applications, İstanbul, Türkiye, 15 - 17 Aralık 2005, ss.1-6

- XIII. **Sliding mode control with integral action and experimental application to an electromechanical system**
Eker I, Akinal S. A.
ICSC Congress on Computational Intelligence Methods and Applications, İstanbul, Türkiye, 15 - 17 Aralık 2005, ss.38-43
- XIV. **Parameter Identification of a Permanent Magnet DC Motor: An Experimental Approach**
EKER İ., Vural A. M.
ICEM 2004, 16. International Conference on Electrical Machines, Crakow, Polonya, 5 - 08 Eylül 2004, ss.1-6
- XV. **Experimental application of fuzzy logic control to an electrical drive system**
EKER İ., KARA T.
Proceedings of International Conference on Intelligent Knowledge Systems, Bursa, Türkiye, 16 - 20 Ağustos 2004, ss.122-129
- XVI. **Experimental evaluation of polynomial robust H adaptive control for a dc motor**
EKER İ.
Eleco'2003 International Conference on Electrical and Electronics Engineering, Bursa, Türkiye, 3 - 07 Aralık 2003, ss.356-360
- XVII. **Experimental identification of a electromechanical system running in open-loop conditions**
EKER İ., Vural A. M. , Süslüoğlu B.
Eleco '2003 International Conference on Electrical and Electronics Engineering, Bursa, Türkiye, 3 - 07 Aralık 2003, ss.284-288
- XVIII. **Behaviour of a water supply system: a modelling and simulation study of activities with some experiments**
EKER İ., KARA T.
Eleco'2003 International Conference on Electrical and Electronics Engineering, Bursa, Türkiye, 3 - 07 Aralık 2003, ss.274-278
- XIX. **Experimental nonlinear identification of a two mass system**
EKER İ., KARA T.
IEEE Conference on Control Applications: CCA 2003, İstanbul, Türkiye, 23 - 25 Haziran 2003, ss.66-71
- XX. **Experimental online identification of a three-mass mechanical system**
EKER İ., Vural A. M.
Proceedings of 2003 IEEE Conference on Control Applications, 2003. CCA 2003., İstanbul, Türkiye, 23 - 25 Haziran 2003, ss.60-65
- XXI. **Mutli-loop self-tuning governors**
EKER İ., Aydın İ. Ş.
36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C,, Swansea, İngiltere, 12 - 14 Eylül 2001
- XXII. **Multi-cascade robust governor design for hydroturbines**
EKER İ., Aydın İ. Ş.
36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C,, Swansea, İngiltere, 12 - 14 Eylül 2001, ss.1
- XXIII. **Modelling and simulation of water supply systems for feedback control**
EKER İ., KARA T.
36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C,, Swansea, İngiltere, 12 - 14 Eylül 2001, ss.1-6
- XXIV. **Governors for hydroturbines: New control schemes and robust designs**
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36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C,, Swansea, İngiltere, 12 -

- 14 Eylül 2001, ss.26-31
- XXV. **Design of multi-loop multivariable cascade hydrogovernors**
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36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C,, Swansea, İngiltere, 12 - 14 Eylül 2001, ss.16-25
- XXVI. **Control of a water supply system**
EKER İ., KARA T.
36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C,, Swansea, İngiltere, 12 - 14 Eylül 2001, ss.7-15
- XXVII. **Self-tuning robust multi-loop AVR's for synchronous generators in primary regulation for power systems**
EKER İ.
Second International Conference on Adaptive Computing in Engineering Design and Control, Plymouth, İngiltere, 26 - 28 Mart 1996, ss.220-227
- XXVIII. **Power system stability control with robust multi-loop Automatic Voltage Regulators**
EKER İ., Johnson M.
7th IFAC/ IFORS/ IMACS Conference on Large Scale Systems: Theory and Applications, London, İngiltere, 11 - 13 Temmuz 1995, ss.1-5
- XXIX. **An advanced cascade control framework for process control applications**
EKER İ., Johnson M., GRIMBLE M.
European Conference of Institution of Chemical Engineering (ICHEME Research Event), Edinburgh, İngiltere, 5 - 06 Ocak 1995, ss.19-21
- XXX. **Aspects of optimal cascade control design for the process control industries**
EKER İ., Johnson M.
First International Conference on Adaptive Computing in Engineering Design and Control, Plymouth, İngiltere, 21 Eylül 1994 - 22 Eylül 1994, ss.84-89

Desteklenen Projeler

- EKER İ., Sanayi Tezleri Projesi, Ticari Araçlarda Kullanılabilecek Soğutma ve Isıtma Sistemi (HVAC) Tasarımı, Geliştirilmesi ve Uygulaması, 2013 - Devam Ediyor
- EKER İ., Desteklenmiş Diğer Projeler, Multi-loop Control (EPSRC), 1992 - 1995
- EKER İ., Desteklenmiş Diğer Projeler, Furnace Temperature Control Problem, British Petrol (BP), 1994 - 1994

Bilimsel Hakemlikler

- Transactions of the Institute of Measurement and Control , SCI Kapsamındaki Dergi, Eylül 2018
- Transactions of the Institute of Measurement and Control , SCI Kapsamındaki Dergi, Eylül 2018
- Transactions of the Institute of Measurement and Control , SCI Kapsamındaki Dergi, Ağustos 2018
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- IEEE Access, SCI Kapsamındaki Dergi, Haziran 2018
- IEEE Transactions on Industrial Electronics, SCI Kapsamındaki Dergi, Haziran 2018
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- IEEE Transactions on Industrial Electronics, SCI Kapsamındaki Dergi, Nisan 2018
- Transactions of the Institute of Measurement and Control , SCI Kapsamındaki Dergi, Nisan 2018
- Arabian Journal of Science and Engineering, SCI Kapsamındaki Dergi, Nisan 2018
- Transactions of the Institute of Measurement and Control , SCI Kapsamındaki Dergi, Mart 2018
- Journal of Systems and Control Engineering, SCI Kapsamındaki Dergi, Mart 2018
- European Journal of Control, SCI Kapsamındaki Dergi, Şubat 2018

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IEEE Transactions on Industrial Electronics, SCI Kapsamındaki Dergi, Ocak 2018
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Atıflar

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