

Prof. NURKAN YAĞIZ

Personal Information

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Education Information

Doctorate, İstanbul Üniversitesi, Fen Bilimleri, Makine Mühendisliği, Turkey 1990 - 1993

Postgraduate, Orta Doğu Teknik Üniversitesi, Fen Bilimleri, Makine Mühendisliği, Turkey 1984 - 1986

Undergraduate, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 1980 - 1984

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Taşıt Süspansiyon Sistemlerinin Bond Graf ile Modelleme ve Simulasyonu, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 1993

Postgraduate, Effects of Dry Friction on Vehicle Suspension Systems , Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 1986

Research Areas

Mechanical Engineering, Machine Theory and Dynamics, System Dynamics and Control, Vehicle Systems Dynamics, Engineering and Technology

Academic Titles / Tasks

Professor, İstanbul University, Mühendislik Fakültesi, Makina Mühendisliği, 2002 - Continues

Academic and Administrative Experience

İstanbul Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2016 - Continues

İstanbul Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2015 - 2016

İstanbul Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2002 - 2016

İstanbul Üniversitesi, 2009 - 2012

İstanbul Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2002 - 2009

Courses

Seminer, Doctorate, 2014 - 2015
Non-lineer Kontrol Teorisi, Doctorate, 2014 - 2015
Seminer, Postgraduate, 2014 - 2015
Makine Labotatuvarı III, Undergraduate, 2005 - 2006
Makine Labotatuvarı II, Undergraduate, 2005 - 2006
Makine Elemanları II, Undergraduate, 2005 - 2006
Sistem Dinamiği ve Kontrol, Undergraduate, 2001 - 2002
Makina Dinamiği ve Mekanizma Tekniği, Undergraduate, 1999 - 2000
Otomatik Kontrol, Undergraduate, 1995 - 1996

Advising Theses

YAĞIZ N., Oturma Pozisyonunda Titreşime Maruz Kalan İnsan Vücudunun Omurga Bölgesinin Biyomekanik Analizi, Doctorate, S.Cansel(Student), Continues
YAĞIZ N., ARSLAN Y. Z. , Dinamik Kasılma Esnasındaki Kas Koordinasyonunun Biyomekanik Analizi, Doctorate, N.Korkmaz(Student), 2017
YAĞIZ N., Taşıtlarda Devrilme Hareketinin Kontrolü, Doctorate, M.Türkkan(Student), 2016
YAĞIZ N., Mekanik Sistemlerin Yüksek Dereceden Back Stepping Kontrolü, Doctorate, H.Ömür(Student), 2016
YAĞIZ N., Akış Kaynaklı Titreşimlerin Gürbüz Kontrolü, Doctorate, A.Sezgin(Student), 2015
YAĞIZ N., Otobüslerde Seyir Konforunun Bulanık Mantıklı Kontrolcü Kullanılarak İyileştirilmesi, Postgraduate, M.Gözütok(Student), 2010
YAĞIZ N., Otobüslerde Seyir Konforunun Bulanık Mantıklı Kontrolcü Kullanılarak İyileştirilmesi, Postgraduate, N.Korkmaz(Student), 2010
YAĞIZ N., Kas İskelet Sisteminin Mekaniki ve Kuvvet Optimizasyonu Analizi, Doctorate, Y.Ziya(Student), 2009
YAĞIZ N., Mekanik Sistemlerin Backstepping Kontrolü, Doctorate, Y.Hacıoğlu(Student), 2009
YAĞIZ N., Bir Bina Modelinin Titreşimlerinin Deneysel Analizi, Postgraduate, H.Ömür(Student), 2009
YAĞIZ N., Taşıt Titreşimlerinin Analizi ve Kontrolü, Doctorate, Y.Taşkın(Student), 2008
YAĞIZ N., Taşıt Süspansiyon Sistemlerinin Bulanık Mantıklı Kayan Kipli Kontrolü, Doctorate, F.Nihat(Student), 2008
YAĞIZ N., Taşıtların ve Yapıların Etkileşimli Titreşimlerinin Analizi, Doctorate, L.Emir(Student), 2007
YAĞIZ N., Taşıt Süspansiyon Sistemlerinin MR Sönümleyici Kullanarak Kontrolü, Postgraduate, B.Bilgiç(Student), 2007
YAĞIZ N., UZAL E., Akışkanlar Mekaniğinde Kontrol Teorisi Uygulamaları, Doctorate, M.Kucur(Student), 2007
YAĞIZ N., Taşıt Süspansiyon Sistemlerinin Bulanık Mantık Ayarlı PID Kontrolü, Postgraduate, K.Çelikel(Student), 2006
YAĞIZ N., Uçak Kanatlarının Flutter Analizi, Doctorate, B.Körbahti(Student), 2005
YAĞIZ N., İnsanın İki Kolunun Ortak Hareketi Esnasında Oluşan Eklem Momentlerinin EMG Sinyalleri Yardımı ile Analizi, Postgraduate, Y.Ziya(Student), 2005
YAĞIZ N., Bir Robotun Bulanık Mantıklı Kayan Kipli Kontrolü, Postgraduate, Y.Hacıoğlu(Student), 2004
YAĞIZ N., Dinamik Sönümleyici Kullanarak Taşıt Titreşimlerinin Azaltılması, Postgraduate, K.Çetinkaya(Student), 2004
YAĞIZ N., Taşıt Süspansiyon Sistemlerinin Bulanık Mantıklı Kontrolü, Doctorate, S.Erdem(Student), 2003
YAĞIZ N., Raylı Taşıtların Aktif Süspansiyon Kontrolü, Postgraduate, A.Gürsel(Student), 2003
YAĞIZ N., Radyo Dalgaları Yolu ile Laser ile Metal Kesme, Postgraduate, C.Erol(Student), 2002
YAĞIZ N., Taşıtlarda Yanal Kaymanın Kontrolü, Postgraduate, A.Sarioğlu(Student), 2002
YAĞIZ N., Buji Ateşlemeli Motorlarda Silindir İçi Dolgu Miktarlarının Matematiksel Modellenmesi, Doctorate, A.Şenlikçi(Student), 2002
YAĞIZ N., Taşıtlarda Süspansiyon Daralması Sorununun Analizi, Postgraduate, L.Emir(Student), 2002
YAĞIZ N., Deprem Karşısında Bina Titreşimlerinin Analizi ve Kontrolü, Postgraduate, C.Ertal(Student), 2001
YAĞIZ N., Robot Kontrolü ve Kinematiki, Postgraduate, C.Semetay(Student), 2001
YAĞIZ N., Aktif Süspansiyonlarda Kullanılan Kontrol Yöntemlerinin Taşıtların Dinamik Davranışlarına Etkileri, Postgraduate, T.Sağdıç(Student), 2000

