Prof. İLYAS EKER

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Biography

İlyas Eker (1965) received the B.Sc. in Electrical and Electronic Engineering (EEE), Middle East Technical University (METU)/Turkey in 1988. From 1988 to1992 he completed his M.Sc. and he worked as research assistant in EEE, Gaziantep University, Turkey. He joined Industrial Control Centre, University of Strathclyde, Glasgow, UK in 1992, where he received his Ph.D. degree in 1995. At present, he works as Associated Professor in EEE, Çukurova University/Turkey. His current research interests are self-tuning control, adaptive control, robustness, fuzzy control, sliding-mode control, fault detection, linear and nonlinear control, and their practical applications.

Education Information

Doctorate, University of Strathclyde, Elektrik-Elektronik Mühendisliği, United Kingdom 1992 - 1995
Postgraduate, Gaziantep University, Elektrik-Elektronik Mühendisliği, Turkey 1988 - 1991
Undergraduate, Middle East Technical University, Elektrik-Elektronik Mühendisliği, Turkey 1984 - 1988

Research Areas

Information Systems, Communication and Control Engineering, Control and System Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2005 - Continues

Academic and Administrative Experience

Cukurova University, Mühendislik Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2008 - Continues

Courses

PROCESS INSTRUMENTATION AND CONTROL, Undergraduate, 2014 - 2015

CONTROLLER IMPLEMENTION II, Postgraduate, 2014 - 2015

PROCESS CONTROL, Undergraduate, 2014 - 2015

PROCESS CONTROLLER DESIGN, Undergraduate, 2014 - 2015

CONTROL THEORY, Undergraduate, 2014 - 2015

CONTROLLER IMPLEMENTION I, Postgraduate, 2014 - 2015

Semiconductor Devices, Undergraduate, 2014 - 2015

SOFT COMPUTING CONTROL, Doctorate, 2014 - 2015

ADAPTIVE CONTROL STRATEGIES, Doctorate, 2013 - 2014

INTRODUCTION TO MODERN CONTROL, Postgraduate, 2012 - 2013

Advising Theses

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

EKER İ., Adaptive Fuzzy Type-2 in Control of 2-DOF Helicopter, Postgraduate, D.MAOUCHE(Student), 2016

EKER İ., High order sliding mode control with applications, Doctorate, M.FURAT(Student), 2014

EKER İ., Observer based fault detection and isolation and experimentally application to electromechanical systems, Doctorate, A.ALKAYA(Student), 2012

EKER İ., Self-tuning PID Control with Experimental Applications, Postgraduate, S.SERHAN(Student), 2009

EKER İ., Performance analysis of unified power flow controller (UPFC) by using different controllers, Postgraduate, L.SARIBULUT(Student), 2008

EKER İ., Adaptive Control of Nonlinear Systems with Applications, Doctorate, T.KARA(Student), 2005

EKER İ., Fuzzy Logic Control and its Applications, Postgraduate, Y.TORUN(Student), 2004

EKER İ., Governor Control in Hydropower Stations, Postgraduate, İ.ŞAMİL(Student), 2001

EKER İ., Mathematical Modelling of Water Supply Systems, Postgraduate, T.KARA(Student), 1999

Jury Memberships

Associate Professor Exam, DOÇENTLİK SINAV JÜRİLİĞİ, ÜNİVERSİTELER ARASI KURUL, February, 2015

Associate Professor Exam, DOÇENTLİK SINAV JÜRİLİĞİ, ÜNİVERSİTELER ARASI KURUL, October, 2014

Published journal articles indexed by SCI, SSCI, and AHCI

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, vol.97, pp.14-35, 2020 (SCI-Expanded)

II. **A Novel Modified Delay-Based Control Algorithm with Experimental Application**
    Ozbek N. S., EKER İ.
    INFORMATION TECHNOLOGY AND CONTROL, vol.48, no.1, pp.90-103, 2019 (SCI-Expanded)

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, vol.40, no.4, pp.1201-1211, 2018 (SCI-Expanded)

IV. **Chattering-eliminated adaptive sliding-mode control: an experimental comparison study**
    FURAT M., EKER İ.
    TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.2, pp.605-620, 2016 (SCI-Expanded)

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, vol.58, no.4, pp.297-302, 2015 (SCI-Expanded)

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, vol.22, no.4, pp.571-582, 2014 (SCI-Expanded)

VII. Second-order integral sliding-mode control with experimental application
Furat M., EKER İ.
ISA TRANSACTIONS, vol.53, no.5, pp.1661-1669, 2014 (SCI-Expanded)

