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Advising Theses

- ÜNLÜSOY Y. S. , Modeling and application of artificial muscle actuators, Doctorate, F.Buğra(Student), 2019
- ÜNLÜSOY Y. S. , Optimization of ride comfort for vehicles equipped with passive and active hydro-pneumatic suspensions, Doctorate, F.SAĞLAM(Student), 2016
- ÜNLÜSOY Y. S. , Steering dynamics of tracked vehicles, Postgraduate, M.NURİ(Student), 2016
- ÜNLÜSOY Y. S. , Design and analysis of helical coil spring forms for independent suspensions of automobiles, Postgraduate, G.YAZAR(Student), 2015
- ÜNLÜSOY Y. S. , Modeling, simulation, and active control of tractor-semitrailer combinations, Postgraduate, S.ALAMDARİ(Student), 2015
- ÜNLÜSOY Y. S. , Modeling and active steering control of articulated vehicles with multi-axle semi-trailers, Postgraduate, M.UĞUR(Student), 2015
- ÜNLÜSOY Y. S. , Modeling and optimization of hybrid electric vehicles, Postgraduate, B.Şamil(Student), 2013
- ÜNLÜSOY Y. S. , Identification of low order vehicle handling models from multibody vehicle dynamics models, Postgraduate, F.SAĞLAM(Student), 2010
- ÜNLÜSOY Y. S. , Modeling and simulation of high speed railway vehicle dynamics, Postgraduate, T.YÜKSEL(Student), 2010
- ÜNLÜSOY Y. S. , Impact of damper failure on vehicle handling during critical driving situations, Postgraduate, M.Durukan(Student), 2009
- ÜNLÜSOY Y. S. , Development of a control strategy for road vehicles with semi-active suspensions using a full vehicle ride model, Postgraduate, Z.ERDOĞAN(Student), 2009
- ÜNLÜSOY Y. S. , MATHEMATICAL MODELING AND SIMULATION OF TRACKED VEHICLE DYNAMICS, Doctorate, K.ÇALIŞKAN(Student), 2009
- ÜNLÜSOY Y. S. , OPTIMIZATION OF SUSPENSION PARAMETERS TO IMPROVE IMPACT HARSHNESS OF ROAD VEHICLES, Postgraduate, M.AYDIN(Student), 2009
- ÜNLÜSOY Y. S. , Identification of handling models for road vehicles, Doctorate, K.Bilge(Student), 2008
- ÜNLÜSOY Y. S. , Design and simulation of an integrated active yaw control system for road vehicles, Postgraduate, G.TEKİN(Student), 2008
- ÜNLÜSOY Y. S. , Design and simulation of a traction control system for an integrated active safety system for road vehicles, Postgraduate, G.Oktay(Student), 2008
- ÜNLÜSOY Y. S. , Identification of inertia tensor of vehicles, Postgraduate, E.KUTLUAY(Student), 2007
- ÜNLÜSOY Y. S. , Design and simulation of an ABS for an integrated active safety system for road vehicles, Postgraduate, M.Şahin(Student), 2007
- ÜNLÜSOY Y. S. , Modeling of the dynamics of multi-axle steered vehicles, Postgraduate, K.Bayar(Student), 2006
- ÜNLÜSOY Y. S. , Mechanical fatigue and life estimation analysis of printed circuit board components, Postgraduate, C.Genç(Student), 2006
- ÜNLÜSOY Y. S. , Analysis of high frequency behavior of plate and beam structures by statistical energy analysis method, Doctorate, C.Yılmazel(Student), 2004
- ÜNLÜSOY Y. S. , Experimental determination of transfer functions for a car body-in-white, Postgraduate, S.Şentürk(Student), 2004
- ÜNLÜSOY Y. S. , Finite element analysis of cornering characteristics of rotating tires, Doctorate, M.AKİF(Student), 2003

ÜNLÜSOY Y. S. , Fuzzy logic control of four-wheel steering system, Postgraduate, E.Özatay(Student), 2003
ÜNLÜSOY Y. S. , Dynamic simulation and performance optimization of a car with continuously variable transmission, Postgraduate, S.Güvey(Student), 2003
ÜNLÜSOY Y. S. , Computer simulation of dynamic behavior of pneumatic tires, Doctorate, E.TÖNÜK(Student), 1998
ÜNLÜSOY Y. S. , ÇALIŞKAN M., An integrated FEM/BEM approach to the prediction of interior noise levels of vehicle body structures, Doctorate, Ş.Kopuz(Student), 1995

