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Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Turkey 2006 - 2011
Doctorate, Trakya University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 1996 - 2000
Postgraduate, Trakya University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 1994 - 1996
Undergraduate, Hacettepe University, Mühendislik Fakültesi, Elektronik Mühendisliği, Turkey 1985 - 1991

Dissertations

Doctorate, Kesirdereceli kontrol sistemlerinin frekans cevaplarının hesaplanması ve tasarımı, Inonu University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, 2011
Doctorate, Cam Eşya üretim sektöründe Bilgisayar Destekli üretim planlama ve bilgisayarlı üretim teknikleri, Trakya University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, 2000
Postgraduate, Unix İşletim sisteminde çok boyutlu performans analizi, Trakya University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, 1996

Research Areas

Information Systems, Communication and Control Engineering, Control and System Engineering, Simulation, Modelling and Identification, Nonlinear Systems, General System Theory, Checker, Stability, Adaptive Systems, Engineering and Technology

Academic Titles / Tasks

Professor, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2019 - Continues
Associate Professor, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2014 - 2019

Academic and Administrative Experience

Advising Theses

YEROĞLU C., Kesir dereceli diferansiyelin doğrusal olmayan denetim yöntemlerine ve sinyal işleme tekniklerine uygulanması, Doctorate, G.KAVURAN(Student), 2017
YEROĞLU C., Kesir dereceli belirsiz sistemler için dayanıklı analiz araçlarının ve arayüz programlarının geliştirilmesi, Doctorate, B.ŞENOL(Student), 2015
YEROĞLU C., Prototip helikopter sisteminin matematiksel modelinin deneysel belirlenmesi ve denetçi tasarımı, Postgraduate, A.ATEŞ(Student), 2013
YEROĞLU C., Kesir dereceli kontrol sistemlerinin frekans cevaplarının analizi için MATLAB ortamında toolbox geliştirilmesi, Postgraduate, B.ŞENOL(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

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II. **Adaptive protection method with fault current limiting mechanism for directional over current relays coordination problem**
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III. **Modification of Harris hawks optimization algorithm with random distribution functions for optimum power flow problem**
Akdag O., ATEŞ A., YEROĞLU C.
NEURAL COMPUTING & APPLICATIONS, vol.33, no.6, pp.1959-1985, 2021 (SCI-Expanded)

IV. **Optimal directional overcurrent relay coordination using MRFO algorithm: A case study of adaptive protection of the distribution network of the Hatay province of Turkey**
Akdag O., YEROĞLU C.
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V. **Optimal load flow via modified water cycle algorithm**
Akdag O., YEROĞLU C.
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VI. **Fine-Tuning of Feedback Gain Control for Hover Quad Copter Rotors by Stochastic Optimization Methods**
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VII. **2DOF multi-objective optimal tuning of disturbance reject fractional order PIDA controllers according to improved consensus oriented random search method**
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VIII. **An evaluation of an offshore energy installation for the Black Sea region of Turkey and the effects on a regional decrease in greenhouse gas emissions**
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X. **Electronically reconfigurable two-path fractional-order PI/D controller employing constant phase blocks based on bilinear segments using CMOS modified current differencing unit**
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MICROELECTRONICS JOURNAL, vol.86, pp.114-129, 2019 (SCI-Expanded)

XI. **A theoretical investigation on moving average filtering solution for fixed-path map matching of noisy position data**
ALAGÖZ B. B., ERTÜRKLER M., YEROĞLU C.
INTERNATIONAL JOURNAL OF SENSOR NETWORKS, vol.29, no.4, pp.213-225, 2019 (SCI-Expanded)

XII. **Modified Artificial Physics Optimization for Multi-parameter Functions**
ATEŞ A., YEROĞLU C.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF ELECTRICAL ENGINEERING, vol.42, no.4, pp.465-478, 2018 (SCI-Expanded)

XIII. **Model Reference Adaptive Control Scheme for Retuning Method-Based Fractional-Order PID Control with Disturbance Rejection Applied to Closed-Loop Control of a Magnetic Levitation System**
TEPLJAKOV A., ALAGÖZ B. B., GONZALEZ E., PETLENKOV E., YEROĞLU C.
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XVI. **Reference-shaping adaptive control by using gradient descent optimizers**
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ATEŞ A., ALAGÖZ B. B., Kavuran G., YEROĞLU C.
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XVIII. **Linear systems with unstructured multiplicative uncertainty: Modeling and robust stability analysis**
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XX. **Simplified Frequency Response Computation of Fractional Order Systems with Multiple Linear Uncertainty Structures**
ŞENOL B., YEROĞLU C.
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XXVI. **Limit cycles in nonlinear systems with fractional order plants**
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YEROĞLU C., ATEŞ A.
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XXIX. **Sliding mode controller design with fractional order differentiation: applications for unstable time delay systems**
YEROĞLU C., Kavuran G.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.22, no.5, pp.1270-1286, 2014 (SCI-Expanded)

XXX. **Investigation of robust stability of fractional order multilinear affine systems: 2q-convex parpolygon approach**
YEROĞLU C., ŞENOL B.
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XXXI. **Auto-tuning of PID controller according to fractional-order reference model approximation for DC rotor control**
ALAGÖZ B. B., ATEŞ A., YEROĞLU C.
MECHATRONICS, vol.23, no.7, pp.789-797, 2013 (SCI-Expanded)

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ŞENOL B., YEROĞLU C.
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XXXIII. **Note on fractional-order proportional-integral-differential controller design**
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IET CONTROL THEORY AND APPLICATIONS, vol.5, no.17, pp.1978-1989, 2011 (SCI-Expanded)

XXXIV. **Classical controller design techniques for fractional order case**
YEROĞLU C., TAN N.
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INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS, vol.8, no.5, pp.1009-1017, 2010 (SCI-Expanded)

