Prof. NACİ ZAFER

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Education Information

Doctorate, Iowa State University of Science and Technology, Mühendslik Fakültesi, Makine Mühendisliği Bölümü, United States Of America 1993 - 2000
Postgraduate, Iowa State University of Science and Technology, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, United States Of America 1992 - 1993
Undergraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1986 - 1990

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Design and Implementation of Haptic Interactions, Iowa State University of Science and Technology, 2000

Research Areas

Mechanical Engineering, Fluid Mechanics, Fluid Machinery, Solar energy, Wind power, Machine Theory and Dynamics, Machine Dynamics, System Dynamics and Control, Mechanisms, Vehicle Systems Dynamics, Robotics, Mechatronics, Acoustics and Noise Control, Modeling and Simulation of Dynamic Systems, Mechanical Vibrations, Mechanical, Solid Mechanics, Finite Element Methods, Mechanical Testing, Mathematics, Physics, Engineering and Technology

Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, 2016 - Continues
Associate Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, 2009 - 2016
Assistant Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, 2001 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Vibration Analysis and Optimization of a Tracked Armored Vehicle**
ZAFER N., Aybar U.
Journal of Vibration Engineering and Technologies, vol.11, no.7, pp.3177-3184, 2023 (SCI-Expanded)

II. **Frictional Compliant Haptic Contact and Deformation of Soft Objects**
ZAFER N., YILMAZ S.
INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS, vol.13, 2016 (SCI-Expanded)

III. **Nonlinear viscoelastic contact and deformation of freeform virtual surfaces**
Zafer N., Yılmaz S.
ADVANCED ROBOTICS, vol.30, pp.246-257, 2016 (SCI-Expanded)

IV. **Haptic exploration of highly curved compliant surfaces**
ZAFER N., YILMAZ S.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.229, no.10, pp.949-956, 2015 (SCI-Expanded)

V. **Exact region of stability for a linear orthogonal cutting model**
ZAFER N.
JOURNAL OF SOUND AND VIBRATION, vol.318, pp.353-363, 2008 (SCI-Expanded)

VI. **Stability of gas pressure regulators**
ZAFER N., Luecke G. R.
APPLIED MATHEMATICAL MODELLING, vol.32, no.1, pp.61-82, 2008 (SCI-Expanded)

VII. **A geometric constraint-based approach to force and motion coupling between real and virtual mechanisms**
ZAFER N., Luecke G. R.
ADVANCED ROBOTICS, vol.21, no.12, pp.1393-1410, 2007 (SCI-Expanded)

VIII. **Constraint-based haptic rendering of a parametric surface**
ZAFER N.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.221, pp.507-517, 2007 (SCI-Expanded)

IX. **Discussion: "Analysis of a system of linear delay differential equations" (Asl, F. M., and Ulsoy, A. G. 2003, ASME J. Dyn. Syst., Meas., Control, 125, pp. 215-223)**
ZAFER N.
JOURNAL OF DYNAMIC SYSTEMS MEASUREMENT AND CONTROL-TRANSACTIONS OF THE ASME, vol.129, no.1, pp.121-122, 2007 (SCI-Expanded)

Articles Published in Other Journals

I. **Seramik Malzemelerde Piroplastik Deformasyonların Deneysel Analizi ve Sonlu-Elemanlar Yöntemiyle Doğrulanması**
Ürkmez A., Manav S., ZAFER N.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.23, 2021 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Haptik Cihazların Kinematik Yapılarına Göre Değerlendirilmesi**
YILMAZ S., ZAFER N.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC 2019), Kapadokya, Nevşehir, Turkey, 21 - 23 June 2019, pp.930-935

II. **Tek Kolonlu AS/RS Sistemlerinde Titreşimin Bastırılması**

Özenbaş Yılmaz Ö., ZAFER N.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Nevşehir, Turkey, 21 - 23 June 2019, pp.919-923

III. **Sanal Cisimlerin Sürtünmeli Temas Altında Haptik Deformasyonu**
ZAFER N., YILMAZ S.
Otomatik Kontrol Ulusal Toplantısı, Denizli, Turkey, 10 - 12 September 2015, pp.879-883

IV. **Parmak Hareketlerini Takip Eden Mekatronik Bir Sistem**
ZAFER N., YILMAZ S.
Otomatik Kontrol Ulusal Toplantısı, Denizli, Turkey, 10 - 12 September 2015, pp.343-347