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

- I. **Fuzzy Logic Preanesthetic Risk Evaluation of Laparoscopic Cholecystectomy Operations**
SANDAL B., Hacıoğlu Y., SALİHOĞLU Z., YAĞIZ N.
AMERICAN SURGEON, 2021 (Journal Indexed in SCI)
- II. **Sliding mode control of a line following robot**
Yildiz H., Korkmaz Can N., ÖZGÜNEY Ö. C. , YAĞIZ N.
Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.42, no.11, 2020 (Journal Indexed in SCI)
- III. **Design of a fuzzy robust-adaptive control law for active suspension systems**
Ozbek C., Ozguney Ö. C. , Burkan R., Yagiz N.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.45, no.1, 2020 (Journal Indexed in SCI)
- IV. **Fuzzy robust backstepping with estimation for the control of a robot manipulator**
HACIOĞLU Y., YAĞIZ N.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.41, no.10, pp.2816-2825, 2019 (Journal Indexed in SCI)
- V. **High order sliding mode control with estimation for vehicle active suspensions**
Ozer H. O. , Hacıoğlu Y., Yagiz N.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.40, no.5, pp.1457-1470, 2018 (Journal Indexed in SCI)
- VI. **Vibration control of vehicles with active tuned mass damper**
Taskin Y., Yuksek I., Yagiz N.
JOURNAL OF VIBROENGINEERING, vol.19, no.5, pp.3533-3541, 2017 (Journal Indexed in SCI)
- VII. **Experimental evaluation of a fuzzy logic controller on a quarter car test rig**
Taşkın Y., Hacıoğlu Y., Yağız N.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.39, no.7, pp.2433-2445, 2017 (Journal Indexed in SCI)
- VIII. **Suppression of structural vibrations using PDPI plus PI type fuzzy logic controlled active dynamic absorber**
Ozer H. O. , Hacıoğlu Y., Yagiz N.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.38, no.7, pp.2105-2115, 2016 (Journal Indexed in SCI)
- IX. **Sliding Mode Control Optimized by Genetic Algorithm for Building Model**
Ozer H. Ö. , Sayin A., Korkmaz N., Yagiz N.
JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES, vol.4, no.1, pp.13-19, 2016 (Journal Indexed in SCI)
- X. **Suppression of structural vibrations using PDPI + PI type fuzzy logic controlled active dynamic absorber**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.38, pp.1-11, 2015 (Journal Indexed in SCI Expanded)
- XI. **Improving the ride comfort of vehicle passenger using fuzzy sliding mode controller**
Arslan Y. Z. , Sezgin A., Yagiz N.
JOURNAL OF VIBRATION AND CONTROL, vol.21, no.9, pp.1667-1679, 2015 (Journal Indexed in SCI)
- XII. **Control of a Biomimetic Robot Hand Finger: Classical, Robust, and Intelligent Approaches**
Arslan Y. Z. , TAŞKIN Y., HACIOĞLU Y., YAĞIZ N.
HANDBOOK OF RESEARCH ON ADVANCEMENTS IN ROBOTICS AND MECHATRONICS, pp.475-499, 2015 (Journal Indexed in SCI)
- XIII. **Adaptive backstepping control with estimation for the vibration isolation of buildings**
Hacıoğlu Y., Yagiz N.
JOURNAL OF VIBRATION AND CONTROL, vol.18, no.13, pp.1996-2005, 2012 (Journal Indexed in SCI)
- XIV. **MIMO fuzzy sliding mode controlled dual arm robot in load transportation**

Hacioglu Y., Arslan Y. Z. , Yagiz N.

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.348, no.8, pp.1886-1902, 2011 (Journal Indexed in SCI)

- XV. **Load transportation by dual arm robot using sliding mode control**
Yagiz N., Hacioglu Y., Arslan Y. Z.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.24, no.5, pp.1177-1184, 2010 (Journal Indexed in SCI)
- XVI. **Fuzzy sliding mode control of a finger of a humanoid robot hand**
Arslan Y. Z. , Hacioglu Y., Yagiz N.
EXPERT SYSTEMS, vol.26, no.3, pp.291-303, 2009 (Journal Indexed in SCI)
- XVII. **Robust control of a spatial robot using fuzzy sliding modes**
Yagiz N., Hacioglu Y.
MATHEMATICAL AND COMPUTER MODELLING, vol.49, pp.114-127, 2009 (Journal Indexed in SCI)
- XVIII. **Backstepping control of a vehicle with active suspensions**
Yagiz N., Hacioglu Y.
CONTROL ENGINEERING PRACTICE, vol.16, no.12, pp.1457-1467, 2008 (Journal Indexed in SCI)
- XIX. **Fuzzy Sliding-Mode Control of Active Suspensions**
Yagiz N., Hacioglu Y., Taskin Y.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.55, no.11, pp.3883-3890, 2008 (Journal Indexed in SCI)
- XX. **Prosthetic hand finger control using fuzzy sliding modes**
Arslan Y. Z. , Hacioglu Y., Yagiz N.
JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, vol.52, no.1, pp.121-138, 2008 (Journal Indexed in SCI)
- XXI. **PI+PD type fuzzy logic controlled dual-arm robot in load transfer**
Hacioglu Y., Arslan Y. Z. , Yagiz N.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.54, no.5, pp.347-355, 2008 (Journal Indexed in SCI)
- XXII. **Different control applications on a vehicle using fuzzy logic control**
Yagiz N., Sakman L. E. , GÜÇLÜ R.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.33, no.1, pp.15-25, 2008 (Journal Indexed in SCI)
- XXIII. **Sliding mode control of a finger for a prosthetic hand**
Yagiz N., Arslan Y. Z. , Hacioglu Y.
JOURNAL OF VIBRATION AND CONTROL, vol.13, no.6, pp.733-749, 2007 (Journal Indexed in SCI)
- XXIV. **The use of fuzzy-logic control to improve the ride comfort of vehicles**
Taşkın Y., Hacıoğlu Y., Yağız N.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.53, no.4, pp.233-240, 2007 (Journal Indexed in SCI)
- XXV. **Fuzzy logic control of a full vehicle without suspension gap degeneration**
Yagiz N., Sakman L. E.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.42, pp.198-212, 2006 (Journal Indexed in SCI)
- XXVI. **Vibrations of a rectangular bridge as an isotropic plate under a traveling full vehicle model**
Yagiz N., Sakman L. E.
JOURNAL OF VIBRATION AND CONTROL, vol.12, no.1, pp.83-98, 2006 (Journal Indexed in SCI)
- XXVII. **Robust sliding mode control of a full vehicle without suspension gap loss**
Yagiz N., Sakman L. E.
JOURNAL OF VIBRATION AND CONTROL, vol.11, no.11, pp.1357-1374, 2005 (Journal Indexed in SCI)
- XXVIII. **Fuzzy logic control of vehicle suspensions with dry friction nonlinearity**
Sakman L. E. , GÜÇLÜ R., Yagiz N.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.30, pp.649-659, 2005 (Journal Indexed in SCI)
- XXIX. **Fuzzy sliding modes with moving surface for the robust control of a planar robot**

Yagiz N., Hacıoğlu Y.

