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International Researcher IDs

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Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği (Dr), Turkey 1991 - 1999

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği (YI) (Tezli), Turkey 1987 - 1990

Undergraduate, Gazi University, Mühendislik-Mimarlık Fakültesi, Turkey 1982 - 1986

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Two new switching surface design techniques for nonlinear systems with their applications to missile control, Middle East Technical University, Analiz ve Fonksiyonlar Teorisi, Makine Mühendisliği (Dr), 1999

Postgraduate, Simulation and comparison of various control types as applied to manipulators, Middle East Technical University, Analiz ve Fonksiyonlar Teorisi, Makine Mühendisliği (YI) (Tezli), 1990

Research Areas

Non-traditional manufacturing methods, Machine Theory and Dynamics, Machine Dynamics, System Dynamics and Control, Mechatronics, Modeling and Simulation of Dynamic Systems, Mechanical Vibrations

Academic Titles / Tasks

Professor, Gazi University, Mühendislik Fakültesi, 2013 - Continues

Associate Professor, Gazi University, Mühendislik Fakültesi, 2010 - 2013

Associate Professor, Gazi University, Mühendislik-Mimarlık Fakültesi, 2007 - 2010

Assistant Professor, Gazi University, Mühendislik-Mimarlık Fakültesi, 2003 - 2007

Academic and Administrative Experience

Gazi University, Rektörlük, 2016 - Continues
Gazi University, Mühendislik Fakültesi, 2013 - 2016
Gazi University, Mühendislik Fakültesi, 2012 - 2013
Gazi University, Mühendislik-Mimarlık Fakültesi, 2008 - 2010

Advising Theses

SALAMCI M. U., Development Of Indigenous Human Surrogate For Measurement Of Leg Forces Resulting From Mine Blast In Armored Military Vehicles, Postgraduate, E.ÖZDEMİR(Student), 2020
SALAMCI M. U., Sliding Mode Control Design For A Two Stage Electro Hydraulic Servo Valve, Postgraduate, A.ESATOĞLU(Student), 2020
SALAMCI M. U., BİR ASKERİ PERİSKOP İÇİN PID VE KAYAN KIPLİ DENETÇİ TASARIMI VE BENZETİM ÇALIŞMALARI, Postgraduate, M.YALÇIN(Student), 2020
SALAMCI M. U., Nonlinear Sliding Sector Controller For Missile Autopilot Design, Postgraduate, G.DEDE(Student), 2019
SALAMCI M. U., Sliding Sector Controller Design For Unmanned Aerial Vehicles And Its Experimental Application, Doctorate, S.ÖZCAN(Student), 2018
SALAMCI M. U., State Dependent Riccati Equation Based Model Reference Adaptive Controller Design And Application To Three Degree Of Freedom Helicopter, Postgraduate, B.MAHMUT(Student), 2017
SALAMCI M. U., State dependent Riccati equation based optimal controller design and application of three degree of freedom helicopter, Postgraduate, A.ÇAĞRI(Student), 2017
SALAMCI M. U., Application Of State Dependent Riccati Equation Based Sliding Mode Control To Three Degree Of Freedom Helicopter, Postgraduate, Ü.MÜFİT(Student), 2017
SALAMCI M. U., Doğrusal olmayan sistemler için model referans uyarlamalı kontrol yaklaşımlarının geliştirilmesi ve kişiye özgü ilaç verme protokollerinin belirlenmesi için kanser tedavisinde uygulamaları, Doctorate, N.BABAEI(Student), 2016
SALAMCI M. U., THE DEVELOPMENT OF MODEL REFERENCE ADAPTIVE CONTROL APPROACHES FOR NONLINEAR SYSTEMS AND THEIR APPLICATIONS TO CANCER TREATMENT FOR PERSONALIZED DRUG DELIVERY PROTOCOLS, Expertise In Medicine, N.Babei(Student), 2016
SALAMCI M. U., Optimal Controller Design For Rigid Satellite Systems, Postgraduate, O.BİÇER(Student), 2015
SALAMCI M. U., Model Reference Adaptive Control Design For Nonlinear Systems Via Successive Approximations, Postgraduate, F.KODALAK(Student), 2015
SALAMCI M. U., ÖZKAN B., Bir fırlatma aracında itki etkisini azaltıcı yönde denetim sistemlerinin tasarlanması, Postgraduate, H.KAMIŞLI(Student), 2015
SALAMCI M. U., Decentralized Model Reference Adaptive Control Design For Nonlinear Systems Using State Dependent Riccati Equation Approach, Postgraduate, F.SAHAMI(Student), 2015
SALAMCI M. U., New sliding surface design methods for sliding mode control, Postgraduate, F.IRMAK(Student), 2014
SALAMCI M. U., Mathematical modelling, PID and sliding mode control of a rocket launcher system, Postgraduate, K.DOKUMACI(Student), 2014
SALAMCI M. U., Cancer dynamics and chaotic behavior analysis, Postgraduate, B.NASERI(Student), 2014
SALAMCI M. U., New methods for eliminating the chattering problem in variable structure control input, Postgraduate, B.EREN(Student), 2013
SALAMCI M. U., Variable structure control design with sliding sector for a class of nonlinear systems, Postgraduate, S.ÖZCAN(Student), 2012
SALAMCI M. U., Nonlinear Dynamical Systems with Applications to Cancer Modelling and Control, Doctorate, M.İtik(Student), 2010
SALAMCI M. U., ÖZKAN B., Robust torque control of a hydraulically actuated loading system, Postgraduate, M.UĞUR(Student), 2010
SALAMCI M. U., Dynamic analysis and vibration control of a vertical roller grinding system, Postgraduate, E.HASAN(Student), 2010
SALAMCI M. U., Belirsizlik içeren nonlineer sistemler için kayan kipli denetim tasarlanması, Postgraduate, T.CHOBAN(Student), 2009