XXXVI. **Effect of dielectric barrier discharge on the sorption properties of disperse porous materials in CO2-silicagel and SF6-silicagel systems**
ALISOY H. Z., Yeroglu C., KOSEOGLU M., TAN N.
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XXXVII. **The evaluations of the influence of surface conductivity to the energy of particles in discharge**

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I. **Proportional Integral Accelerator Controller Design and Theoretical Investigation of Disturbance Rejection Performance**
Özbey N., Yeroğlu C.
Technium: Romanian Journal of Applied Sciences and Technology, vol.2, no.6, pp.112-121, 2020 (Peer-Reviewed Journal)

II. **Harris Şahini Optimizasyon Algoritması ile Aktif Güç Kayıplarının Minimizasyonu**
AKDAĞ O., ATEŞ A., YEROĞLU C.
Dokuz Eylül Üniversitesi Fen ve Mühendislik Dergisi, vol.22, no.65, pp.481-490, 2020 (Peer-Reviewed Journal)

III. **PIDA Denetçilerin Bozucu Dışlama Performansının Teorik İncelenmesi**
ÖZBEY N., YEROĞLU C., ALAGÖZ B. B.
Avrupa Bilim ve Teknoloji Dergisi, no.18, 2020 (Peer-Reviewed Journal)

IV. **Multi-Loop Model Reference Proportional Integral Derivative Controls: Design and Performance Evaluations**
ALAGÖZ B. B., Tepljakov A., Petlenkov E., YEROĞLU C.
ALGORITHMS, vol.13, no.2, 2020 (ESCI)

V. **Multi-loop Model Reference Adaptive PID Control for Fault-Tolerance**
ALAGÖZ B. B., KAVURAN G., ATEŞ A., YEROĞLU C., ALİSOY H.
BALKAN JOURNAL OF ELECTRİCAL AND COMPUTER ENGİNEERİNG, vol.7, no.3, pp.276-285, 2019 (Peer-Reviewed Journal)

VI. **Time-domain identification of One Noninteger Order Plus Time Delay models from step response measurements**
ALAGÖZ B. B., TEPLJAKOV A., ATEŞ A., PETLENKOV E., YEROĞLU C.
INTERNATIONAL JOURNAL OF MODELING SIMULATION AND SCIENTIFIC COMPUTING, vol.10, no.1, 2019 (ESCI)

VII. **Multi-Parameter Optimization of Sliding-Mode Controller for Quadcopter Application**
Dikmen İ. C., Karadağ T., Yeroğlu C.
Anatolian Science, vol.3, no.1, pp.14-28, 2018 (Peer-Reviewed Journal)

VIII. **Fractional Order Darwinian PSO with Constraint Threshold for Load Flow Optimization of Energy Transmission System**
AKDAG O., Okumus F., KOCAMAZ A. F., YEROĞLU C.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.3, pp.831-844, 2018 (ESCI)

IX. **Effects of fractional order integration on ASDM signals**
Kavuran G., YEROĞLU C., ATEŞ A., ALAGÖZ B. B.
International Journal of Dynamics and Control, vol.5, no.1, pp.10-17, 2017 (Scopus)

X. **Kesir dereceli model referans denetleyici ile görüntü işleme destekli nesne takip uygulaması**
Kavuran G., ATEŞ A., ALAGÖZ B. B., YEROĞLU C.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.22, pp.659-665, 2016 (Peer-Reviewed Journal)

XI. **SMDO algoritması ile iki serbestlik dereceli FOPID kontrol çevrimi tasarımı**
ATEŞ A., YEROĞLU C.

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.22, pp.671-676, 2016 (Peer-Reviewed Journal)

XII. **Implementation of Model Reference Adaptive Controller with Fractional Order Adjustment Rules for Coaxial Rotor Control Test System**
Kavuran G., ALAGÖZ B. B., ATEŞ A., YEROĞLU C.
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XIII. **Online Tuning of Two Degrees of Freedom Fractional Order Control Loops**
ATEŞ A., YEROĞLU C.
BALKAN JOURNAL OF ELECTRİCAL AND COMPUTER ENGİNEERİNG, vol.4, pp.5-10, 2016 (Peer-Reviewed Journal)

XIV. **Two degrees of freedom FOPID control loop design via SMDO algorithm**
ATEŞ A., YEROĞLU C.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.22, no.8, pp.671-676, 2016 (ESCI)

XV. **Image processing based object tracking application with fractional-order model reference controller**
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Books & Book Chapters

I. **Fractional Order Filter Discretization by Particle Swarm Optimization Method**
IMIK O., ALAGÖZ B. B., ATEŞ A., YEROĞLU C.
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Refereed Congress / Symposium Publications in Proceedings

I. **Development of CNN architecture for Honey Bees Disease Condition**
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II. **Feature Selection by Using Heuristic Methods for Text Classification**
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III. **Fractional Order Model Identification of Receptor-Ligand Complexes Formation by Equivalent Electrical Circuit Modeling**
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Imik O., ALAGÖZ B. B., ATEŞ A., YEROĞLU C.
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VIII. **SOS Algoritması ile Tasarlanan PIDA Denetçinin Bozucu Bastırma Etkisi**
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IX. **PIDA Denetçi Parametrelerinin PSO Algoritması ile Belirlenmesi**
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X. **Malatya Public Transportation Route Optimization via Ant Colony Algorithm**
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XI. **Optimization of the FO[PI] Controller for MTDS using MAPO with Multi Objective Function**
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Non Academic Experience

Business Establishment Private, Şişecam, Üretim Müdürlüğü
Other Public Institution, Bayındırlık Ve İskan Bakanlığı, Sismoloji Şube Müdürlüğü