JOURNAL OF VIBRATION AND CONTROL, vol.11, no.7, pp.903-922, 2005 (Journal Indexed in SCI)

- XXX. **Comparison and evaluation of different control strategies on a full vehicle model with passenger seat using sliding modes**

Yagiz N.

INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.34, no.2, pp.168-182, 2004 (Journal Indexed in SCI)

- XXXI. **Sliding mode control of active suspensions for a full vehicle model**

YAĞIZ N., YÜKSEK İ.

INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.26, pp.264-276, 2001 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Determination of Preanesthetic High-Risk Using Fuzzy Risk Evaluation for Surgical Operations**
SANDAL B., HACIOĞLU Y., YAĞIZ N., SALİHOĞLU E.
TÜRKİYE KLİNİKLERİ TIP BİLİMLERİ DERGİSİ, vol.39, no.1, pp.19-25, 2019 (Other Refereed National Journals)
- II. **Controlling the building model using high order sliding mode control optimized by multi objective genetic algorithm**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
Periodicals of Engineering and Natural Sciences, vol.5, no.3, pp.256-262, 2017 (Refereed Journals of Other Institutions)
- III. **Controlling the Building Model Using High Order Sliding Mode Control Optimized by Multi Objective Genetic Algorithm**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
Periodicals of Engineering and Natural Sciences, vol.5, pp.256-262, 2017 (International Refereed University Journal)
- IV. **Control of Vehicle Active Suspensions with Actuator Delay via Distributed Backstepping**
SEZGİN A., HACIOĞLU Y., YAĞIZ N.
International Journal of Science and Engineering Investigations, vol.6, no.69, pp.131-140, 2017 (Refereed Journals of Other Institutions)
- V. **Distributed Backstepping Control with Actuator Delay for Active Suspension System**
SEZGİN A., HACIOĞLU Y., YAĞIZ N.
international journal of applied mathematics and informatics, vol.10, pp.105-109, 2016 (Refereed Journals of Other Institutions)
- VI. **High order sliding modes for vehicle suspensions via optimized super twisting algorithm**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
International Journal of Mechanical And Production Engineering, vol.4, no.8, pp.47-52, 2016 (Refereed Journals of Other Institutions)
- VII. **Sliding Mode Control for Active Suspension System with Actuator Delay**
SEZGİN A., HACIOĞLU Y., YAĞIZ N.
International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, vol.10, pp.1360-1364, 2016 (Refereed Journals of Other Institutions)
- VIII. **High Order Sliding Modes for Vehicle Suspensions via Optimized Super Twisting Algorithm**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
International Journal of Mechanical and Production Engineering (IJMPE), vol.4, pp.47-52, 2016 (Refereed Journals of Other Institutions)
- IX. **Sliding Mode Control of a Bus Suspension System**
TÜRKKAN M., YAĞIZ N.
International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, no.10, pp.1533-1537, 2016 (Refereed Journals of Other Institutions)
- X. **Sliding Mode Control Tuned by Multi Objective Genetic Algorithm for a Half Vehicle**

Özer H. Ö. , Sayın A., Korkmaz N., Yağız N.

International Journal of Scientific and Technological Research, vol.1, pp.42-54, 2015 (Refereed Journals of Other Institutions)

- XI. **Improving Ride Comfort of a Bus Using Fuzzy Logic Controlled Suspension**
TÜRKKAN M., YAĞIZ N.
International Journal of Mechanical, Aerospace, Industrial, Mechatronics and Manufacturing Engineering, no.8, pp.691-694, 2014 (Refereed Journals of Other Institutions)
- XII. **Cluster PID Control of Viaduct Road Vibration**
YÜKSEK İ., Kepçeler T., GUCLU R., YAĞIZ N.
INTERNATIONAL APPLIED MECHANICS, vol.41, pp.1204-1209, 2005 (International Refereed University Journal)
- XIII. **Fuzzy Logic Control of Vehicle Suspensions with Dry Friction Non-linearity**
SAKMAN L. E. , GUCLU R., YAĞIZ N.
SADHANA, vol.30, pp.649-659, 2005 (Refereed Journals of Other Institutions)
- XIV. **Active Suspension Control of a Railway Vehicle with a Flexible Body**
YAĞIZ N., Gürsel A.
Int. J. Vehicle Autonomous Systems, vol.3, pp.80-85, 2005 (Refereed Journals of Other Institutions)
- XV. **Comparison of Different Control Strategies on a Vehicle Using Sliding Mode Control**
GUCLU R., YAĞIZ N.
IJST, vol.28, pp.413-422, 2004 (Refereed Journals of Other Institutions)
- XVI. **Analysis of Viaduct Road Vibrations Using Cluster Filtering and Actuation**
YAĞIZ N., YÜKSEK İ., Yüksek K., GUCLU R., KIKUSHIMA Y.
Tr.J. of Engineering and Environmental Science, pp.213-219, 2003 (Refereed Journals of Other Institutions)
- XVII. **Evaluation of Control Methods on a Structural System**
YAĞIZ N., ERTAL C.
MATHEMATICAL AND COMPUTATIONAL APPLICATIONS, vol.8, pp.369-376, 2003 (Refereed Journals of Other Institutions)
- XVIII. **Vibration control of a building with ATMD under earthquake Excitation**
YAĞIZ N.
International Journal of Applied Mechanics and Engineering, vol.8, pp.117-123, 2003 (Refereed Journals of Other Institutions)
- XIX. **PD Control of Vibrations of Multi-Degree of Freedom Structural Systems**
YAĞIZ N., GUCLU R., YÜKSEK İ.
YTÜD Yıldız Teknik Üniversitesi Dergisi, pp.1, 2003 (National Refreed University Journal)
- XX. **Fuzzy Logic Control of Vehicle Suspension Systems for Bumpy Roads**
YAĞIZ N., GUCLU R., YÜKSEK İ.
YTÜD Yıldız Teknik Üniversitesi Dergisi, pp.1, 2002 (National Refreed University Journal)
- XXI. **Robust Control of a Spatial Robot Using Sliding Modes**
YAĞIZ N.
MATHEMATICAL AND COMPUTATIONAL APPLICATIONS, vol.7, pp.219-228, 2002 (Refereed Journals of Other Institutions)
- XXII. **An Evaluation of Sliding Mode Control for Vehicle Suspensions**
YÜKSEK İ., YAĞIZ N., Sivrioğlu S.
Journal of Robotics and Mechatronics, vol.14, pp.420-428, 2002 (Refereed Journals of Other Institutions)
- XXIII. **Dynamic Analysis of Vehicle Power Transmission Systems**
GUCLU R., YAĞIZ N.
YTÜD Yıldız Teknik Üniversitesi Dergisi, pp.1, 2001 (National Refreed University Journal)
- XXIV. **Aktif Kütle Sönümleyicili Çok Serbestlik Dereceli Bir Yapının Depreme Karşı LQR Kontrolü**
YAĞIZ N., GUCLU R., YÜKSEK İ.
Mühendis ve Makina Dergisi, no.498, pp.1, 2001 (Other Refereed National Journals)
- XXV. **Sliding Mode Control of a Planar Flexible Single-Arm Robot**
YAĞIZ N., YÜKSEK İ., Kepçeler T.