VIII. Luenberger observer-based sensor fault detection: online application to DC motor
Alkaya A., EKER İ.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.22, no.2, pp.363-370, 2014 (SCI-Expanded)

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, vol.58, pp.570, 2013 (SCI-Expanded)

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, vol.37, no.7, pp.1969-1986, 2012 (SCI-Expanded)

XI. Variance sensitive adaptive threshold-based PCA method for fault detection with experimental application
Alkaya A., EKER İ.
ISA TRANSACTIONS, vol.50, no.2, pp.287-302, 2011 (SCI-Expanded)

XII. Second-order sliding mode control with experimental application
Eker I.
ISA TRANSACTIONS, vol.49, no.3, pp.394-405, 2010 (SCI-Expanded)

XIII. Sliding mode control with integral augmented sliding surface: design and experimental application to an electromechanical system
EKER İ., Akinal S. A.
ELECTRICAL ENGINEERING, vol.90, no.3, pp.189-197, 2008 (SCI-Expanded)

XIV. Fuzzy logic control to be conventional method
Eker I., TORUN Y.
ENERGY CONVERSION AND MANAGEMENT, vol.47, no.4, pp.377-394, 2006 (SCI-Expanded)

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, vol.220, pp.81-89, 2006 (SCI-Expanded)

XVI. Sliding mode control with PID sliding surface and experimental application to an electromechanical plant
Eker I.
ISA TRANSACTIONS, vol.45, no.1, pp.109-118, 2006 (SCI-Expanded)

XVII. Hydro turbine speed control using robust cascade governor controllers
Eker I.
EUROPEAN TRANSACTIONS ON ELECTRICAL POWER, vol.14, no.5, pp.293-310, 2004 (SCI-Expanded)

XVIII. Governors for hydro-turbine speed control in power generation: a SIMO robust design approach
Eker I.
ENERGY CONVERSION AND MANAGEMENT, vol.45, pp.2207-2221, 2004 (SCI-Expanded)

XIX.   Open-loop and closed-loop experimental on-line identification of a three-mass electromechanical
         system
         Eker I.
         MECHATRONICS, vol.14, no.5, pp.549-565, 2004 (SCI-Expanded)
XX.   Nonlinear modeling and identification of a DC motor for bidirectional operation with real time
         experiments
         KARA T., Eker I.
         ENERGY CONVERSION AND MANAGEMENT, vol.45, pp.1087-1106, 2004 (SCI-Expanded)
XXI.   The design of robust multi-loop-cascaded hydro governors
         Eker I.
         ENGINEERING WITH COMPUTERS, vol.20, no.1, pp.45-53, 2004 (SCI-Expanded)
XXII.   Experimental on-line identification of an electromechanical system
         Eker I.
         ISA Transactions, vol.43, no.1, pp.13-22, 2004 (SCI-Expanded)
XXIII.   Nonlinear closed-loop direct identification of DC motor with load for low speed two-directional
         operation
         KARA T., Eker I.
         ELECTRICAL ENGINEERING, vol.86, no.2, pp.87-96, 2004 (SCI-Expanded)
XXIV.   Experimental nonlinear Identification of a three-mass system rotating in two directions
         KARA T., Ekera I.
         MEASUREMENT & CONTROL, vol.36, no.10, pp.309-315, 2003 (SCI-Expanded)
XXV.   Robust governor design for hydro turbines using a multivariable-cascade control approach
         Eker I.
         ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.28, pp.195-209, 2003 (SCI-Expanded)
XXVI.   Operation and simulation of city of Gaziantep water supply system in Turkey
         Eker I., GRIMBLE M., KARA T.
         RENEWABLE ENERGY, vol.28, no.6, pp.901-916, 2003 (SCI-Expanded)
XXVII.   Self-tuning control as conventional method
         KIRECCI A., Eker I., DULGER L.
         ELECTRICAL ENGINEERING, vol.85, no.2, pp.101-107, 2003 (SCI-Expanded)
XXVIII. Experimental evaluation of a model reference adaptive control for a hydraulic robot: a case study
         KIRECCI A., TOPALBEKIROGLU M., Eker I.
         ROBOTICA, vol.21, pp.71-78, 2003 (SCI-Expanded)
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, vol.25, no.5, pp.386-402, 2003 (SCI-
         Expanded)
XXX.   New aspects of cascade and multi-loop process control
         Eker I., Johnson M.
         CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.74, pp.38-54, 1996 (SCI-Expanded)

Articles Published in Other Journals

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, vol.11, no.1, pp.68-77, 2019 (ESCI)
II.   A Set of Identification and Control Design Methods for an Industrial Air Heating Process with Time
        Delay Stability Analysis and Design Specifications
        ÖZBEK N. S., EKER İ.