SALAMCI M. U., Sliding mode control of linearly actuated nonlinear systems, Postgraduate, B.DURMAZ(Student), 2009

SALAMCI M. U., Bozucu dışlama açısından en uygun kutup yerlerinin belirlenmesi, Postgraduate, C.DOĞAN(Student), 2008

SALAMCI M. U., SLIDING MODE CONTROL OF FLEXIBLE STRUCTURES AND ITS APPLICATION TO A SPACECRAFT MODEL, Postgraduate, N.BİLGİN(Student), 2007

SALAMCI M. U., Havaçılık navigasyonlarında diferansiyel GPS kullanılması üzerine bir uygulama, Postgraduate, H.TOK(Student), 2006

SALAMCI M. U., Glass kokpitli helikopter kazalarının mürettebat kaynak yönetimi eğitimi ile azaltılması, Postgraduate, C.İZZET(Student), 2006

SALAMCI M. U., Doğrusal olmayan sistemlerin zamanla değişen doğrusal yüzey kullanılarak kayan kipli kontrolü ve uygulamaları, Postgraduate, B.GÖKBİLEN(Student), 2006

SALAMCI M. U., Köprülü kavşakların çevresel trafik gürültü seviyelerine etkilerinin incelenmesi, Postgraduate, G.ENER(Student), 2006

SALAMCI M. U., Hava körüklü pasif ve yarı-aktif askı sistemlerinin performanslarının teorik olarak incelenmesi ve mekanik askı sistemleriyle karşılaştırılması, Postgraduate, H.BAL(Student), 2006

SALAMCI M. U., Kayan kipli denetim kullanılarak esnek bir kirişin aktif titreşim kontrolü, Postgraduate, M.İTİK(Student), 2005

SALAMCI M. U., Mürettebat kaynak yönetiminin hava aracı kazalarına etkisi ve bir uygulama, Postgraduate, N.ŞAHİN(Student), 2005

SALAMCI M. U., Enerji nakil hatlarının ilaçlama uçaklarının kaza ve kırılmalarına etkilerinin incelenmesi ve önlenmesine yönelik bir uygulama, Postgraduate, M.UYSAL(Student), 2003

SALAMCI M. U., Lokal alan diferansiyel GPS hassas yaklaşması ve gözlem sonrası hesaplama yöntemiyle uygulaması, Postgraduate, R.FARUK(Student), 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Additive Manufacturing: Experiments, Simulations, and Data-Driven Modelling**
Mahmood M. A., Ur Rehman A., Khraisheh M., SALAMCI M. U., Ur Rehman R., Sajjad U., Ristoscu C., Popescu A. C., Oane M., Mihailescu I. N.
Crystals, vol.14, no.9, 2024 (SCI-Expanded)
- II. **Mechanical and Electrochemical Properties Comparison of Additively Manufactured Ti-6Al-4V Alloys by Electron Beam Melting and Selective Laser Melting**
Romero Reséndiz L., Sánchez Cano T., Naeem M., Ur Rehman A., SALAMCI E., Torres Mendoza V., Degalez Duran E., Bazán Díaz L., SALAMCI M. U.
Journal of Materials Engineering and Performance, vol.33, no.17, pp.9028-9038, 2024 (SCI-Expanded)
- III. **Advanced Support Structures in Metal Additive Manufacturing: A Comparative Analysis of Porous Media for Enhanced Part Quality and Removal Efficiency**
Erol H. İ., Gülletutan U. C., Günaydin A. C., Altınok S., Yavaş H., SALAMCI M. U.
Advanced Engineering Materials, vol.26, no.14, 2024 (SCI-Expanded)
- IV. **Understanding the consolidation mechanism of selective laser sintering/powder bed selective laser process of ceramics: Hydroxyapatite case**
Ur Rehman A., Navarrete-Segado P., SALAMCI M. U., Frances C., Tourbin M., Grossin D.
Rapid Prototyping Journal, vol.30, no.4, pp.677-695, 2024 (SCI-Expanded)
- V. **A Review on Vibration Characteristics of Additively Manufactured Metal Alloys**
Azher K., Shah M., Bakhtari A. R., Castelluccio G. M., Tüfekci C. S., Cini A., Akturk N., Salamci M. U.
Advanced Engineering Materials, vol.26, no.6, 2024 (SCI-Expanded)
- VI. **Development and validation of a digital twin of the human lower jaw under impact loading by using non-linear finite element analyses**
Demir O., Uslan I., BÜYÜK M., SALAMCI M. U.
Journal of the Mechanical Behavior of Biomedical Materials, vol.148, 2023 (SCI-Expanded)

