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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-3728-2019

ScopusID: 7006855167

Yoksis Researcher ID: 293513

Research Areas

Analysis and Synthesis Methods, Simulation, Modelling and Identification, Control of Biological Systems, Distributed Control Systems, Controllers, Nonlinear Systems, Status Observers and Estimation, Measurement and Control of Nonelectric Variables, Measurement and Control of Electric and Magnetic Variables, Actuating and Final Control Devices, General System Theory, Checker, Communication Control Systems, Stability, Discrete Time Systems and Computer Control, Control Systems and Instrumentation, Mathematical Techniques, Optimal Control, System Diagnostics, Adaptive Systems, Time Varying Systems, Mechatronic Systems, Route and Motion Planning, Signal Processing for Communication, Signal Processing Theory and Methods, Simulation and Modelling, Distributed Systems, Computer Graphics, Automatic Programming, Programming Languages, Soft Computing, Power System Analysis, Renewable energy, System Dynamics, Technology and Innovation Management, Scenario Analysis, Fluid Mechanics, Pressure Vessels and Piping, Conventional Energy Systems and Their Technology, Fluid Machinery, Renewable Energy Systems, Energy storage technologies, Advanced Energy Technologies, Computer Aided Design and Manufacturing, Machine Dynamics, System Dynamics and Control, Mechanisms, Vehicle Systems Dynamics, Robotics, Mechatronics, Modeling and Simulation of Dynamic Systems, Mechanical Vibrations, Solid Mechanics, Mechanical Testing, Heat and Mass Transfer, Heating, Refrigerating and Air Conditioning, Internal Combustion Engines, Thermal Systems, Thermal machines, Vehicle Dynamics and Modeling, Mechanisms (Leaving, opening, turning, etc.), Test techniques, Flight Control Systems, Electrical Power Systems, Air Conditioning Systems, Avionics, Mechanism and Hydraulic / Fluid Systems, Ground Tests - Structural Tests (Deformation, Stress, Vibration, Acoustics, etc.)

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Applied Sciences, Aviation Electronics, 2019 - Continues

Assistant Professor, Istanbul Technical University, Uçak Ve Uzay Bilimleri, Uzay Mühendisliği, 1993 - 1997

Research Assistant, Istanbul Technical University, Makina, Makina Mühendisliği, 1986 - 1987

Academic and Administrative Experience

Deputy Head of Department, Istanbul Technical University, Uçak Ve Uzay Bilimleri, Uzay Mühendisliği, 1996 - 1997

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A crank mechanism with variable radius and phase**
ORAL H. A.
Mechanism And Machine Theory, vol.32, pp.1-7, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. **An Effective Modeling Architecture for MIL, HIL and VDIL Testing**
ORAL H. A.
SAE International Journal of Passenger Cars - Electronic and Electrical Systems, vol.6, pp.34-45, 2013 (Scopus)
- II. **Evaluating Active Chassis**
ORAL H. A.
Vehicle Dynamics International, no.2, pp.56-57, 2003 (Non Peer-Reviewed Journal)
- III. **Dynamic Modeling and Simulation of a Vibration Table Used in Road Simulators**
ORAL H. A.
JOURNAL OF PASSENGER CAR: MECHANICAL SYSTEMS JOURNAL, vol.111, pp.1641-1648, 2002 (Peer-Reviewed Journal)
- IV. **A Comparative Study of Motion Devices for Robot Design**
ORAL H. A.
Journal of Engineering and Architecture, Suleyman Demirel University Faculty of Engineering, pp.68-74, 1995 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Traction Control System Using a Torque Sensor for Adaptive Engine Throttle Control**
ORAL H. A.
SAE 2010 World Congress Exhibition, DETROIT, United States Of America, 5 - 08 April 2010
- II. **An Innovative Real Time Modeling, Simulation and Distributed Control Application**
ORAL H. A., Kevin W., Wen Y.
SAE 2004 World Congress Exhibition, Detroit, United States Of America, 5 - 08 April 2004
- III. **Measuring Active Chassis System Performance in an HIL Environment**
ORAL H. A., Wen Y., Kemp K.
SAE 2004 Automotive Dynamics, Stability Controls Conference and Exhibition, 5 - 08 April 2004
- IV. **Active Chassis Control in a Repeatable Environment**
ORAL H. A.
TestingExpo2003, NOVI, United States Of America, 28 - 30 October 2003
- V. **Vehicle Rollover Propensity Measurement Using a Novel Approach**
ORAL H. A., Kemp K., Hoenke M., Wen Y., Barber J., Palmer R.
SAE 2003 World Congress Exhibition, Detroit, United States Of America, 07 April 2003
- VI. **Track Simulation and Vehicle Characterization with 7 Post Testing**
Kelly J., Kowalczyk H., ORAL H. A.
Motorsports Engineering Conference Exhibition, Indianapolis, United States Of America, 2 - 05 December 2002
- VII. **Test and Motion Simulation Machine Development using Hardware in Loop**
ORAL H. A.
testingexpo2002, Stuttgart, Germany, 14 - 16 May 2002