- POLİTEKNİK DERGİSİ, vol.4, no.2, pp.1, 2001 (Other Refereed National Journals)
- XXVI. **Sliding Mode Control of a Multi-Degree-of-Freedom Structural System With Active Tuned Mass Damper**
YAĞIZ N.
TURKISH JOURNAL OF ENGINEERING AND ENVIRONMENTAL SCIENCES, vol.25, no.6, pp.651-657, 2001 (Refereed Journals of Other Institutions)
- XXVII. **Robust Control of Active Suspensions Using Sliding Modes**
YAĞIZ N., YÜKSEK İ.
Tr.J. of Engineering and Environmental Science, vol.25, pp.79-87, 2001 (Refereed Journals of Other Institutions)
- XXVIII. **Sliding Modes Control of Vehicle Suspension Systems**
YÜKSEK İ., YAĞIZ N., Kepçeler T., ÖZBULUR V.
YTÜD Yıldız Teknik Üniversitesi Dergisi, no.4, pp.148-156, 2000 (National Refreed University Journal)
- XXIX. **Robust Control of Active Suspensions for a Full Vehicle Model Using Sliding Mode Control**
YAĞIZ N., Yüksek İ., Sivrioğlu S.
JSME INTERNATIONAL JOURNAL SERIES C-MECHANICAL SYSTEMS MACHINE ELEMENTS AND MANUFACTURING, vol.43, no.2, pp.253-258, 2000 (Refereed Journals of Other Institutions)
- XXX. **Taşıt Güç Aktarma Organlarının Dinamik Davranışının Analizi**
YAĞIZ N.
Otomotiv Dergisi, vol.1, pp.1, 1999 (Other Refereed National Journals)
- XXXI. **Taşıt Süspansiyon Sistemlerinin Aktif Kontrolünde Kullanılan Metodların Tanıtılması ve Kıyası**
YAĞIZ N., Yüksel İ., GÜVEN H. R.
Mühendis ve Makina Dergisi, Makine Mühendisleri Odası Yayını, vol.40, no.477, pp.1, 1999 (Other Refereed National Journals)
- XXXII. **Otomotiv Süspansiyon Sistemlerinin Kontrolü**
YAĞIZ N.
Otomotiv Dergisi, vol.1, pp.1, 1997 (Other Refereed National Journals)
- XXXIII. **Şaft-Disk Sisteminde Doğal Frekansların Hesaplanması**
GÜVEN H. R. , YAĞIZ N.
Mühendis ve Makina Dergisi, vol.1, pp.1, 1993 (Other Refereed National Journals)

Books & Book Chapters

- I. **Control of a Biomimetic Robot Hand Finger: Classical, Robust and Intelligent Approaches**
ARSLAN Y. Z. , HACIOĞLU Y., TAŞKIN Y., YAĞIZ N.
in: Handbook of Research on Advancements in Robotics and Mechatronics, Habib M. K., Editor, Igi Global Publisher, Hershey, Pa, pp.475-499, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **PID control design for a cooling system**
SANDAL B., HACIOĞLU Y., YAĞIZ N.
4th International Energy & Engineering Congress 2019, Gaziantep, Turkey, 24 - 25 October 2019, pp.214-222
- II. **Investigation of a heating system under on-off control**
SANDAL B., HACIOĞLU Y., YAĞIZ N.
International Natural Science, Engineering and Materials Technology Conference (NEM 2019), İstanbul, Turkey, 9 - 10 September 2019, pp.42-51
- III. **Mathematical modelling and analysis of a heating system**
SANDAL B., HACIOĞLU Y., YAĞIZ N.
Fourth International Conference on Advances in Mechanical Engineering: ICAME 2018, İstanbul, Turkey, 19 - 21

December 2018, pp.1626-1630

- IV. **Implementation of Model-Based Adaptive Controller on Vehicle Active Suspension Systems**
ÖZBEK C., BURKAN R., YAĞIZ N.
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 19 - 21
December 2018, pp.499-507
- V. **Dynamic modelling and simulation of a cooling system**
SANDAL B., HACIOĞLU Y., YAĞIZ N.
Fourth International Conference on Advances in Mechanical Engineering: ICAME 2018, İstanbul, Turkey, 18 - 21
December 2018, pp.1631-1636
- VI. **Stability of Model Reaching Adaptive Control Law and its Verification on a Quarter Car**
ÖZBEK C., BURKAN R., YAĞIZ N.
2. Mediterranean Natural Sciences and Engineering Congress (MENSEC 2018), 26 - 29 June 2018, pp.41-54
- VII. **Distributed Backstepping Approach for the Control of Half-Car Active Suspensions with Input Delay**
SEZGİN A., HACIOĞLU Y., YAĞIZ N.
2nd International Conference on Mechanical Engineering and Robotics Research (ICMERR 2017), Paris, France, 11
- 13 December 2017, pp.1-5
- VIII. **Fuzzy-Sliding Mode Control of a Quarter Bus Model with an Air Suspension System**
TÜRKKAN M., YAĞIZ N.
International Conference of Applied Sciences, Engineering and Mathematics, Struga, Macedonia, 5 - 07 May 2017,
pp.71
- IX. **Vibration Control of a Bus Suspension System with an Air Spring Using PD Type Fuzzy Logic
Controller**
TÜRKKAN M., YAĞIZ N.
International Conference of Applied Sciences, Engineering and Mathematics, Struga, Macedonia, 5 - 07 May 2017,
pp.73
- X. **Controlling the Building Model Using High Order Sliding Mode Control Optimized by Multi Objective
Genetic Algorithm**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
International Conference on Engineering Technology and Innovation (ICETI 2017), Saraybosna, Bosnia And
Herzegovina, 22 - 26 March 2017, pp.229-235
- XI. **Controlling the Building Model Using High Order Sliding Model Control Optimized by Multi Objective
Genetic Algorithm**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
International Conference on Engineering Technology and Innovation (ICETI 2017), Sarajevo, Bosnia And
Herzegovina, 22 - 26 March 2017, pp.1-6
- XII. **Controlling the building model using high order sliding mode control optimized by multi objective
genetic algorithm**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
International Conference on Engineering Technology and Innovation, Sarajevo, Bosnia And Herzegovina, 22 - 26
March 2017, pp.1-6
- XIII. **Optimized Super Twisting Algorithm for Active Suspension System of a Quarter Car Model**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
5th International Conference on Electrical, Computer, Mechanical and Mechatronics Engineering (ICE-2016),
İstanbul, Turkey, 1 - 02 September 2016, pp.32
- XIV. **Multi-Body Analysis of Human Cervical Spine for Whiplash Effect**
KORKMAZ CAN N., TÜRKKAN M., YAĞIZ N.
5th International Conference on Electrical, Computer, Mechanical and Mechatronics Engineering, İstanbul, Turkey,
1 - 02 September 2016, pp.12
- XV. **High order sliding modes for vehicle suspensions via optimized super twisting algorithm**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
The IRES - 63rd International Conferences on Engineering and Natural Science (ICENS), Amsterdam, Netherlands,