- VII. **Additive manufacturing of Inconel-625: from powder production to bulk samples printing**
Rehman A. U., Karakas B., Mahmood M. A., Basaran B., Rehman R. U., Kirac M., Khraisheh M., SALAMCI M. U., ÜNAL R.
RAPID PROTOTYPING JOURNAL, vol.29, no.9, pp.1788-1799, 2023 (SCI-Expanded)
- VIII. **An Extension Algorithm of Regional Eigenvalue Assignment Controller Design for Nonlinear Systems**
Arıcan A. Ç., Çopur E. H., Inalhan G., Salamci M. U.
Aerospace, vol.10, no.10, pp.1-33, 2023 (SCI-Expanded)
- IX. **Precise Control of Gimbal Systems with Model Reference Sliding Mode Controller**
Birinci B. E., ÖZKAN B., Salamci M. U.
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS, vol.46, no.8, pp.1620-1626, 2023 (SCI-Expanded)
- X. **Binder jetting of SS316L: a computational approach for droplet-powder interaction**
Ur Rehman A., Azher K., Ullah A., Tüfekci C. S., SALAMCI M. U.
Rapid Prototyping Journal, vol.29, no.7, pp.1499-1509, 2023 (SCI-Expanded)
- XI. **Additive manufacturing of Al₂O₃ ceramics with MgO/SiC contents by laser powder bed fusion process**
Ur Rehman A., Ullah A., Liu T., Ur Rehman R., SALAMCI M. U.
Frontiers in Chemistry, vol.11, 2023 (SCI-Expanded)
- XII. **The Influence of Nanoparticle Dispersions on Mechanical and Thermal Properties of Polymer Nanocomposites Using SLA 3D Printing**
Shah M., Ullah A., Azher K., Ur Rehman A., Aktürk N., Juan W., Tüfekci C. S., Salamci M. U.
Crystals, vol.13, no.2, 2023 (SCI-Expanded)
- XIII. **Influence of anisotropy on the deformation behaviour in microtensile 316L steel specimens fabricated by laser powder bed fusion (PBF-LB/M)**
Kaya A. C., SALAMCI M. U., Fleck C.
Materials Science and Engineering A, vol.863, 2023 (SCI-Expanded)
- XIV. **Vat photopolymerization-based 3D printing of polymer nanocomposites: current trends and applications**
Shah M., Ullah A., Azher K., Rehman A. U., Juan W., Aktürk N., Tüfekci C. S., Salamci M. U.
RSC ADVANCES, vol.13, no.2, pp.1456-1496, 2023 (SCI-Expanded)
- XV. **Printability for additive manufacturing with machine learning: Hybrid intelligent Gaussian process surrogate-based neural network model for Co-Cr alloy**
Mahmood M. A., Rehman A. U., Karakas B., Sever A., Rehman R. U., SALAMCI M. U., Khraisheh M.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.135, 2022 (SCI-Expanded)
- XVI. **The influence of laser power and scanning speed on the microstructure and surface morphology of Cu₂O parts in SLM**
Ullah A., Ur Rehman A., SALAMCI M. U., Pitir F., Liu T.
RAPID PROTOTYPING JOURNAL, vol.28, no.9, pp.1796-1807, 2022 (SCI-Expanded)
- XVII. **Laser additive manufacturing of Co-Cr alloy and the induced defects thereof**
Mahmood M. A., Rehman A. U., Lungu M., Pitir F., SALAMCI M. U., Ristoscu C., Tiseanu I., Mihailescu I. N.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.121, no.1-2, pp.1385-1400, 2022 (SCI-Expanded)
- XVIII. **Advances in Laser Additive Manufacturing of Cobalt-Chromium Alloy Multi-Layer Mesoscopic Analytical Modelling with Experimental Correlations: From Micro-Dendrite Grains to Bulk Objects**
Mahmood M. A., Ur Rehman A., Ristoscu C., Demir M., Popescu-Pelin G., Pitir F., SALAMCI M. U., Mihailescu I. N.
NANOMATERIALS, vol.12, no.5, 2022 (SCI-Expanded)
- XIX. **Influence of Silicon Carbide on Direct Powder Bed Selective Laser Process (Sintering/Melting) of Alumina**
Ur Rehman A., Saleem M. A., Liu T., Zhang K., Pitir F., SALAMCI M. U.
MATERIALS, vol.15, no.2, 2022 (SCI-Expanded)
- XX. **Nonlinear State Dependent Sliding Sector Control of Gimbal Systems**
Birinci B. E., ÖZKAN B., SALAMCI M. U.