V. **Delayed feedback control in bilateral teleoperation**
ZAFER N.
8th Biennial ASME Conference on Engineering Systems Design and Analysis, Turin, Italy, 4 - 07 July 2006, pp.307-311

VI. **Frequency Optimization of a Vehicle Hood**
KUŞHAN M. C., ZAFER N.
The First Cappadocia Mechanical Engineering Symposium, Niğde, Turkey, 14 - 16 July 2004

VII. **Chatter Suppression in Turning**
ZAFER N., TÜRKEŞ E.
1st Cappadocia Int. Mech. Eng. Symposium (CMES-1), Nevşehir, Turkey, 14 - 16 July 2004, vol.2, pp.803-808

VIII. **A Robotic Exoskeleton Tracking Human Hand Motion**
KASAP M., ZAFER N., YILMAZ S.
1st Cappadocia International Mechanical Engineering Symposium, Cappadocia, Turkey, 14 - 16 July 2004, vol.2, pp.764-766

IX. **A New Algorithm, in Collision Detection and Applications to Robotics**
ZAFER N., Serdar Murat D.
1st Cappadocia Int. Mech. Eng. Symposium (CMES-1), Nevşehir, Turkey, 14 - 16 July 2004, vol.2, pp.845-848

X. **A Robotic Exoskeleton Tracking Human Hand Motions**
Kasap M., ZAFER N., YILMAZ S.
1st Cappadocia Int. Mech. Eng. Symposium (CMES-1), Nevşehir, Turkey, 14 - 16 July 2004, vol.2, pp.764-766

XI. **Uçak Yapı Malzemeleri**
KUŞHAN M. C., ZAFER N.
I. UlusalMetalurji ve Malzeme Gunleri, Eskişehir, Turkey, 27 - 28 May 2004

XII. **Bakım Mühendisliği ve Yeni Teknikler**
ZAFER N., TÜRKEŞ E., Kasap M.
TMMOB Bakım Teknolojileri Kongre ve Sergisi, Denizli, Turkey, 16 - 19 October 2003, pp.325-330

XIII. **Takım tezgahlarında dinamik dengeleme**
TÜRKEŞ E., ZAFER N., KÖSE R.
3. Uluslararası İleri Teknolojiler Sempozyumu, Ankara, Turkey, 18 - 20 August 2003, pp.278-290

XIV. **Konvansiyonel takım tezgahlarında tasarım**
TÜRKEŞ E., KÖSE R., ZAFER N.
3. Uluslararası İleri Teknolojiler Sempozyumu, Ankara, Turkey, 18 - 20 August 2003, pp.154-167

XV. **Impedance Fields for Trajectory Enhancement in the Intelligent Assist Device**
Luecke G. R., KL T., ZAFER N.
IEEE Int. Conference on Robotics and Automation (ICRA 2000), San-Francisco, Costa Rica, 24 - 28 April 2000, vol.3, pp.2783-2788

XVI. **Constraint coupling of force and motion between real and virtual mechanisms**
Luecke G. R., ZAFER N.
SPIE - Telemanipulator and Telepresence Technologies VII, Boston, MA, United States Of America, 02 March 2001, vol.4195, pp.331-339

XVII. **Robotic Impedance Constraints for Haptic Feedback**
Luecke G. R., ZAFER N.

ISRA 2000, Monterrey, Mexico, 10 - 12 November 2000

XVIII. **Collision avoidance and task planning using impedance force fields**
Luecke G. R., KL T., ZAFER N.
in proceedings of SPIE - Telemanipulator and Telepresence Technologies VI, Boston, MA, United States Of America, 08 November 1999, vol.3840, pp.162-169

XIX. **Adaptive Control for Heavy Earthmoving Equipment**
Luecke G. R., ZAFER N., Edwards J. C.
SAE Internatioanal Earthmoving Industry Conference Exposition, Session: Mechatronics Applied To Mobile Machinery, Peoria, United States Of America, 8 - 09 April 1998

XX. **Haptic feedback for virtual assembly**
Luecke G. R., ZAFER N.
SPIE - Telemanipulator and Telepresence Technologies V, Boston, MA, United States Of America, 18 December 1997, vol.3524, pp.115-122

Metrics

Publication: 30
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