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

- I. **Steering optimization for multi-axle vehicles with multi-axle steering**
Yazıcı C. B. , KUTLUAY E., ÜNLÜSOY Y. S.
Journal of Mechanical Science and Technology, vol.35, no.8, pp.3303-3311, 2021 (Journal Indexed in SCI)
- II. **A new contact & slip model for tracked vehicle transient dynamics on hard ground**
Ozdemir M. N. , Kilic V., ÜNLÜSOY Y. S.
JOURNAL OF TERRAMECHANICS, vol.73, pp.3-23, 2017 (Journal Indexed in SCI)
- III. **Adaptive ride comfort and attitude control of vehicles equipped with active hydro-pneumatic suspension**
Saglam F., ÜNLÜSOY Y. S.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.71, pp.31-51, 2016 (Journal Indexed in SCI)
- IV. **Optimization of suspension parameters to improve impact harshness of road vehicles**
Aydin M., ÜNLÜSOY Y. S.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.60, pp.743-754, 2012 (Journal Indexed in SCI)
- V. **Design and simulation of an integrated active yaw control system for road vehicles**
Tekin G., ÜNLÜSOY Y. S.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.52, pp.5-19, 2010 (Journal Indexed in SCI)
- VI. **Design and simulation of an ABS for an integrated active safety system for road vehicles**
Sahin M., ÜNLÜSOY Y. S.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.52, pp.64-81, 2010 (Journal Indexed in SCI)
- VII. **Optimization of Speed Control Hump Profiles**
BAŞLAMIŞLI S. Ç. , ÜNLÜSOY Y. S.
JOURNAL OF TRANSPORTATION ENGINEERING, vol.135, no.5, pp.260-269, 2009 (Journal Indexed in SCI)
- VIII. **A fuzzy logic controlled Anti-lock Braking System (ABS) for improved braking performance and directional stability**
YAZICIOĞLU Y., ÜNLÜSOY Y. S.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.48, pp.299-315, 2008 (Journal Indexed in SCI)
- IX. **Identification of linear handling models for road vehicles**
ARIKAN K. B. , ÜNLÜSOY Y. S. , Korkmaz I., Celebi A. O.
VEHICLE SYSTEM DYNAMICS, vol.46, no.7, pp.621-645, 2008 (Journal Indexed in SCI)
- X. **Steering strategies for multi-axle vehicles**
Bayar K., ÜNLÜSOY Y. S.
INTERNATIONAL JOURNAL OF HEAVY VEHICLE SYSTEMS, vol.15, pp.208-236, 2008 (Journal Indexed in SCI)
- XI. **Prediction of automobile tire cornering force characteristics by finite element modeling and analysis**
Tonuk E., Unlusoy Y. S.
COMPUTERS & STRUCTURES, vol.79, no.13, pp.1219-1232, 2001 (Journal Indexed in SCI)
- XII. **Integrated FEM/BEM approach to the dynamic and acoustic analysis of plate structures**
Kopuz S., Unlusoy Y., Caliskan M.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.17, no.4, pp.269-277, 1996 (Journal Indexed in SCI)
- XIII. **NONLINEAR DYNAMIC-MODEL AND ITS SOLUTION FOR A HIGH-SPEED CAM MECHANISM WITH COULOMB-FRICTION**

- UNLUSOY Y., TUMER S.
JOURNAL OF SOUND AND VIBRATION, vol.169, no.3, pp.395-407, 1994 (Journal Indexed in SCI)
- XIV. **ANALYTICAL DYNAMIC-RESPONSE OF ELASTIC CAM-FOLLOWER SYSTEMS WITH DISTRIBUTED-PARAMETER RETURN SPRING**
UNLUSOY Y., TUMER S.
JOURNAL OF MECHANICAL DESIGN, vol.115, no.3, pp.612-620, 1993 (Journal Indexed in SCI)
- XV. **NONDIMENSIONAL ANALYSIS OF JUMP PHENOMENON IN FORCE-CLOSED CAM MECHANISMS**
TUMER S., UNLUSOY Y.
MECHANISM AND MACHINE THEORY, vol.26, no.4, pp.421-432, 1991 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **State Dependent Riccati Equation Control of an Active Hydro Pneumatic Suspension System**
SAĞLAM F., ÜNLÜSOY Y. S.
Journal of Automation and Control Research, vol.1, pp.1-10, 2014 (Refereed Journals of Other Institutions)
- II. **Product Based Material Testing for Hyperelastic Suspension Jounce Bumper Design with FEA**
ÇALIŞKAN K., KONUKSEVEN E. İ. , ÜNLÜSOY Y. S.
KEY ENGINEERING MATERIALS, vol.450, pp.119-123, 2011 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Birbirine Bağlı Hidro Pnömatik Süspansiyon Sistemlerinin Araç Performansına Etkisi**
SAĞLAM F., ÜNLÜSOY Y. S.
UMTS 2015 / TrISToMM Uluslararası Katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Turkey, 14 - 17 June 2015
- II. **Analysis and Design of Passive and Active Interconnected Hydro Pneumatic Suspension Systems in Roll Plane**
SAĞLAM F., ÜNLÜSOY Y. S.
ICENS 2015 International Conference on Engineering and Natural Sciences, 15 - 19 May 2015
- III. **Modeling and Simulation of High Speed Railway Vehicle Dynamics**
TUĞÇE Y., ÜNLÜSOY Y. S.
InternationalCongress on Advanced Railway Engineering, 2 - 04 March 2015
- IV. **Product Based Material Testing for Hyperelastic Suspension Jounce Bumper Design with FEA**
Caliskan K., KONUKSEVEN E. İ. , ÜNLÜSOY Y. S.
3rd International Conference on Advanced Design and Manufacture, Nottingham, United Kingdom, 8 - 10 September 2010, vol.450, pp.119-120
- V. **BOUNDARY-ELEMENT METHOD IN THE DEVELOPMENT OF VEHICLE BODY STRUCTURES FOR BETTER INTERIOR ACOUSTICS**
KOPUZ S., UNLUSOY Y., CALISKAN M.
8th International Conference on Boundary Element Technology (BETECH 93), VILAMOURA, Portugal, 9 - 11 November 1993, pp.57-66

Citations

Total Citations (WOS):166

h-index (WOS):8