MECHANIKA, vol.28, no.5, pp.378-386, 2022 (SCI-Expanded)

- XXI. **Keyhole formation by laser drilling in laser powder bed fusion of Ti6Al4V biomedical alloy: Mesoscopic computational fluid dynamics simulation versus mathematical modelling using empirical validation**
Rehman A. U., Mahmood M. A., Pitir F., SALAMCI M. U., Popescu A. C., Mihailescu I. N.
Nanomaterials, vol.11, no.12, 2021 (SCI-Expanded)
- XXII. **Laser melting deposition additive manufacturing of ti6al4v biomedical alloy: Mesoscopic in-situ flow field mapping via computational fluid dynamics and analytical modelling with empirical testing**
Mahmood M. A., Rehman A. U., Pitir F., SALAMCI M. U., Mihailescu I. N.
Materials, vol.14, no.24, 2021 (SCI-Expanded)
- XXIII. **Spatter formation and splashing induced defects in laser-based powder bed fusion of AlSi10Mg alloy: A novel hydrodynamics modelling with empirical testing**
Rehman A. U., Mahmood M. A., Ansari P., Pitir F., SALAMCI M. U., Popescu A. C., Mihailescu I. N.
Metals, vol.11, no.12, 2021 (SCI-Expanded)
- XXIV. **Full-Field Mapping and Flow Quantification of Melt Pool Dynamics in Laser Powder Bed Fusion of SS316L**
Rehman A. U., Pitir F., SALAMCI M. U.
MATERIALS, vol.14, no.21, 2021 (SCI-Expanded)
- XXV. **Laser Powder Bed Fusion (LPBF) of In718 and the Impact of Pre-Heating at 500 and 1000 degrees C: Operando Study**
Ur Rehman A., Pitir F., SALAMCI M. U.
MATERIALS, vol.14, no.21, 2021 (SCI-Expanded)
- XXVI. **Mesoscopic Computational Fluid Dynamics Modelling for the Laser-Melting Deposition of AISI 304 Stainless Steel Single Tracks with Experimental Correlation: A Novel Study**
Ur Rehman A., Mahmood M. A., Pitir F., SALAMCI M. U., Popescu A. C., Mihailescu I. N.
METALS, vol.11, no.10, 2021 (SCI-Expanded)
- XXVII. **Selective Laser Melting of 316L Austenitic Stainless Steel: Detailed Process Understanding Using Multiphysics Simulation and Experimentation**
Ansari P., Rehman A. U., Pitir F., Veziroglu S., Mishra Y. K., Aktas O. C., SALAMCI M. U.
METALS, vol.11, no.7, 2021 (SCI-Expanded)
- XXVIII. **On the selective laser melting based additive manufacturing of AlSi10Mg: The process parameter investigation through multiphysics simulation and experimental validation**
Ansari P., SALAMCI M. U.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.890, 2021 (SCI-Expanded)
- XXIX. **Nonlinear sliding sector design for multi-input systems with application to helicopter control**
Ozcan S., Salamci M. U., Nalbantoglu V.
INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL, vol.30, pp.2248-2291, 2020 (SCI-Expanded)
- XXX. **Multiloop state-dependent nonlinear time-varying sliding mode control of unmanned small-scale helicopter**
Ozcan S., Salamci M. U., Nalbantoglu V.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.234, pp.585-606, 2020 (SCI-Expanded)
- XXXI. **Mixed therapy in cancer treatment for personalized drug administration using model reference adaptive control**
Babaei N., SALAMCI M. U.
EUROPEAN JOURNAL OF CONTROL, vol.50, pp.117-137, 2019 (SCI-Expanded)
- XXXII. **Analytical solution of stability of FG-CNTRC conical shells under external pressures**
Sofiyev A. H., Turkaslan B. E., Bayramov R. P., SALAMCI M. U.
THIN-WALLED STRUCTURES, vol.144, 2019 (SCI-Expanded)
- XXXIII. **An update algorithm design using moving Region of Attraction for SDRE based control law**
Çopur E. H., Arıcan A. Ç., Ozcan S., Salamci M. U.

