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Eğitim Bilgileri

Doktora, Loughborough University, Mühendislik Fakültesi, Makina Ve İmalat Mühendisliği, İngiltere 2003 - 2008

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Türkiye 1996 - 2000

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Türkiye 1992 - 1996

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Makina Mühendisliği, Makina Teorisi ve Dinamiği, Dinamik Sistemlerin Modellenmesi ve Benzetimi, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, Hacettepe Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2009 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Car seat design to improve rear-impact protection**
HİMMETOĞLU S., Acar M., Bouazza-Marouf K., Taylor A. J.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING, cilt.225, ss.441-459, 2011 (SCI İndekslerine Giren Dergi)
- II. **A multi-body human model for rear-impact simulation**
HİMMETOĞLU S., Acar M., Bouazza-Marouf K., Taylor A.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING, cilt.223, ss.623-638, 2009 (SCI İndekslerine Giren Dergi)
- III. **Energy-Absorbing Car Seat Designs for Reducing Whiplash**
HİMMETOĞLU S., Acar M., Bouazza-Marouf K., Taylor A. J.
TRAFFIC INJURY PREVENTION, cilt.9, sa.6, ss.583-591, 2008 (SCI İndekslerine Giren Dergi)
- IV. **A multi-body head-and-neck model for simulation of rear impact in cars**
HİMMETOĞLU S., Acar M., Taylor A. J., Bouazza-Marouf K.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Validation of a simple multi-body head-and-neck model for efficient rear impact simulations**
HİMMETOĞLU S., Balci T., Aydogan M.
24th International Scientific Conference on Transport Means 2020, Kaunas, Litvanya, 30 Eylül - 02 Ekim 2020, ss.273-277
- II. **Neck protection in autonomous car crashes**
Yavuz S., HİMMETOĞLU S.
24th International Scientific Conference on Transport Means 2020, Kaunas, Litvanya, 30 Eylül - 02 Ekim 2020, ss.147-152
- III. **Vehicle structure related design criteria and restraint performance for vans in full-width frontal impacts**
HİMMETOĞLU S., Yildirim U., Ozturk T.
24th International Scientific Conference on Transport Means 2020, Kaunas, Litvanya, 30 Eylül - 02 Ekim 2020, ss.16-21
- IV. **Safety issues in fully autonomous cars: A Turkish perspective**
Himmetoğlu S., Kılıç L. O.
23rd International Scientific Conference on Transport Means 2019, Palanga, Litvanya, 2 - 04 Ekim 2019, ss.131-134
- V. **Design criteria for the safety of passenger cars in frontal impacts**
Himmetoğlu S., Ünal H., Sak Y. G.
23rd International Scientific Conference on Transport Means 2019, Palanga, Litvanya, 2 - 04 Ekim 2019, ss.1496-1503
- VI. **Derivation of stiffnesses for comparison of vehicle performance in frontal impacts**
HİMMETOĞLU S.
18th International Conference on Machine Design and Production - UMTIK 2018, Eskişehir, Türkiye, 3 - 06 Temmuz 2018, ss.61-79
- VII. **Derivation of crush force versus deformation behaviour of vehicles at different impact speeds**
HİMMETOĞLU S., YILMAZ K. B., YILDIRIM B., TEKİN a.
22nd International Scientific on Conference Transport Means 2018, Trakai, Litvanya, 3 - 05 Ekim 2018, ss.49-56
- VIII. **The effects of load cell wall design in the assessment of shape compatibility in vehicle collisions**
HİMMETOĞLU S.
22nd International Scientific on Conference Transport Means 2018, Trakai, Litvanya, 3 - 05 Ekim 2018, ss.84-91
- IX. **Taşıt çarpışmalarında Poisson hipotezinin yarı-analitik yöntemle doğrulanması**
HİMMETOĞLU S.
18. Ulusal Makina Teorisi Sempozyumu (UMTS 2017), Trabzon, Türkiye, 5 - 07 Temmuz 2017
- X. **Passive-seat design to reduce whiplash in rear impacts**
HİMMETOĞLU S.
3rd International Conference on Engineering and Natural Science (ICENS 2017), Budapest, Macaristan, 3 - 07 Mayıs 2017
- XI. **An adaptive car-seat to mitigate whiplash in rear impacts**
HİMMETOĞLU S.
21st International Scientific on Conference Transport Means 2017, Juodkrante, Litvanya, 20 - 22 Eylül 2017, ss.32-38
- XII. **An analysis of load incompatibility in central in-line collisions of vehicles using lumped-mass modelling**
HİMMETOĞLU S.
17th International Conference on Machine Design and Production (UMTIK 2016), Bursa, Türkiye, 12 - 15 Temmuz