Journal of Automation and Control Engineering, vol.4, no.3, pp.257-261, 2016 (Peer-Reviewed Journal)

III. **GELİŞTİRİLMİŞ İKİNCİ DERECE KAYAN KİPLİ KONTROL: TEORİ VE DENEYSEL UYGULAMA.**
Furat M., EKER İ.
Engineer & the Machinery Magazine, vol.57, no.675, pp.49-53, 2016 (Peer-Reviewed Journal)

IV. **Experimental evaluation of sliding-mode control techniques**
EKER İ., FURAT M.
Çukurova Üniversitesi Mühendislik-Mimarlik Fakültesi Dergisi, vol.27, no.1, pp.23-37, 2012 (Peer-Reviewed Journal)

V. **Geçici durum sürecini dikkate alan hata algılama metodu ve uygulamaları.**
EKER İ., ALKAYA A.
Dicle Ã?niversitesi MÃ¼hendislik FakÃ¼ltesi, vol.31, pp.41-48, 2012 (Peer-Reviewed Journal)

VI. **Modelling of Power System Protection Signalling**
EKER İ., TÜMAY M., Erçelebi E.
Journal of Applied Sciences, vol.4, no.2, pp.502-517, 2002 (Peer-Reviewed Journal)

VII. **Sedimentation process in a water treatment system**
EKER İ., TÜMAY M., Göğüş F.
Pakistan Journal of Applied Sciences, vol.2, no.6, pp.694-697, 2002 (Peer-Reviewed Journal)

VIII. **Modelling and simulation of water supply systems for feedback contro**
EKER İ., KARA T.
Revue Des Energies Renouvelables, vol.1, no.1, pp.49-55, 2001 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. **Robustness issues of improved power system stabilizers**
EKER İ.
4th International Energy Congress (ITEC 2001), İzmir, Turkey, pp.227

II. **Robust multivariable-cascade governor controller design for hydraulic power generation units**
EKER İ.
4th International Energy Congress (ITEC 2001), İzmir, Turkey, pp.233

III. **ZAMAN GECİKMELİ SİSTEMLER İÇİN SMİTH ÖNGÖRÜCÜSÜ TABANLI İKİNCİ DERECEDEN KAYAN KİPLİ KONTROL**
ÖZBEK N. S., EKER İ.
XVI. Otomatik Kontrol Seminer ve Sergisi, Turkey, 24 - 25 April 2019

IV. **Ağ Bağlantılı Kontrol Sistemlerinde Ağ Kısıtları Varlığında Kararlılık Analizi ve Kontrol Yöntemleri**
ÖZBEK N. S., EKER İ.
XVI. Otomatik Kontrol Seminer ve Sergisi, Turkey, 24 - 25 April 2019

V. **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, Turkey, 25 - 27 September 2019

VI. **An Experimental Comparison and PerformanceAssessment of Nonlinear Control Techniques for aThermal Process**
ÖZBEK N. S., EKER İ.
5th International Conference on Advanced Technology Sciences, 9 - 12 May 2017

VII. **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, Turkey, 8 - 10 April 2017, pp.181-186

VIII. **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, United Arab Emirates, 6 - 08 December 2016

IX. **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, Turkey, 8 - 10 April 2017, pp.199-203

X. **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, Turkey, 30 November - 02 December 2017, pp.842-846

XI. **Gain Scheduled PI PD Based Modified Smith Predictor for Control of Air Heating System Experimental Application**

ÖZBEK N. S., EKER İ.

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 26 - 28 October 2016, pp.660-669

XII. **Performance Comparison of an Adaptive Fuzzy Type 2 and Conventional Control Strategies in Control of 2 DOF Helicopter**

Maouche D., EKER İ.

International Conference on Electrical and Electronics Engineering (ICEEE 2016), 13 June 2016

XIII. **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, Turkey, 26 - 28 November 2015, pp.859-863

XIV. **Bir Isıtma Havalandırma ve İklimlendirme HVAC Sisteminin Modellenmesi ve Modele Dayalı Öngörülü Kontrol Yöntemi ile Denetimi**

ÖZBEK N. S., EKER İ.

