Asst. Prof. EMİR KUTLUAY

Personal Information

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International Researcher IDs
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Education Information

Doctorate, Technische Universitaet Darmstadt, Fachgebiet Fahrzeugtechnik (Fzd), Germany 2007 - 2012

Dissertations

Doctorate, Development and Demonstration of a Validation Methodology for Vehicle Lateral Dynamics Simulation Models, Technische Universitaet Darmstadt, Otomotiv Enstitüsü, 2012
Postgraduate, Identification of Inertia Tensor of Vehicles, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2007

Research Areas

Information Systems, Communication and Control Engineering, Control and System Engineering, Robotics and Mechatronics Systems, Computer Vision, Mechatronic Systems, Signal Processing, Image and Video Processing, Mechanical Engineering, Machine Theory and Dynamics, System Dynamics and Control, Vehicle Systems Dynamics, Modeling and Simulation of Dynamic Systems, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2014 - 2016
Research Assistant, Hacettepe University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2012 - 2014
Research Assistant, Technische Universitaet Darmstadt, Makina Mühendisliği, 2007 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A novel intelligent control method for domestic refrigerators based on user behavior**
Kapici E., Kutluay E., Izadi-zamanabadi R.
INTERNATIONAL JOURNAL OF REFRIGERATION, vol.136, pp.209-218, 2022 (SCI-Expanded)

II. **Steering optimization for multiaxle vehicles with multiaxle steering**
Yazici C. B., KUTLUAY E., ÜNLÜSOY Y. S.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.35, no.8, pp.3303-3311, 2021 (SCI-Expanded)

III. **Design and performance analysis of a novel coordinated intervention configuration for lane**

departure assistance system
KUTLUAY E., DÜZGÜN M., Doust M.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.3, pp.1632-1642, 2021 (SCI-Expanded)

IV. **Validation of vehicle dynamics simulation models - a review**
KUTLUAY E., Winner H.
VEHICLE SYSTEM DYNAMICS, vol.52, no.2, pp.186-200, 2014 (SCI-Expanded)

Articles Published in Other Journals

I. **Geometric path planning for parallel parking on double side parked narrow streets**
Hatipoğlu E., Assoy M. K., Kaya M., Ezim M., Oğuz M., KUTLUAY E.
Akıllı Ulaşım Sistemleri ve Uygulamaları Dergisi (Online), vol.6, no.2, pp.326-343, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Numerical Investigation of Dynamics of Crach Box Collision Geometry**
KUTLUAY E., YILDIRIM B., ÇETİNEL O.
OTEKON 2018, Bursa, Turkey, 7 - 08 May 2018, pp.37-44

Supported Projects

KUTLUAY E., Project Supported by Higher Education Institutions, Sürücü Destek Sistemleri Dersi Demonstrasyon Modeli Geliştirilmesi, 2016 - 2017
KUTLUAY E., BAŞLAMIŞLI S. Ç., TUBITAK Project, Şerit Koruma Asistanı Sisteminin Performansının Arttırılmasına Yönelik Koordineli Müdahale Yaklaşımının Tasarımı Ve Simülasyonu, 2014 - 2017
KUTLUAY E., Project Supported by Higher Education Institutions, Bir Şerit Koruma ve Takip Sistemi, 2015 - 2016
KUTLUAY E., Project Supported by Higher Education Institutions, Araç Üzerine Monte Edilebilir Kuşbakışı Kamera Sistemi, 2014 - 2016

Metrics

Publication: 6
Citation (WoS): 24
Citation (Scopus): 1
H-Index (WoS): 1
H-Index (Scopus): 1

Non Academic Experience

EDEL Mühendislik AŞ
Continental AG