

Assoc. Prof. SELAHATTİN ÇAĞLAR BAŞLAMIŞLI

Personal Information

Office Phone: [+90 312 297 6208](tel:+903122976208) Extension: 130

Fax Phone: [+90 312 297 6206](tel:+903122976206)

Email: scaglarb@hacettepe.edu.tr

Education Information

Doctorate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Makina, Turkey 2003 - 2007

Foreign Languages

English, C1 Advanced

French, C1 Advanced

Dissertations

Doctorate, Yol Taşıtlarının Doğrusal Parametreleri Değişken Modellenmesi ve Kayma ve Devrilme Kiplerinin Dayanıklı Denetimi, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 2007

Post Graduate, Hız Kontrol Kasis Profillerinin Optimizasyonu, Orta Doğu Teknik Üniversitesi, Risk Analizi A.B.D., Maden Mühendisliği (YI) (Tezli), 2001

Research Areas

Mechanical Engineering, Machine Theory and Dynamics, System Dynamics and Control, Engineering and Technology

Professional Experience

Head of Department, Hacettepe Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2013 - Continues

Advising Theses

BAŞLAMIŞLI S. Ç., Design, control and optimization of vehicle suspensions with inerters, Post Graduate, O.GERGER(Student), 2013

BAŞLAMIŞLI S. Ç., Sliding mode control algorithm development for anti-lock brake system, Post Graduate, A.OKYAY(Student), 2011

BAŞLAMIŞLI S. Ç., RIDE COMFORT IMPROVEMENT BY APPLICATION OF TUNED MASS DAMPERS AND LEVER TYPE VIBRATION ISOLATORS, Post Graduate, G.AYDAN(Student), 2010

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

- I. **A thermal model for Li-ion batteries operating under dynamic conditions**
Amini A., ÖZDEMİR T., EKİCİ Ö., BAŞLAMIŞLI S. Ç. , KÖKSAL M.
APPLIED THERMAL ENGINEERING, vol.185, 2021 (Journal Indexed in SCI)
- II. **Design of energy management system algorithms for the improvement of fuel economy of intracity hybrid buses and development of an adaptive hybrid algorithm**
Ince B., BAŞLAMIŞLI S. Ç.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.1, pp.559-575, 2021 (Journal Indexed in SCI)
- III. **Fixed-order data-driven H-infinity controller synthesis for flexible mechanical systems: Two-stage approach**
Araz A. A. , BAŞLAMIŞLI S. Ç. , Ozmarangoz U. M.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, 2020 (Journal Indexed in SCI)
- IV. **PREDICTION OF THE ANNUAL HEAT LOAD OF AN ARTICULATED ELECTRIC URBAN BUS**
Tanyeri M. N. , BAŞLAMIŞLI S. Ç.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.40, no.1, pp.27-36, 2020 (Journal Indexed in SCI)
- V. **MIMO INTELLIGENT-PID CONTROLLER DESIGN FOR HALF CAR SYSTEM BASED ON MODEL FREE CONTROL TECHNIQUE**
Djema F., Haddar M., BAŞLAMIŞLI S. Ç. , Chaari R., Chaari F., Haddar M.
JOURNAL OF THEORETICAL AND APPLIED MECHANICS, vol.58, no.4, pp.953-969, 2020 (Journal Indexed in SCI)
- VI. **Intelligent PD controller design for active suspension system based on robust model-free control strategy**
Haddar M., Chaari R., Baslamisli S. Ç. , Chaari F., Haddar M.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.233, no.14, pp.4863-4880, 2019 (Journal Indexed in SCI)
- VII. **Road profile estimation using the dynamic responses of the full vehicle model**
Ben Hassen D., Miladi M., Abbas M. S. , BAŞLAMIŞLI S. Ç. , Chaari F., Haddar M.
Applied Acoustics, vol.147, pp.87-99, 2019 (Journal Indexed in SCI)
- VIII. **Road profile identification with an algebraic estimator**
Haddar M., Baslamisli S. Ç. , Chaari R., Chaari F., Haddar M.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.233, no.4, pp.1139-1155, 2019 (Journal Indexed in SCI)
- IX. **Data-driven fixed-order H_{∞} controller synthesis in frequency domain: Closed-loop system approach**
Daş E., Çağlar Başlamışlı S. Ç.
Transactions of the Institute of Measurement and Control, 2019 (Journal Indexed in SCI Expanded)
- X. **Road profile identification using estimation techniques: Comparison between independent component analysis and Kalman filter**
Chaabane M. M. , Hassen D. B. , Abbas M. S. , BAŞLAMIŞLI S. Ç. , Chaari F., Haddar M.
Journal of Theoretical and Applied Mechanics (Poland), vol.57, no.2, pp.397-409, 2019 (Journal Indexed in SCI)
- XI. **Torque distribution based on central differential mechanism control for lateral handling stability Yanal yol tutuş kararlılığı için merkezi diferansiyel kontrolü tabanlı çekiş torku dağıtımı**
ÖNDER E. T. , BAŞLAMIŞLI S. Ç.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.31, no.3, pp.491-500, 2016 (Journal Indexed in SCI)
- XII. **Experimental validation and robustness analysis of a multiple model switching antilock braking system control algorithm**
Dousti M., BAŞLAMIŞLI S. Ç.
International Journal of Vehicle Design, vol.71, no.1, pp.226-257, 2016 (Journal Indexed in SCI)
- XIII. **Adap-tyre: DEKF filtering for vehicle state estimation based on tyre parameter adaptation**
Ahangernejad A. H. , BAŞLAMIŞLI S. Ç.
International Journal of Vehicle Design, vol.71, no.1, pp.52-74, 2016 (Journal Indexed in SCI)