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.356, no.15, pp.8388-8413, 2019 (SCI-Expanded)

- XXXIV. **Controller design for personalized drug administration in cancer therapy: Successive approximation approach**
Babaei N., SALAMCI M. U.
OPTIMAL CONTROL APPLICATIONS & METHODS, vol.39, no.2, pp.682-719, 2018 (SCI-Expanded)
- XXXV. **Model Reference Adaptive Sliding Surface Design for Nonlinear Systems**
Kara F., SALAMCI M. U.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol.54, no.1, pp.611-624, 2018 (SCI-Expanded)
- XXXVI. **Stability and vibration of sandwich cylindrical shells containing a functionally graded material core with transverse shear stresses and rotary inertia effects**
Sofiyev A. H., Hui D., Huseynov S. E., SALAMCI M. U., Yuan G. Q.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.230, no.14, pp.2376-2389, 2016 (SCI-Expanded)
- XXXVII. **Personalized drug administration for cancer treatment using Model Reference Adaptive Control**
Babaei N., SALAMCI M. U.
JOURNAL OF THEORETICAL BIOLOGY, vol.371, pp.24-44, 2015 (SCI-Expanded)
- XXXVIII. **Sliding mode control for non-linear systems with adaptive sliding surfaces**
Durmaz B., ÖZGÖREN M. K., SALAMCI M. U.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.34, no.1, pp.56-90, 2012 (SCI-Expanded)
- XXXIX. **SDRE optimal control of drug administration in cancer treatment**
Itik M., SALAMCI M. U., Banks S. P.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.18, no.5, pp.715-729, 2010 (SCI-Expanded)
- XL. **Optimal control of drug therapy in cancer treatment**
Itik M., SALAMCI M. U., Banks S. P.
NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.71, no.12, 2009 (SCI-Expanded)
- XLI. **Active vibration suppression of a flexible structure using sliding mode control**
Itik M., SALAMCI M. U.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.20, no.8, pp.1149-1158, 2006 (SCI-Expanded)
- XLII. **Sliding mode control with optimal sliding surfaces for missile autopilot design**
Salamci M. U., Ozgoren M., Banks S.
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS, vol.23, no.4, pp.719-727, 2000 (SCI-Expanded)
- XLIII. **Non-local stabilization of nonlinear systems using switching manifolds**
Banks S., Salamci M. U., McCaffrey D.
INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE, vol.31, no.2, pp.243-254, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **Understanding the Effects of Manufacturing Attributes on Damage Tolerance of Additively Manufactured Parts and Exploring Synergy Among Process-Structure-Properties. A Comprehensive Review**
Uddin Z., Butt M. M., Kvvssn V., Salamci M. U., Kızıl H.
ENGINEERING REPORTS, vol.6, no.11, 2024 (ESCI)
- II. **Corrosion in laser powder bed fusion AlSi10Mg alloy**
Laieghi H., Kvvssn V., Butt M. M., Ansari P., SALAMCI M. U., Patterson A. E., SALAMCI E.
Engineering Reports, vol.6, no.10, 2024 (ESCI)
- III. **Fatigue performance in additively manufactured metal alloys**
Butt M. M., Laieghi H., Kvvssn V., Uddin Z., Shah M., Ansari P., SALAMCI M. U., Patterson A. E., Kızıl H.

Progress in Additive Manufacturing, 2024 (ESCI)

IV. Additive manufacturing of geopolymer composites for sustainable construction: critical factors, advancements, challenges, and future directions

Krishna R., Rehman A. U., Mishra J., Saha S., Korniejenko K., Rehman R. U., SALAMCI M. U., Sglavo V. M., Shaikh F. U. A., Qureshi T. S.

Progress in Additive Manufacturing, 2024 (ESCI)

V. Selective laser oxidation sintering of cuprous oxide

Ur Rehman A., Ullah A., Liu T., Ur Rehman R., SALAMCI M. U., Liao W.

Materials Letters: X, vol.17, 2023 (Scopus)

VI. PRECISE CONTROL OF AN ELECTROMECHANICALLY-ACTUATED LAUNCHER UNDER PARAMETER UNCERTAINTY

KAMIŞLI H., SALAMCI M. U., ÖZKAN B.

ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY A - Applied Sciences and Engineering, vol.18, no.4, pp.788-803, 2017 (Peer-Reviewed Journal)

VII. Controller Designs for Nonlinear Systems with Application to 3 DOF Helicopter Model

KOCAGİL B. M., ARICAN A. Ç., Güzey Ü. M., Özcan S., SALAMCI M. U.

