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Publons / Web Of Science ResearcherID: N-9273-2018

Yoksis Araştırmacı ID: 182844

Eğitim Bilgileri

Doktora, Loughborough University, Mühendislik Fakültesi, Makina Ve İmalat Mühendisliği, Birleşik Krallık 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

Yönetilen Tezler

Himmetoğlu S., ADAPTIVE CAR SEAT CONTROL FOR WHIPLASH MITIGATION, Doktora, A.GÜNEŞ(Öğrenci), 2022

Himmetoğlu S., A DUMMY HEAD AND NECK MODEL FOR BOTH FRONTAL AND REAR IMPACTS, Yüksek Lisans,

Y.DEMİRER(Öğrenci), 2022

Himmetoğlu S., AN INVESTIGATION OF COMPATIBILITY FOR THE PASSENGER CAR FLEET IN HEAD-ON FRONTAL

COLLISIONS, Yüksek Lisans, G.ŞAHİN(Öğrenci), 2022

Himmetoğlu S., Development of a metric system to evaluate the performance of passenger cars in frontal crash tests,

Yüksek Lisans, E.KAMIŞLI(Öğrenci), 2021

Himmetoğlu S., Smart car seat design for safety and comfort, Yüksek Lisans, C.KARABEYOĞLU(Öğrenci), 2019

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-Expanded)
- 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-Expanded)
- 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-Expanded)
- 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 ENGINEERING, cilt.221, ss.527-541, 2007 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Development of a mathematical tool to measure crash severity in frontal impacts**
Himmetoğlu S., Dugan G.
26th International Scientific Conference Transport Means 2022, Kaunas, Litvanya, 5 - 07 Ekim 2022, ss.254-259
- II. **Introduction of a protection system for rear-facing seats in autonomous car crashes**
Himmetoğlu S.
26th International Scientific Conference Transport Means 2022, Kaunas, Litvanya, 5 - 07 Ekim 2022, ss.104-109
- III. **Integration of muscle tone into a multi-body head-and-neck model for crash applications**
Himmetoğlu S.
26th International Scientific Conference Transport Means 2022, Kaunas, Litvanya, 5 - 07 Ekim 2022, ss.27-32
- IV. **Acceptance of autonomous vehicles in Turkey**
Himmetoğlu S., Zengin E. N., Özkök O., Kara B. S.
26th International Scientific Conference Transport Means 2022, 05 Ekim 2022, ss.134-139
- V. **A dynamic characterisation of full-overlap low-speed rear impacts**
Himmetoğlu S., Beyhan C., Zengin E. N.
19th International Conference on Machine Design and Production (UMTIK 2022), Nevşehir, Türkiye, 31 Ağustos - 03 Eylül 2022, ss.41-52
- VI. **Occupant protection in seats with fixed recliners in rear-end collisions**
Himmetoğlu S.
19th International Conference on Machine Design and Production (UMTIK 2022), Nevşehir, Türkiye, 31 Ağustos - 03 Eylül 2022, ss.97-109
- VII. **Female Modelling and Protection in Road-Traffic Accidents**
Himmetoğlu S., Şen F., Özer F. T.
26th International Scientific Conference Transport Means 2022, Kaunas, Virtual, Litvanya, 5 - 07 Ekim 2022, cilt.2022-October, ss.308-313
- VIII. **An Analysis of Head-on Frontal Collisions by Modelling Crash Tests**
HİMMETOĞLU S.
25th International Scientific Conference Transport Means 2021, Kaunas, Virtual, Litvanya, 6 - 08 Ekim 2021, cilt.2021-October, ss.86-91
- IX. **Validation of a Multi-Body Human Model for Efficient Rear Impact Simulations**
HİMMETOĞLU S.

25th International Scientific Conference Transport Means 2021, Kaunas, Virtual, Litvanya, 6 - 08 Ekim 2021, cilt.2021-October, ss.35-40

- X. **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
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **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
- XVIII. **Taşıt çarpışmalarında Poisson hipotezinin yarı-analitik yöntemle doğrulanması**
HİMMETOĞLU S.
18. Ulusal Makina Teorisi Sempozyumu (UMTS 2017), Trabzon, Türkiye, 5 - 07 Temmuz 2017
- XIX. **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
- XX. **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
- XXI. **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
- XXII. **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
- XXIII. **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
- XXIV. **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
- XXV. **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
- XXVI. **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
- XXVII. **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
- XXVIII. **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, Birleşik Krallık, 9 - 11 Eylül 2009
- XXIX. **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
- XXX. **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
- XXXI. **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
- XXXII. **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
- XXXIII. **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
- XXXIV. **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
- XXXV. **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

Metrikler

Yayın: 39

Atf (WoS): 39

Atf (Scopus): 59

H-İndeks (WoS): 4

H-İndeks (Scopus): 4

Davetli Konuşmalar

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