- XIV. **Design of a multiple-model switching controller for ABS braking dynamics**
Hamamci S., Dousti M., Baslamisli S. Ç. , Onder e. T. , Solmaz S.
Transactions of the Institute of Measurement and Control, vol.37, no.5, pp.582-595, 2015 (Journal Indexed in SCI)
- XV. **A new sliding-mode controller design methodology with derivative switching function for anti-lock brake system**
Okyay A., CİĞEROĞLU E., Başlamişli S. Ç.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.227, no.11, pp.2487-2503, 2013 (Journal Indexed in SCI)
- XVI. **Simultaneous estimation of road friction and sideslip angle based on switched multiple non-linear observers**
Solmaz S., BAŞLAMIŞLI S. Ç.
IET Control Theory and Applications, vol.6, no.14, pp.2235-2247, 2012 (Journal Indexed in SCI)
- XVII. **A nonlinear sideslip observer design methodology for automotive vehicles based on a rational tire model**
Solmaz S., BAŞLAMIŞLI S. Ç.
International Journal of Advanced Manufacturing Technology, vol.60, pp.765-775, 2012 (Journal Indexed in SCI)
- XVIII. **Handling stability improvement through robust active front steering and active differential control**
BAŞLAMIŞLI S. Ç. , Kose I. E. , Anlaş G.
Vehicle System Dynamics, vol.49, no.5, pp.657-683, 2011 (Journal Indexed in SCI)
- XIX. **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)
- XX. **Gain-scheduled integrated active steering and differential control for vehicle handling improvement**
BAŞLAMIŞLI S. Ç. , Kose I. E. , Anlaş G.
VEHICLE SYSTEM DYNAMICS, vol.47, no.1, pp.99-119, 2009 (Journal Indexed in SCI)
- XXI. **Robust control of anti-lock brake system**
Baslamisli S. Ç. , Köse I. E. , Anlaş G.
User Modeling and User-Adapted Interaction, vol.45, no.3, pp.217-232, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Jant İçi Elektrik Motorunun Kritik Parçalarının Yorulma Analizi**
Çakıcı U. G. , BAŞLAMIŞLI S. Ç. , SOLMAZ S., YILMAZ K. B. , YILDIRIM B.
Mühendis ve Makina, vol.60, pp.132-146, 2019 (Other Refereed National Journals)
- II. **THE EFFECT OF DIFFERENT GEAR RATIO SELECTION ALGORITHMS ON THE EFFICIENCY OF CONVENTIONAL AND PARALLEL HYBRID DRIVETRAINS**
amini a., BAŞLAMIŞLI S. Ç. , İnce B., Koçak M.
ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY A - Applied Sciences and Engineering, vol.18, no.4, pp.804-818, 2017 (Refereed Journals of Other Institutions)
- III. **Parametric analysis and compensation of ride comfort for electric drivetrains utilizing in-wheel electric motors**
Solmaz S., Afatsun A. C. , BAŞLAMIŞLI S. Ç.
International Journal of Simulation: Systems, Science and Technology, vol.17, no.33, 2016 (Refereed Journals of Other Institutions)
- IV. **Lateral stability control based on active motor torque control for electric and hybrid vehicles**
Yoğurtçu I., Solmaz S., BAŞLAMIŞLI S. Ç.
International Journal of Simulation: Systems, Science and Technology, vol.17, no.33, 2016 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Thermal Behavior of a Li-Ion Battery in the Highway Driving Cycle**
Amini A., Özelci B., ÖZDEMİR T., EKİCİ Ö., BAŞLAMIŞLI S. Ç. , KÖKSAL M.