26 - 27 June 2016, pp.5-10

- XVI. **Suppression of Structural Vibrations Using Dynamic Absorber**
ÖZER H. Ö. , YAĞIZ N., HACIOĞLU Y.
International Conference on Engineering Vibration (ICOEV 2015), Ljubljana, Slovenia, 7 - 10 September 2015, pp.897-907
- XVII. **High order sliding mode control of a pendulum**
ÖZER H. Ö. , HACIOĞLU Y., YAĞIZ N.
ICE2015 - 2nd International Conference on Electrical, Computer, Mechanical and Mechatronics Engineering, İstanbul, Turkey, 27 - 28 August 2015, pp.1-4
- XVIII. **Improving Ride Comfort Of A Bus Using Fuzzy Logic Controlled Suspension**
TÜRKKAN M., YAĞIZ N.
ICMAME, International Conference on Mechanical, Aeronautical and Manufacturing Engineering, Lisbon, Portugal, 17 - 18 April 2014, vol.8, no.4, pp.534-537
- XIX. **GENETIC ALGORITHM INTEGRATED SLIDING MODE CONTROL OF A VEHICLE**
ÖZER H. Ö. , SAYIN A., KORKMAZ CAN N., YAĞIZ N.
11th World Congress on Computational Mechanics (WCCM) / 5th European Conference on Computational Mechanics (ECCM) / 6th European Conference on Computational Fluid Dynamics (ECFD), Barcelona, Spain, 20 - 25 July 2014, pp.3857-3868
- XX. **16. Ulusal Makina Teorisi Sempozyumu**
SEZGİN A., ARSLAN Y. Z. , YAĞIZ N.
Yol Kaynaklı Taşıt Titreşimlerinin İnsan Vücudu Üzerindeki Etkisinin Kayan Kipli Kontrolcü ile Azaltılması, Erzurum, Turkey, 11 - 12 September 2013, vol.1, pp.34-41
- XXI. **SLIDING MODE CONTROL OPTIMIZED BY GENETIC ALGORITHM FOR BUILDING MODEL**
ÖZER H. Ö. , SAYIN A., KORKMAZ N., YAĞIZ N.
11th INTERNATIONAL CONFERENCE ON VIBRATION PROBLEMS, Lisbon, Portugal, 9 - 12 September 2013, pp.1-10
- XXII. **Yol Kaynaklı Taşıt Titreşimlerinin İnsan Vücudu Üzerindeki Etkisinin Kayan Kipli Kontrolcü ile Azaltılması**
SEZGİN A., ARSLAN Y. Z. , YAĞIZ N.
16. Ulusal Makina Teorisi Sempozyumu, Erzurum, Turkey, 1 - 04 September 2013, vol.1, no.1, pp.34-41
- XXIII. **Sliding Mode Control Optimized By Genetic Algorithm For Building Model**
ÖZER H. Ö. , SAYIN A., KORKMAZ N., YAĞIZ N.
11th International Conference On Vibration Problems, Lisbon, Portugal, 1 - 04 September 2013, pp.1-10
- XXIV. **Control of vehicle active suspensions by using PD plus PI type fuzzy logic with sliding surface**
Hacıoğlu Y., Yağiz N.
1st International Conference on Mathematical Modelling in Physical Sciences (IC-MSQUARE), Budapest, Hungary, 3 - 07 September 2012, vol.410
- XXV. **Lumped parameter identification of a quarter car test rig**
Taskin Y., Yagiz N., Yüksek İ.
1st International Conference on Mathematical Modelling in Physical Sciences (IC-MSQUARE), Budapest, Hungary, 3 - 07 September 2012, vol.410
- XXVI. **Fuzzy logic control for active bus suspension system**
Turkkan M., Yagiz N.
1st International Conference on Mathematical Modelling in Physical Sciences (IC-MSQUARE), Budapest, Hungary, 3 - 07 September 2012, vol.410
- XXVII. **Dynamic Absorber Design for Experimental Two Storey Building Model**
Ozer H. Ö. , Yagiz N.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Greece, 19 - 25 September 2012, vol.1479, pp.1911-1914
- XXVIII. **Analysis of passenger ride comfort**
SEZGİN A., Yagiz N.
1st International Conference on Structural Nonlinear Dynamics and Diagnosis, CSNDD 2012, Marrakech, Morocco,