2016

- XIII. **An evaluation of passive head-restraints with different stiffness and energy dissipation properties for whiplash mitigation**
HİMMETOĞLU S.
7th International Expert Symposium on Accident Research (ESAR 2016), Hannover, Almanya, 9 - 10 Haziran 2016
- XIV. **Rear impact whiplash test design by using a Maxwell-element based energy-absorber**
HİMMETOĞLU S.
2nd International Conference on Engineering and Natural Science (ICENS 2016), Sarajevo, Bosna-Hersek, 24 - 28 Mayıs 2016
- XV. **Crash-adaptive seat-and-head-restraint systems for rear-impact whiplash mitigation**
Himmetoğlu S., Acar M.
International Crashworthiness Conference (ICRASH 2010), Washington, Amerika Birleşik Devletleri, 22 - 24 Eylül 2010
- XVI. **The influence of crash pulse shape on seat-occupant response in rear impacts**
HİMMETOĞLU S.
4th International Expert Symposium on Accident Research (ESAR), Hannover, Almanya, 16 - 18 Eylül 2010
- XVII. **Design and manufacturing of a whiplash-mitigating car-seat demonstrator**
HİMMETOĞLU S., Acar M.
14th International Conference on Machine Design and Production (UMTIK 2010, Güzelyurt, Kıbrıs (Kktc), 29 Haziran - 02 Temmuz 2010
- XVIII. **WHIPLASH PROTECTION BY ENERGY ABSORBING CAR-SEAT CONCEPTS**
HİMMETOĞLU S., Acar M., Bouazza-Marouf K., Taylor A. J.
10th ASME Biennial Conference on Engineering Systems Design and Analysis, İstanbul, Türkiye, 12 - 24 Temmuz 2010, ss.311-320
- XIX. **Reactive seat design for optimum whiplash mitigation at different crash severities**
Himmetoğlu S., Acar M., Bouazza Marouf K., Taylor A. J.
International IRCOBI Conference 2009, York, İngiltere, 9 - 11 Eylül 2009
- XX. **Car seat design methodology for rear impact protection**
HİMMETOĞLU S., Acar M., Bouazza Marouf K., Taylor A. J.
13th International Conference on Machine Design and Production (UMTIK 2008), İstanbul, Türkiye, 3 - 05 Eylül 2008
- XXI. **Investigation of different strategies for car seat design to reduce whiplash injuries**
HİMMETOĞLU S., Acar M., Taylor A. J. , Bouazza Marouf K.
International Conference on Neck injuries in road traffic and prevention strategies, Munich, Almanya, 5 - 06 Kasım 2007
- XXII. **A multi-body head and neck model for low speed rear impact analysis**
HİMMETOĞLU S., Acar M., Taylor A. J. , Bouazza Marouf K.
IFTToMM 12th World Congress in Mechanism and Machine Science, Besançon, Fransa, 17 - 21 Haziran 2007
- XXIII. **Rear impact human body and car seat models for whiplash injury mitigation**
HİMMETOĞLU S., Acar M., Taylor A. J. , Bouazza Marouf K.
3rd Annual Injury Biomechanics Symposium - The Ohio State University, Columbus, Amerika Birleşik Devletleri, 21 - 22 Mayıs 2007
- XXIV. **Removing force indeterminacy in a Hooke joint mechanism by increasing and modifying its joints without causing singularities**
HİMMETOĞLU S., Özgören M. K.
IFTToMM 11th World Congress in Mechanism and Machine Science, Tianjin, Çin, 1 - 04 Nisan 2004
- XXV. **Force analysis of the Hooke joint**
HİMMETOĞLU S., Özgören M. K.
6th Biennial ASME Conference on Engineering Systems Design and Analysis (ESDA 2002), İstanbul, Türkiye, 8 - 11 Temmuz 2002
- XXVI. **Force analysis in manipulators having planar modules**

HİMMETOĞLU S., Özgören M. K.

9th International Conference on Machine Design and Production (UMTIK 2000, Ankara, Türkiye, 13 - 15 Eylül 2000

Desteklenen Projeler

HİMMETOĞLU S., Yükseköğretim Kurumları Destekli Proje, Boyun travmasını azaltmak için çeşitli sertlik ve enerji kaybı özelliklerine sahip pasif koltuk-başlıklarının değerlendirilmesi, 2016 - 2016

Atıflar

Toplam Atıf Sayısı (WOS):39

h-indeksi (WOS):4

Davetli Konuşmalar

Recent Developments in Vehicle Restraint System Design in the Era of Autonomous Driving, Konferans, Diğer Kurumlar, Litvanya, Eylül 2020