Gazi University Journal of Science Part A: Engineering and Innovation, vol.4, no.3, pp.47-66, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

I. Doğrusal Olmayan Titreşim

SALAMCI M. U.

in: Mekanik Titreşimler, Yaşar Pala, Editor, Nobel Akademik Yayıncılık Eğitim Danışmanlık Tic. Ltd. Şti, Ankara, pp.1036-1111, 2017

Refereed Congress / Symposium Publications in Proceedings

I. A Modified SDRE-based Sub-optimal Hypersurface Design in SMC

Ozcan S., Copur E. H., ARICAN A. Ç., SALAMCI M. U.

21st IFAC World Congress on Automatic Control - Meeting Societal Challenges, ELECTR NETWORK, 11 - 17 July 2020, vol.53, pp.6250-6255

II. Controller Design for a Nonlinear 3 DOF Helicopter Model Using Adaptive Sliding Surfaces

Kara F., SALAMCI M. U.

27th International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo, Bosnia And Herzegovina, 10 - 13 October 2019

III. Experiment of Sliding Mode Control with Nonlinear Sliding Surface Design for a 3-DOF Helicopter Model

Guzey U. M., ÇOPUR E. H., Ozcan S., ARICAN A. Ç., KOCAGİL B. M., SALAMCI M. U.

27th International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo, Bosnia And Herzegovina, 10 - 13 October 2019

IV. Adaptive Control of a 3 DoF Helicopter with Linear and Nonlinear Reference Models

KOCAGİL B. M., Ozcan S., ARICAN A. Ç., Guzey U. M., ÇOPUR E. H., SALAMCI M. U.

6th International Conference on Control Engineering and Information Technology (CEIT), İstanbul, Turkey, 25 - 27 October 2018

V. MRAC of a 3-DoF Helicopter with Nonlinear Reference Model

KOCAGİL B. M., Ozcan S., ARICAN A. Ç., Guzey U. M., ÇOPUR E. H., SALAMCI M. U.

26th Mediterranean Conference on Control and Automation (MED), Zadar, Croatia, 19 - 22 June 2018, pp.278-283

VI. Effect of Delay of Immune System Response in Cancer Dynamics: Bifurcation and Chaos Analysis

Soufiani B. N., SALAMCI M. U.

26th Mediterranean Conference on Control and Automation (MED), Zadar, Croatia, 19 - 22 June 2018, pp.765-770

VII. **Linear and Nonlinear Optimal Controller Design for a 3 DOF Helicopter**

ARICAN A. Ç., Ozcan S., KOCAGIL B. M., Guzey U. M., ÇOPUR E. H., SALAMCI M. U.

19th International Carpathian Control Conference (ICCC), Szilvasvarad, Hungary, 28 - 31 May 2018, pp.185-190

VIII. **Sliding Mode Control of an Electromechanically-Actuated Launcher by Diminishing the Thrust Effect**

KAMIŞLI H., ÖZKAN B., SALAMCI M. U.

2017 International Conference on Mechanical, System and Control Engineering (ICMSC 2017), St. Petersburg, Russia, 19 - 21 October 2017

IX. **Sliding Mode Control of an Electromechanically-Actuated Launcher by Diminishing the Thrust Effect**

Kamisli H., Ozkan B., SALAMCI M. U.

International Conference on Mechanical, System and Control Engineering (ICMSC), St Petersburg, Russia, 19 - 21 May 2017, pp.155-159

X. **Chaotic behavior in virotherapy for cancer treatment**

Soufiani B. N., SALAMCI M. U.

XXVI International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo, Bosnia And Herzegovina, 26 - 28 October 2017

XI. **Drug Administration in Cancer Treatment via Optimal Nonlinear State Feedback Gain Matrix Design**

Unal C., SALAMCI M. U.

20th World Congress of the International-Federation-of-Automatic-Control (IFAC), Toulouse, France, 9 - 14 July 2017, vol.50, pp.9979-9984

XII. **Suboptimal Control of a 3 DOF Helicopter with State Dependent Riccati Equations**

ARICAN A. Ç., Ozcan S., Guzey U. M., KOCAGIL B. M., SALAMCI M. U.

XXVI International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo, Bosnia And Herzegovina, 26 - 28 October 2017

XIII. **ADAPTIVE CONTROL DESIGN FOR NONLINEAR SYSTEMS VIA SUCCESSIVE APPROXIMATIONS**

Babaei N., SALAMCI M. U., Karakurt A. H.

10th ASME Annual Dynamic Systems and Control Conference, Virginia, United States Of America, 11 - 13 October 2017

XIV. **Parametre Belirsizliği Altında Elektromekanik Eyletimli Bir Fırlatma Aracının Hassas Denetimi**

KAMIŞLI H., SALAMCI M. U., ÖZKAN B.

TOK2016-Otomatik Kontrol Ulusal Toplantısı, Eskişehir, Turkey, 29 September - 01 October 2016, pp.779-784

XV. **State Dependent Riccati Equation Based Model Reference Adaptive Stabilization of Nonlinear Systems with Application to Cancer Treatment**

Babaei N., SALAMCI M. U.