30 April - 02 May 2012, vol.1

- XXIX. **Reducing Vibration Effects on the Two Storey Building Model Using Dynamic Absorber**
ÖZER H. Ö. , YAĞIZ N.
Second International Conference on Advances in Mechanical Engineering- AME 2011, India, pp.7-10
- XXX. **The Modeling and Simulation of a Half-Vehicle Model with Driver**
SEZGİN A., ULUS T., YAĞIZ N.
Second International Conference on Advances in Mechanical Engineering - AME 2011, India, pp.22-26
- XXXI. **Otobüslerde Seyir Konforunun Bulanık Mantıklı Kontrolcü Kullanılarak İyileştirilmesi**
TÜRKKAN M., YAĞIZ N.
15. Ulusal Makina Teorisi Sempozyumu, Niğde, Turkey, pp.45-51
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15. ULUSAL MAKİNA TEORİSİ SEMPOZYUMU, Niğde, Turkey, pp.559-565
- XXXIII. **Bir Çeyrek Taşıt Modelinin Sürücüsü ile Modellenmesi ve Simülasyonu**
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15. Ulusal Makina Teorisi Sempozyumu, Niğde, Turkey, pp.215-221
- XXXIV. **Assessment of force prediction performances of the phenomenological musculotendinous unit models**
ARSLAN Y. Z. , ULUS T., YAĞIZ N.
XV Scientific Convention of Engineering and Architecture (CCIA 15), Havana, Cuba, 29 November - 03 December 2010, vol.1, pp.1
- XXXV. **Fuzzy sliding mode controllers for vibration suppression of buildings**
HACIOĞLU Y., YAĞIZ N.
XV Scientific Convention of Engineering and Architecture (CCIA 15), Havana, Cuba, 29 November - 03 December 2010, vol.1, pp.1
- XXXVI. **Robust geri adımlamalı kontrol ile robot yörünge takibi**
HACIOĞLU Y., YAĞIZ N.
Otomatik Kontrol Ulusal Toplantısı 2009, İstanbul, Turkey, 13 - 16 October 2009, vol.1, pp.1
- XXXVII. **Sliding mode control of a vehicle with non-linearities**
YAĞIZ N., HACIOĞLU Y., TAŞKIN Y.
Sixth EUROMECH Nonlinear Dynamics Conference (ENOC-2008), Russia
- XXXVIII. **Geri adımlamalı kontrol ile taşıtların seyir konforunun iyileştirilmesi**
YAĞIZ N., HACIOĞLU Y.
13. Ulusal Makina Teorisi Sempozyumu, Sivas, Turkey, 7 - 09 June 2007, vol.1, pp.1
- XXXIX. **Simultaneous trajectory manipulation of a dual-arm robot using sliding mode control**
YAĞIZ N., HACIOĞLU Y., ARSLAN Y. Z.
Proceedings of the 12-th International Conference on Aerospace Sciences & Aviation Technology, Kahire, Egypt, 29 - 31 May 2007, vol.1, pp.1-12
- XL. **PI-type fuzzy logic control of a dual arm robot**
Hacioglu Y., Arslan Y. Z. , Akan A., Yagiz N.
9th WSEAS International Conference on Automatic Control, Modeling and Simulation, İstanbul, Turkey, 27 - 29 May 2007, pp.42-43
- XLI. **Robust control of a prosthetic hand finger**
YAGIZ N., HACIOĞLU Y., ARSLAN Y. Z.
5th European Symposium on Biomedical Engineering, Greece, pp.1-4
- XLII. **Shifted Sliding Modes Control of Active Suspensions**
SAKMAN L. E. , BODUR F. N. , YAĞIZ N.
5th International Symposium on Intelligent Manufacturing Systems, Sakarya, Turkey, 29 - 31 May 2006, pp.90-92
- XLIII. **Control Methods Applied on Structural Systems**
GUCLU R., YAĞIZ N.
The 5th International Symposium on Intelligent Manufacturing Systems, Sakarya, Turkey, 10 - 12 May 2006, vol.1,

pp.1

- XLIV. **LQR and Sliding Mode Controller Design for a Multi-Degree-of-Freedom Structure with Active Mass Damper**
GUCLU R., YAĞIZ N.
The 5th International Symposium on Intelligent Manufacturing Systems, Sakarya, Turkey, 10 - 12 May 2006, vol.1, pp.2-5
- XLV. **Use of Sliding Mode Controlled Magneto-rheological Dampers on Vehicle Suspensions**
BİLGİÇ B., SAKMAN L. E. , YAĞIZ N.
• Proceedings of 5th International Symposium on Intelligent Manufacturing Systems, Turkey, pp.1121-1131
- XLVI. **Tek serbestlik dereceli bir titreşim sisteminin model parametrelerinin deneysel olarak belirlenmesi**
TAŞKIN Y., YAĞIZ N.
II. Mühendislik Bilimleri Genç Araştırmacılar Kongresi, İstanbul, Turkey
- XLVII. **Taşıt Titreşimlerinin Süspansiyon Çalışma Aralığı Kaybı Olmadan Bulanık Mantık ile Kontrolü**
YAĞIZ N., SAKMAN L. E.
UMTS 2005, 12. Ulusal Makina Teorisi Sempozyumu, Kayseri, Turkey, 9 - 11 June 2005, vol.1, pp.1
- XLVIII. **Fuzzy Logic Control of Active Suspensions Without Suspension Gap Degeneration**
BODUR F. N. , SAKMAN L. E. , YAĞIZ N.
4th International Symposium on Intelligent Manufacturing Systems, Sakarya, Turkey, 6 August - 08 September 2004, pp.100-103
- XLIX. **Deprem Etkisindeki Binanın Kayan Kipli Kontrolü**
YAĞIZ N., ERTAL C.
11. ULUSAL MAKİNA TEORİSİ SEMPOZYUMU(UMTS 2003), Ankara, Turkey, 4 - 06 September 2003, vol.11, pp.585-586
- L. **Analysis of a Planar Two-Link Robot on a Square Trajectory**
Güler M., Haklıdır M., YAĞIZ N.
MBGAK'2003, İstanbul, Turkey, 17 - 20 February 2003, vol.1, pp.1
- LI. **Dört Akslı Bir Tren Modelinin Titreşiminin İncelenmesi**
Tabak M. S. , YAĞIZ N.
MBGAK '2003, İstanbul, Turkey, 17 - 20 February 2003, vol.1, pp.1
- LII. **Dört Yolculu Tam Taşıt Modelinin Modelleme ve Simulasyonu**
Gültekin A., İslam B., YAĞIZ N.
MBGAK'2003, İstanbul, Turkey, 17 - 20 February 2003, vol.1, pp.1
- LIII. **Active Control of Viaduct Road Vibrations using Sliding Modes**
Yüksek İ., YAĞIZ N., GUCLU R., Kikushima Y.
The 6th International Conference on Motion and Vibration Control, Saitama, Jamaica, 19 - 23 August 2002, vol.6, pp.100-104
- LIV. **Sliding Mode Control of a Full Vehicle with Non-Linearity**
YAĞIZ N., Yüksek İ.
The 6th International Conference on Motion and Vibration Control, Saitama, Japan, 19 - 16 August 2002, vol.6, pp.861-866
- LV. **Modal Analysis of Viaduct Road Vibrations**
Yüksek K., Yüksek İ., YAĞIZ N., Kikushima Y.
The 6th International Conference on Motion and Vibration Control, Saitama, Japan, 19 - 23 August 2002, vol.6, pp.921-926
- LVI. **Sliding Mode and PID Control of Active a Structural System**
YAĞIZ N., YÜKSEK İ., GUCLU R., ERTAL C.
6th Biennial Conference on Engineering Systems Design and Analysis, İstanbul, Turkey, 8 - 11 July 2002, vol.1, pp.1
- LVII. **Aktif Süspansiyonlu Tam Taşıt Modelinin Kayan Kipli Kontrolü**
YAĞIZ N., Sağdıç T., ERTAL C.
OTEKON 2002, Bursa, Turkey, 24 - 26 June 2002, vol.1, pp.1
- LVIII. **Bulanık Mantık ile Taşıt Süspansiyon Sistemlerinin Aktif Kontrolü**