- VIII. **A Tool for Control Algorithm Development of an Active Vehicle Suspension Using Hardware-in-The-Loop**
 ORAL H. A.
 SAE 2002 Automotive Dynamics Stability Conference and Exhibition, Detroit, United States Of America, 8 - 11 April 2002
- IX. **Dynamic modeling and simulation of a vibration table used in road simulators**
 Oral H. A.
 SAE 2002 World Congress, Detroit, MI, United States Of America, 4 - 07 March 2002
- X. **Prototype Development at System Level Using Hardware in the Loop**
 ORAL H. A.
 daratechIDPS2001: Intelligent Digital Prototyping Strategies Conference, NOVI, 29 - 30 October 2001
- XI. **Kinematics of parallel platforms: pantograph mechanism based transmission**
 Oral H. A.
 Proceedings of the 1996 3rd Biennial Joint Conference on Engineering Systems Design and Analysis, ESDA. Part 7 (of 9), Montpellier, France, 1 - 04 July 1996, vol.80, pp.9-16
- XII. **ZIRHLI VE PALETLİ BİR PİYADE ARACININ YÖRÜNGE VE HIZININ DİNAMİK KONTROLÜ**
 ORAL H. A.
 Zırhlı Araçlar Sempozyumu, İstanbul, Turkey, 28 - 29 May 1996, pp.193-202
- XIII. **Recent Trends in Aerospace Research and Development**
 ORAL H. A., aygun c., yucesan g.
 International Aviation Conference, Jeddah, Saudi Arabia, 21 - 22 November 1995
- XIV. **Elastic Energy Storage in a Leg Mechanism for High Speed Legged Locomotion**
 ORAL H. A.
 ASME Structural Dynamics and Vibration, Houston, United States Of America, 29 January - 01 February 1995, vol.70, pp.123-127
- XV. **Kinematic analysis of a wing mechanism**
 Oral H. A.
 Proceedings of the Energy-Sources Technology Conference and Exhibition, Houston, TX, USA, 29 January - 01 February 1995, vol.70, pp.119-122
- XVI. **A New Leg Mechanism for High Speed Legged Locomotion**
 ORAL H. A.
 ASME Engineering Systems Design and Analysis Conference, Londrina, Brazil, 4 - 07 July 1994, vol.8, pp.865-870
- XVII. **Legged Locomotion Review**
 ORAL H. A.
 ASME Engineering Systems Design and Analysis Conference, London, Canada, 4 - 07 July 1994, vol.8, pp.837-847
- XVIII. **New leg mechanism for high speed legged locomotion**
 Oral H. A.
 Proceedings of the 2nd Biennial European Joint Conference on Engineering Systems Design and Analysis. Part 1 (of 8), London, Canada, 4 - 07 July 1994, vol.64, pp.865-870

Patent

Oral H. A., Traction control system using torque sensor for adaptive engine throttle control, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: US8626417B2 , Standard Registration, 2014

Metrics

Publication: 23

Citation (Scopus): 17

H-Index (Scopus): 2

Congress and Symposium Activities

MATLAB EXPO, Invited Speaker, Ankara, Turkey, 2018