Otomatik Kontrol Ulusal Toplantısı, TOK'2015, Turkey, 10 - 12 September 2015

XV. **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, Turkey, 22 - 25 March 2015, vol.50, pp.S579

XVI. **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, Turkey, 28 - 30 November 2013, pp.634-638

XVII. **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, Turkey, 1 - 04 December 2011, pp.144-147

XVIII. **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, Turkey, 15 - 17 December 2005, pp.1-6

XIX. **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, Turkey, 15 - 17 December 2005, pp.38-43

XX. **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, Poland, 5 - 08 September 2004, pp.1-6

XXI. **Experimental application of fuzzy logic control to an electrical drive system**

EKER İ., KARA T.

Proceedings of International Conference on Intelligent Knowledge Systems, Bursa, Turkey, 16 - 20 August 2004, pp.122-129

XXII. **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, Turkey, 3 - 07 December 2003, pp.284-288

XXIII. **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, Turkey, 3 - 07 December 2003, pp.274-278

XXIV. **Experimental evaluation of polynomial robust H adaptive control for a dc motor**

EKER İ.

Eleco'2003 International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 3 - 07 December 2003, pp.356-360

XXV. **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, Turkey, 23 - 25 June 2003, pp.60-65

XXVI. **Experimental nonlinear identification of a two mass system**

EKER İ., KARA T.

IEEE Conference on Control Applications: CCA 2003, İstanbul, Turkey, 23 - 25 June 2003, pp.66-71

XXVII. **Mutli-loop self-tuning governors**

EKER İ., Aydın İ. Ş.

36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C,, Swansea, United Kingdom, 12 - 14 September 2001

XXVIII. **Multi-cascade robust governor design for hydroturbines**

EKER İ., Aydın İ. Ş.

36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C,, Swansea, United Kingdom, 12 - 14 September 2001, pp.1

XXIX. **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, United Kingdom, 12 - 14 September 2001, pp.1-6

XXX. **Governors for hydroturbines: New control schemes and robust designs**

EKER İ., Aydın İ. Ş.

36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C,, Swansea, United Kingdom, 12 - 14 September 2001, pp.26-31

XXXI. **Design of multi-loop multivariable cascade hydrogovemors**

EKER İ., Aydın İ. Ş.

36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C,, Swansea, United Kingdom, 12 - 14 September 2001, pp.16-25

XXXII. **Control of a water supply system**
EKER İ., KARA T.
36th Universities Power Engineering Conference (UPEC'2001), Power Utilisation, Part-5C„ Swansea, United Kingdom, 12 - 14 September 2001, pp.7-15

XXXIII. **Self-tuning robust multi-loop AVRs for synchronous generators in primary regulation for power systems**
EKER İ.
Second International Conference on Adaptive Computing in Engineering Design and Control, Plymouth, United Kingdom, 26 - 28 March 1996, pp.220-227

XXXIV. **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, United Kingdom, 11 - 13 July 1995, pp.1-5

XXXV. **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, United Kingdom, 5 - 06 January 1995, pp.19-21

XXXVI. **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, United Kingdom, 21 September 1194 - 22 September 1994, pp.84-89

Supported Projects

EKER İ., Industrial Thesis Project, Ticari Araçlarda Kullanılabilecek Soğutma ve Isıtma Sistemi (HVAC) Tasarımı, Geliştirilmesi ve Uygulaması, 2013 - Continues

EKER İ., Aksoy M. M., Project Supported by Higher Education Institutions, Fuzzy Iterative Learning Control with Applications, 2019 - 2021

EKER İ., Özbek N. S., Project Supported by Higher Education Institutions, Zaman Gecikmeli Sistemlerin Kararlılık Analizi ve Kararlılaştırılması: Teori ve Uygulama, 2015 - 2018

EKER İ., Maouche D., Project Supported by Higher Education Institutions, Tip-2 Bulanık Mantık Kontrolü ve İki Serbestlik Dereceli Helikopter Sistemi Üzerinde Uygulaması, 2016 - 2017

EKER İ., Project Supported by Higher Education Institutions, Yüksek Dereceli Kayan Kipli Kontrol Yöntemi ve Elektromekanik Sisteme Deneysel Uygulaması, 2013 - 2014

EKER İ., Other International Funding Programs, Multi-loop Control (EPSRC), 1992 - 1995

EKER İ., Other International Funding Programs, Furnace Temperature Control Problem, British Petrol (BP), 1994 - 1994

Scientific Refereeing

Transactions of the Institute of Measurement and Control , SCI Journal, September 2018

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