- YAĞIZ N., GUCLU R., ERDEM S. S.
OTEKON 2002, Bursa, Turkey, 24 - 26 June 2002, vol.1, pp.1
- LIX. **Sliding Mode Control of Active Suspensions without Suspension Gap Degeneration**
YAĞIZ N., Yüksek İ., GUCLU R.
International Conference on Mechatronic Design and Modeling, Konya, Turkey, 13 - 14 September 2001, vol.1, pp.1
- LX. **Taşıt Süspansiyon Sistemlerinin Bulanık Mantıklı Kontrolü**
YAĞIZ N., GUCLU R., YÜKSEK İ.
10. Ulusal Makina Teorisi Sempozyumu (UMTS 2001), Konya, Turkey, 12 - 14 September 2001, vol.1, pp.1
- LXI. **Aktif Ayarlı Kütle Sönümleyicili Bir Binanın Kayan Kipli Kontrolü**
GUCLU R., YAĞIZ N., YÜKSEK İ.
10. Ulusal Makina Teorisi Sempozyumu, Konya, Turkey, 12 - 14 September 2001, vol.1, pp.1
- LXII. **Vibration Control of a Two Degrees Freedom Flexible Robot Arm by Sliding Mode Control Theory**
Kepçeler T., Yüksek İ., YAĞIZ N., Kaya F.
32nd International Symposium on Robotics, Seoul, South Korea, 19 - 21 April 2001, vol.1, pp.1
- LXIII. **Alternative Approaches in Sliding Mode Control Theory**
YAĞIZ N.
2nd International Symposium on Mechanical Vibrations, Islamabad, Pakistan, 25 - 28 September 2000, vol.35, pp.180-185
- LXIV. **Sliding Mode Control of Active Suspensions a Non-Linear Full Vehicle Model**
YÜKSEK İ., YAĞIZ N., Kaya F.
2nd International Symposium on Mechanical Vibrations, Islamabad, Pakistan, 25 - 28 September 2000, vol.1, pp.1
- LXV. **Sliding Mode Control of a Flexible Single-Arm Robot**
YAĞIZ N., Kepçeler T., Yüksek İ., GUCLU R.
2nd International Symposium on Mechanical Vibrations, Islamabad, Pakistan, 25 - 28 September 2000, vol.35, pp.63-69
- LXVI. **Sliding Mode Control of a Multi-Degree-of-Freedom Structural System**
YAĞIZ N., Yüksek İ., GUCLU R.
2nd International Symposium on Mechanical Vibrations, Islamabad, Pakistan, 25 - 28 September 2000, vol.35, pp.152-159
- LXVII. **Active Controller Design of Vehicle Suspension Systems**
YÜKSEK İ., YAĞIZ N., Kaya F.
5th Engineering Systems Design and Analysis Conference of ASME, Montreux, Switzerland, 10 - 13 July 2000, vol.1, pp.102-110
- LXVIII. **Sliding Mode Control of a Planar Flexible Single Arm Robot**
YAĞIZ N., YÜKSEK İ., Kepçeler T., Kaya F.
5th Engineering Systems Design and Analysis Conference of ASME, Montreux, Switzerland, 10 - 13 July 2000, vol.1, pp.1
- LXIX. **Vibration Control of Vehicle Systems by Means of Active Controllers**
YÜKSEK İ., YAĞIZ N., Kaya F.
Proceedings of ETCE/OMAE2000 Joint Conference, New Orleans, United States Of America, 14 - 17 February 2000, vol.1, pp.971-976
- LXX. **Bond Graph Modelling and Simulation of the Effects of Dry Friction on Vehicle Dynamics**
YAĞIZ N., GÜVEN H. R.
Second International Conference, Graphs and Mechanics, Gliwice, Poland, 10 - 12 October 1999, pp.1
- LXXI. **Bond Graph Analysis and Sliding Modes Control of a Planer Two-arm Robot**
YAĞIZ N., GÜVEN H. R.
Second International Conference, Graphs and Mechanics, Gliwice, Poland, 10 - 12 October 1999, pp.1
- LXXII. **Simulation of a Binary Distillation Column**
KIRBAŞLAR Ş. İ., YAĞIZ N., SEVGİLİ L. M.
Proceedings of 2nd International Symposium on Intelligent Manufacturing Systems, IMS'98, Turkey, pp.973-982
- LXXIII. **Otomotiv Süspansiyon Sistemlerinin Kayan Kipli Kontrolü**

YAĞIZ N.

8. Ulusal Makina Teorisi Sempozyumu, Elazığ, Turkey, 17 - 19 September 1997, vol.1, pp.1

LXXIV. **Bond Graf Metodu ile Aktif Süspansiyona Sahip Bir Taşıtın Modellenmesi ve Simulasyonu**
ERDEM S. S. , YAĞIZ N.

Makina Tasarım Teorisi ve Modern İmalat Yöntemleri Konferansı, Ankara, Turkey, 15 - 16 September 1997, vol.1, pp.1

LXXV. **Sliding Modes Control of Active Suspensions**

YAĞIZ N., Özbülür V., İnanç N., Derdiyok A.

12th IEEE International Symposium on Intelligent Control, İstanbul, Turkey, 17 - 19 June 1997, vol.1, pp.1

LXXVI. **Analysis and Simulation of a Linear Induction Machine Driven Rail Train**

Derdiyok A., YAĞIZ N., İnanç N., Özbülür V.

ESM'97 European Simulation Multi Conference, İstanbul, Turkey, 10 - 12 June 1997, vol.1, pp.1

LXXVII. **Sliding Modes Control of Vehicle Suspension Systems**

YAĞIZ N., Özbülür V., Derdiyok A., İnanç N.

ESM'97 European Simulation Multi Conference, İstanbul, Turkey, 10 - 12 June 1997, vol.1, pp.1

LXXVIII. **Modeling and Simulation of a Vehicle Having Dry Friction on Suspensions Using Bond Graph Method**

YAĞIZ N., Özbülür V., Derdiyok A., İnanç N.

ESM'97 European Simulation Multi Conference, Ankara, Turkey, 10 - 12 June 1997, vol.1, pp.1

LXXIX. **Modeling and Simulation of An Electrically Driven Transport Vehicle by Using Bond Graph Method**

ÜNDİL S. H. , YAĞIZ N.

ESM 97, 11 th European Simulation Multiconference, İstanbul, Turkey, 1 - 04 June 1997, pp.3-6

LXXX. **Design of the Linear Induction Machine to Apply in Missile Flinging System**

Derdiyok A., İnanç N., Özbülür V., Yağız N., VAROL E. S.

Proc. 11th European Simulation Multiconference, ESM'97, İstanbul, Turkey, 1 - 04 June 1997, pp.765-768

LXXXI. **Simulation of a perforated plate distillation column**

KIRBAŞLAR Ş. İ. , YAĞIZ N.