ULIBTK'xx19 22th Congress of Thermal Sciences and Technology, 11 - 14 September 2019
- II. **Operational Modal Analysis for a Half Vehicle Model**
Ben Hassen D., Miladi M., Abbes M. S. , BAŞLAMIŞLI S. Ç. , Chaari F., Haddar M.
2nd International Conference on Acoustics and Vibration (ICAV), Hammamet, Tunisia, 19 - 21 March 2018, vol.13, pp.51-60
- III. **Online identification of road profile variation using a constant piecewise function**
Haddar M., BAŞLAMIŞLI S. Ç. , Chaari F., Haddar M.
7th Conference on Design and Modeling of Mechanical Systems, CMSM 2017, Hammame, Tunisia, 27 - 29 March 2017, pp.517-524
- IV. **Application of the independent component analysis in the estimation of the road disturbance applied on a nonlinear suspension system**
Ben Hassen D., Miladi M., Abbes M. S. , Çağlar Baslamisli S. Ç. , Chaari F., haddar M.
7th Conference on Design and Modeling of Mechanical Systems, CMSM 2017, Hammame, Tunisia, 27 - 29 March 2017, pp.281-289
- V. **Application of the Operational Modal Analysis Using the Independent Component Analysis for a Quarter Car Vehicle Model**
Ben Hassen D., Miladi M., Abbes M. S. , BAŞLAMIŞLI S. Ç. , Chaari F., Haddar M.
1st International Conference of the Tunisian-Association-of-Industrial-Acoustics-and-Vibration on Acoustics and Vibration (ICAV), Hammamet, Tunisia, 21 - 23 March 2016, vol.5, pp.125-133
- VI. **Lateral stability control based on active motor torque control for electric and hybrid vehicles**
Yogurtcu I., Solmaz S., Baslamish S. Ç.
9th UKSim-AMSS IEEE European Modelling Symposium on Computer Modelling and Simulation, EMS 2015, Madrid, Spain, 06 October 2015 - 08 October 2016, pp.213-218
- VII. **İKİ SERBESTLİK DERECELİ BİR SİMÜLATÖR PLATFORMUNUN KİNEMATİK VE KİNETİK ANALİZİ**
BAŞLAMIŞLI S. Ç. , ÖNDER E. T. , Tayfur B., Özkan Ö.
OTEKON 2016, Turkey, 23 - 24 May 2016
- VIII. **Tekerlek içi elektrik motoru kullanan elektrikli araçlar için sürüş konforunun parametrik analizi ve iyileştirilmesi**
AHMET CAN A., SOLMAZ S., BAŞLAMIŞLI S. Ç.
Uluslararası katılımlı 17. Makina Teorisi Sempozyumu / TrC-IFTToMM Symposium on Theory of Machines and Mechanisms / UMTS2015 / TrISToMM, 14 - 17 June 2015
- IX. **Parametric Analysis and Compensation of Ride Comfort for Electric Drivetrains Utilizing in-Wheel Electric Motors**
Solmaz S., Afatsun A. C. , BAŞLAMIŞLI S. Ç.
UKSim-AMSS 9th IEEE European Modelling Symposium on Computer Modelling and Simulation (EMS), Madrid, Spain, 6 - 08 October 2015, pp.219-224
- X. **Entropy based classification of road-profiles**
Çağlar Baslamisli S. Ç. , ÖNEL S.
ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, ESDA2010, İstanbul, Turkey, 12 - 14 July 2010, vol.4, pp.401-408
- XI. **Construction of a rational tire model for high fidelity vehicle dynamics simulation under extreme driving and environmental conditions**
BAŞLAMIŞLI S. Ç. , Solmaz S.
ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, ESDA2010, İstanbul, Turkey, 12 - 14 July 2010, vol.3, pp.131-137
- XII. **Sliding-mode control algorithm development for anti-lock braking system**
Okyay A., CİĞEROĞLU E., BAŞLAMIŞLI S. Ç.

ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, ESDA2010, İstanbul, Turkey, 12 - 14 July 2010, vol.5, pp.115-123

XIII. Application of tuned mass dampers and lever type vibration isolator to the quarter-car model in order to increase ride comfort

Aydan G., CIĞEROĞLU E., BAŞLAMIŞLI S. Ç.

ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, ESDA2010, İstanbul, Turkey, 12 - 14 July 2010, vol.3, pp.67-75

XIV. Gain scheduled integrated vehicle control based on a parametric yaw roll model

BAŞLAMIŞLI S. Ç. , Polat I., Köse I. E.

2008 IEEE Intelligent Vehicles Symposium, IV, Eindhoven, Netherlands, 4 - 06 June 2008, pp.666-671

XV. Gain scheduled active steering control based on a parametric bicycle model

Baslamisli S. Ç. , Polat I., Kose I. E.

2007 IEEE Intelligent Vehicles Symposium, IV 2007, İstanbul, Turkey, 13 - 15 June 2007, pp.1168-1173

XVI. Design of active steering and intelligent braking systems for road vehicle handling improvement: A robust control approach

Başlamışli S. Ç. , Köse I. E. , Anlaş G.

Joint 2006 IEEE Conference on Control Applications (CCA), Computer-Aided Control Systems Design Symposium (CACSD) and International Symposium on Intelligent Control (ISIC), Munich, Germany, 4 - 06 October 2006, pp.909-914

Supported Projects

BAŞLAMIŞLI S. Ç. , ÖNDER E. T. , SÜMER B., Project Supported by Higher Education Institutions, Şekil Bellek Alaşım bir Telin Parametere Karakterizasyonu, 2018 - 2019

Başlamışli S. Ç. , TUBITAK Project, Kazarek Kaza Kayıt ve Rekonstrüksiyon Cihazı, 2016 - 2018

BAŞLAMIŞLI S. Ç. , Project Supported by Other Private Institutions, Kayma kızaklama giderme algoritması tasarımı ve geliştirilmesi çalışması, 2016 - 2017

KOÇKAR B., GÖRTAN M. O. , BAŞLAMIŞLI S. Ç. , KÖKSAL M., EKİCİ Ö., ÜNVER Ö., YILDIRIM B., Project Supported by Higher Education Institutions, Formula Student Yarışmasına Katılmak Üzere Yarış Aracı Tasarımı ve Üretimi, 2015 - 2017

BAŞLAMIŞLI S. Ç. , KUTLUAY E., TUBITAK Project, Şerit Koruma Asistanı Sisteminin Performansının Arttırılmasına Yönelik Koordineli Müdahale Yaklaşımının Tasarımı Ve Simülasyonu, 2014 - 2017

BAŞLAMIŞLI S. Ç. , TUBITAK Project, 3 Boyutlu Yol Harita Verileri Kullanan Öngörülü Ekonomik ve Güvenli Sürüş Asistanı Sistemi nin Geliştirilmesi, 2013 - 2016

BAŞLAMIŞLI S. Ç. , TUBITAK Project, Araç Sürüş Konforunun Artırılması İçin Pasif Titreşim Sönümleyicilerinin Geliştirilmesi Ve Test Edilmesi, 2011 - 2015

BAŞLAMIŞLI S. Ç. , Project Supported by Higher Education Institutions, Otomotiv Mühendisliği Programı Araç Dinamiği Laboratuvarının Kurulması, 2009 - 2015

Citations

Total Citations (WOS):152

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