IFAC 2014 World Congress, Cape-Town, South Africa, 24 - 29 August 2014, vol.47, pp.1296-1301

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Kamisli H., SALAMCI M. U., Ozkan B.

17th IEEE International Carpathian Control Conference (ICCC), Tatranska Lomnica, Slovakia, 29 May - 01 June 2016, pp.303-307

XVII. **Design of a Cascaded Control System for an Electromechanically-Actuated Launcher to Reduce the Thrust Effect**

Kamisli H., Ozkan B., SALAMCI M. U.

17th IEEE International Carpathian Control Conference (ICCC), Tatranska Lomnica, Slovakia, 29 May - 01 June 2016, pp.308-313

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Sahami F., SALAMCI M. U.

17th IEEE International Carpathian Control Conference (ICCC), Tatranska Lomnica, Slovakia, 29 May - 01 June 2016, pp.635-640

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17th IEEE International Carpathian Control Conference (ICCC), Tatranska Lomnica, Slovakia, 29 May - 01 June 2016, pp.54-59

- XX. **Model Reference Adaptive Control Design For Helicopters Using Gain Scheduled Reference Models**
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17th IEEE International Carpathian Control Conference (ICCC), Tatranska Lomnica, Slovakia, 29 May - 01 June 2016, pp.182-187
- XXI. **State Dependent Riccati Equation controlled drug delivery for mixed therapy of cancer treatment**
Babaei N., SALAMCI M. U., Çimen T.
16th IFAC Workshop on Control Applications of Optimization CAO'2015, 6 - 09 October 2015, vol.48, pp.265-270
- XXII. **Successive Approximations of Model Reference Adaptive Control Design for Nonlinear Systems**
KODALAK F., SALAMCI M. U.
16th IFAC Workshop on Control Applications of Optimization CAO'2015, 6 - 09 October 2015, vol.48, pp.248-253
- XXIII. **Elektromekanik Eyletimli Bir Fırlatma Sisteminin İtki Etkisini En Aza İndirgeyecek Şekilde Denetimi**
KAMIŞLI H., SALAMCI M. U., ÖZKAN B.
TOK2015-Otomatik Kontrol Ulusal Toplantısı, Denizli, Turkey, 10 - 12 September 2015, pp.1080-1085
- XXIV. **Decentralized Model Reference Adaptive Control Design for Nonlinear Systems; State Dependent Riccati Equation Approach**
Sahami F., SALAMCI M. U.
2015 16th International Carpathian Control Conference (ICCC), Szilvasvarad, Hungary, 27 - 30 May 2015, pp.437-442
- XXV. **Model Reference Adaptive Control Design for Nonlinear Systems using Linear Time Varying Approximations**
Kodalak F., SALAMCI M. U.
16th International Carpathian Control Conference (ICCC), Miskolc, Hungary, 27 - 30 May 2015, pp.202-207
- XXVI. **Model Reference Adaptive Control for MIMO Nonlinear Systems by using Linear Time Varying Approximation**
Babaei N., SALAMCI M. U.
16th International Carpathian Control Conference (ICCC), Miskolc, Hungary, 27 - 30 May 2015, pp.7-12
- XXVII. **Model Reference Adaptive Sliding Surface Design for Nonlinear Systems**
Kara F., SALAMCI M. U.
2015 16th International Carpathian Control Conference (ICCC), Szilvasvarad, Hungary, 27 - 30 May 2015, pp.190-195
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ÖZAKALIN M. U., SALAMCI M. U., ÖZKAN B.
19th IFAC World Congress, Cape-Town, South Africa, 24 August - 29 April 2014, vol.47, pp.10920-10925
- XXIX. **Determination of Optimal Feedback Gain Matrix for a Class of Nonlinear Systems**
Bilgin N., SALAMCI M. U.
15th International Carpathian Control Conference (ICCC), Velke Karlovice, Czech Republic, 28 - 30 May 2014, pp.46-51
- XXX. **VIBRATION ANALYSIS OF A VERTICAL ROLLER MILL: MODELING AND VALIDATION**
Copur E. H., SALAMCI M. U., Gulbeyaz S.
12th ASME Biennial Conference on Engineering Systems Design and Analysis (ESDA2014), Copenhagen, Denmark, 25 - 27 June 2014
- XXXI. **SLIDING MODE CONTROL DESIGN FOR NONLINEAR SYSTEMS WITHOUT REACHING PHASE AND ITS APPLICATIONS TO A FLEXIBLE SPACECRAFT**
Bilgin N., SALAMCI M. U.
12th ASME Biennial Conference on Engineering Systems Design and Analysis (ESDA2014), Copenhagen, Denmark, 25 - 27 June 2014