11th European Simulation Multiconference , ESM'97, Turkey

LXXXII. **Analysis and Sliding Mode Control of a Planer Two Arm Robot by Using Bond Graph Method**

Özbülür V., YAĞIZ N.

7th International Machine Design and Production Conference, Ankara, Turkey, 24 - 27 September 1996, vol.1, pp.1

LXXXIII. **An Alternative Approach in the Analysis of Mechanical**

YAĞIZ N., Özbülür V.

7th International Machine Design and Production Conference, Ankara, Turkey, 18 - 20 September 1996, vol.1, pp.1

LXXXIV. **Effect of Dry Friction in Vehicle Suspension Systems on Ride Comfort**

YAĞIZ N.

The Second Scientific-Technical Seminar on Gas Turbine Engines, Ankara, Turkey, 10 - 12 September 1996, vol.1, pp.1

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KIRBAŞLAR Ş. İ. , YAĞIZ N., DRAMUR M. U.

UKMK-2, İkinci Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, pp.692-697

LXXXVI. **Taşıt Güç Aktarma Organlarının Bond Graf Metodu ile Modellenmesi ve Simulasyon**

YAĞIZ N., Özbülür V.

ZİS'96 Zeki İmalat Sistemleri Sempozyumu,, Sakarya, Turkey, 30 - 31 May 1996, no.1, pp.1

LXXXVII. **Bir destilasyon kolonunun modellenmesi ve simülasyonu**

KIRBAŞLAR Ş. İ. , YAĞIZ N., DRAMUR M. U.

" Birinci Ulusal Zeki İmalat Sistemleri Sempozyumu, Sakarya, Turkey, pp.328-335

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Otomatik Kontrol Ulusal Toplantısı, İstanbul, Turkey, 28 - 29 March 1996, pp.149-156

LXXXIX. **Anahtarlama Relüktans Motorunun Kayan Kipli Denetimle Hız Kontrolü**

Özbülür V., YAĞIZ N., Bilgiç P. D. O.

- TOK'96 Otomatik Kontrol Ulusal Toplantısı, İstanbul, Turkey, 28 - 29 March 1996, no.1, pp.1
- XC. **İki Kollu Düzlemsel Bir Robotun Bond Graf Metodu Kullanılarak Analizi**
YAĞIZ N., Özbulur V.
TOK'96 Otomatik Kontrol Ulusal Toplantısı, İstanbul, Turkey, 28 - 29 March 1996, no.1, pp.1
- XCI. **Bond Graf Metodu ile Bir Sarkacın Modelleme ve Simulasyonu**
YAĞIZ N.
Mühendislikte 20. Yıl Sempozyumu, Zonguldak, Turkey, 24 - 26 October 1995, no.1, pp.1
- XCII. **Bir Elektromekanik Sistemin Kayan Kipli Denetimle Konum Kontrolü**
YAĞIZ N., Özbulur V.
7. Ulusal Makina Teorisi Sempozyumu, İstanbul, Turkey, 20 - 22 September 1995, no.1, pp.1
- XCIII. **Bir Elektrikli Ulaşım Taşıtının Bond Graf Metodu ile Modelleme ve Simülasyonu**
ÜNDİL S. H. , YAĞIZ N.
7. Ulusal Makina Teorisi Sempozyumu, İstanbul, Turkey, 20 - 22 September 1995, pp.292-301
- XCIV. **Bond Graf Metodu ile Taşıt Süspansiyon Sisteminin Modelleme ve Simulasyonu**
YAĞIZ N., Arslan F.
7. Ulusal Makina Teorisi Sempozyumu, İstanbul, Turkey, 20 - 22 September 1995, no.1, pp.1
- XCV. **Bond Graf Metodu ile Bir Hidrolik Servomotorun Modelleme ve Simulasyonu**
YAĞIZ N., Güven P. D. H. R.
IX. Ulusal Mekanik Kongresi, Nevşehir, Turkey, 18 - 20 September 1995, no.1, pp.1
- XCVI. **Bond Graf Metodu ile Uçak Durdurma Mekanizmasının Modelleme ve Simülasyonu**
Aslan F., GÜVEN H. R. , YAĞIZ N.
Elektrik Mühendisliği 5. Ulusal Kongresi, Trabzon, Turkey, 13 - 18 September 1993, pp.1
- XCVII. **Simulation of the Effects of Dry Friction on Suspension Dynamics and Vehicle Ride**
Ünlüsoy P. D. Y. S. , YAĞIZ N.
Inter. AMSE Conference, Sorrento, Italy, 29 September - 01 October 1986, vol.1, pp.1

Supported Projects

HACIOĞLU Y., SEZGİN A., YAĞIZ N., Project Supported by Higher Education Institutions, Distributed Backstepping Approach for the Control of HalfCar Active Suspensions with Input Delay, 2017 - 2018

HACIOĞLU Y., YAĞIZ N., ÖZER H. Ö. , Project Supported by Higher Education Institutions, High Order Sliding Modes for Vehicle Suspensions via Optimized Super Twisting Algorithm, 2016 - 2016

HACIOĞLU Y., YAĞIZ N., Project Supported by Higher Education Institutions, İki serbestlik dereceli hava aracının kayan kipli kontrolü, 2014 - 2016

YAĞIZ N., Project Supported by Higher Education Institutions, Improving Ride Comfort of a Bus Using Fuzzy Logic Controlled Suspension, 2013 - 2014

YAĞIZ N., Project Supported by Higher Education Institutions, İki Serbestlik Dereceli Çeyrek Taşıt Modelinin Titreşim Analizi, 2010 - 2013

YAĞIZ N., Project Supported by Higher Education Institutions, Fuzzy logic control for active bus suspension system, 2012 - 2012

YAĞIZ N., Project Supported by Higher Education Institutions, ANALYSIS OF PASSENGER RIDE COMFORT, 2012 - 2012

YAĞIZ N., Project Supported by Higher Education Institutions, Reducing Vibration Effects on the Two Storey Building Model Using Dynamic Absorber, 2011 - 2012

YAĞIZ N., Project Supported by Higher Education Institutions, VI Congreso Cubano de Ingenieria Mecanica y Metalurgica (CCIM 2010), 2010 - 2010

YAĞIZ N., Project Supported by Higher Education Institutions, Bulanık kayan kip kontrollü çift kollu robot ile yük transferi, 2008 - 2010

YAĞIZ N., Project Supported by Higher Education Institutions, Sliding Mode Control of a Vehicle with Non-linearities, 2008 - 2008

Scientific Refereeing

TUBITAK Project, April 2011

Scientific Consultations

KOSGEB Bünyesinde Endüstriyel Danışmanlıklar, Scientific Consultancy, İstanbul Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Turkey, 2013 - Continues

İstanbul Gümrükleri Yaş Tespiti, Scientific Consultancy, İstanbul Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Turkey, 2009 - Continues

Citations

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