- XXXII. **Modeling, PID Control and Simulation of a Rocket Launcher System**
Dokumaci K., Aydemir M. T., SALAMCI M. U.
16th International Power Electronics and Motion Control Conference and Exposition (PEMC), Antalya, Turkey, 21 - 24 September 2014, pp.1283-1288
- XXXIII. **State Dependent Riccati Equation Based MRAC Design for Nonlinear Systems**
Babaei N., SALAMCI M. U.
International Conference on Information, Communication and Automation Technologies (ICAT), SARAYBOSNA, Bosnia And Herzegovina, 29 October - 01 November 2013
- XXXIV. **State Dependent Sliding Sectors For Nonlinear Systems With Nonlinear Sliding Surfaces**
Ozcan S., SALAMCI M. U., Birinci B. E.
American Control Conference (ACC), Washington, Kiribati, 17 - 19 June 2013, pp.5754-5759
- XXXV. **State Dependent Riccati Equation Based Model Reference Adaptive Control Design for Nonlinear Systems**
Babaei N., SALAMCI M. U.
24th International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo, Bosnia And Herzegovina, 30 October - 01 November 2013
- XXXVI. **Controller Design for Nonlinear Systems for Shaping the Transient Response**
Ünal C., SALAMCI M. U., Özgören M. K.
9th European Workshop on Advanced Control and Diagnosis, Budapest, Hungary, 17 - 18 November 2011
- XXXVII. **Dynamic Modelling and Vibration Analysis of a Vertical Roller Mill**
Çopur E. H., SALAMCI M. U., KARAÇAY T., TOKA E.
ISAAM&MIT 2011, Baku, Azerbaijan, 22 - 23 September 2011
- XXXVIII. **Sabit ve Değişken Kayma Yüzeyle Kayan Kipli Denetim Yönteminin Hidrolik Eyletimli Bir Kanat Yükleme Cihazına Deneysel Olarak Uygulanması**
ÖZAKALIN M. U., SALAMCI M. U., ÖZKAN B.
TOK2011-Otomatik Kontrol Ulusal Toplantısı, İzmir, Turkey, 14 - 16 September 2011, pp.139-144
- XXXIX. **Hidrolik Eyletimli Bir Yük Uygulama Sisteminin Sistem Tanımlama Yöntemi ile Dinamik Modelinin Çıkarılması**
ÖZAKALIN M. U., SALAMCI M. U., ÖZKAN B.
15. Ulusal Makina Teorisi Sempozyumu, Niğde, Turkey, 16 - 18 June 2011, pp.311-318
- XL. **Vibration Characteristics of a Vertical Roller Mill**
Çopur E. H., SALAMCI M. U., KARAÇAY T., TOKA E.
Int. Symp. of Mechanism and Machine Theory, İzmir, Turkey, 5 - 08 October 2010
- XLI. **Hidrolik Eyletimli Kanat Yükleme Cihazının Kayan Kipli Denetleyici ile Tork Denetimi**
ÖZAKALIN M. U., SALAMCI M. U., ÖZKAN B.
TOK2010-Otomatik Kontrol Ulusal Toplantısı, Kocaeli, Turkey, 21 - 23 September 2010, vol.1, pp.193-198
- XLII. **SDRE missile autopilot design using sliding mode control with moving sliding surfaces**
SALAMCI M. U., Gökbilen B.
17th IFAC Symposium on Automatic Control in Aerospace, France, 26 - 30 June 2007, vol.40, pp.768-773
- XLIII. **Vibration suppression of an elastic beam via sliding mode control**
Itik M., SALAMCI M. U., Ulker F. D.
7th International Conference on Vibration Problems (ICOVP 2005), İstanbul, Turkey, 5 - 09 September 2005, vol.111, pp.237-238
- XLIV. **Nonlinear wave equations and boundary control using visco elastic dampers**
Banks S. P., SALAMCI M. U.
7th International Conference on Vibration Problems (ICOVP 2005), İstanbul, Turkey, 5 - 09 September 2005, vol.111, pp.79-80
- XLV. **Sliding mode control for nonlinear systems: An iterative approach**
Tomas-Rodriguez M., Banks S. P., SALAMCI M. U.
45th IEEE Conference on Decision and Control, California, United States Of America, 13 - 15 December 2006, pp.4964-4965

- XLVI. **Sliding mode control design with time varying sliding surfaces for a class of nonlinear systems**
SALAMCI M. U., Tombul G. S.
IEEE International Conference on Control Applications, Munich, Germany, 4 - 06 October 2006, pp.592-597
- XLVII. **Robot Manipulatörlere Uygulanan Kayma Yüzeyle Kontrol Yöntemlerinin Karşılaştırılması**
SALAMCI M. U., Özgören M. K.
7. Ulusal Makine Teorisi Sempozyumu, İstanbul, Turkey, 3 - 05 September 1995, pp.397-406

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