



Seyyed Ali Zahiripour

Assistant Professor

College: Faculty of Electrical and Computer Engineering

Department: Electrical Engineering - Control

Education

Degree	Graduated in	Major	University
BSc	2010	Electrical Engineering, Control	Iran University of Science and Technology
MSc	2012	Electrical Engineering, Control	Iran University of Science and Technology
Ph.D	2017	Electrical Engineering, Control	Iran University of Science and Technology
Post Doctoral	2018	Electrical Engineering, Control	Iran University of Science and Technology

Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
Control Engineering Department	Assistant Professor	On Contract	Full Time	

Subjects Taught

- Robust Control
- Stochastic Control
- Advanced Linear Algebra

Papers in Conferences

1. SA Zahiripour, AA Jalali ,Designing an adaptive sliding mode controller for car active suspension system using an optimal proportional-integral sliding surface ,International Conference on Future

Information Technology and Management Science & Engineering ,2012.

2. K Hoosmandi, SKM Mashhadi, SA Zahiripour ,Sliding mode control for stochastic Markovian jumping systems with actuator saturation ,1st Conference meta-heuristic algorithms and applications in science and engineering ,2014.

3. ایوب عبدلی، سید علی ظهیری پور، محمد باقر منهج، امیرابوالفضل صورتگر، استخراج معادلات انتشار خطای ناوبری. و مقایسه آن با فریم جغرافیایی، چهارمین کنفرانس بین المللی کنترل و ابزار دقیق، ۱۳۹۶ Tangent اینرسی در فریم

4. سید علی ظهیری پور، میلاد فامیلیان، علی اکبر جلالی، کنترل مد لغزشی سیستم تعلیق نیمه فعال قطار پر سرعت با. تنظیم کننده فازی، سومین کنفرانس بین المللی پیشرفتهای اخیر در مهندسی راه آهن، ۱۳۹۲

5. سید علی ظهیری پور، رضا تفقیدی اسراری، علی اکبر جلالی، سید کمال الدین موسوی مشهدی، کنترل لغزشی تطبیقی. سیستم تعلیق قطار سریع-السیار با استفاده از یک سطح لغزش بهینه تناسبی انتگرالی، سومین کنفرانس بین المللی پیشرفتهای اخیر در مهندسی راه آهن، ۱۳۹۲.

Papers in Journals

1. Seyed Ali Zahiripour, Samira Ghorbani, Sliding mode control of the active suspension system using a nonlinear sliding surface with considering the stochastic nature of uncertainties, Journal of Vibration and Control, 2024.

2. Seyed Ali Zahiripour. Investigating the Effect of Semi-Analytical Initial Alignment Error on The Efficiency of Inertial Navigation System. Journal of Aeronautical Engineering, ۲۰۲۴.

3. Seyed Ali Zahiripour. Analytical evaluation of the pressure feedback performance in control of the hydraulic actuators by classical method. Aerospace Knowledge and Technology Journal, ۲۰۲۴.

4. Seyed Ali Zahiripour. Physical Initial Flight Alignment For Stabilized Platform Inertial Navigation system Using State Feedback. Space Science and Technology, ۲۰۲۳.

5. Seyed Ali Zahiripour, A Natural Logarithm Sliding Mode Controller for Stochastic Time-Delay Systems, European Journal of Control, 2023.

6. Seyed Ali Zahiripour, A logarithmic sliding mode controller for stochastic active suspension systems, Transactions of the Institute of Measurement and Control, 2023.

7. E Nazemorroaya, M Shafieirad, SA Zahiripour, Mean square consensus of heterogeneous multi-agent systems in the presence of actuator faults, Transactions of the Institute of Measurement and Control, 2022.

8. Seyed Ali Zahiripour. Robust Sliding Mode Controller Design for the Complete Model of an Aircraft in the presence of a variety of Uncertainties. Aerospace Mechanics Journal, ۲۰۲۲.

9. A Abdoli, MB Menhaj, SA Zahiripour. Correction of Calibration of Navigation System Sensors during Operation by Implementing Non-Orthogonal Structure of Accelerometers. Aerospace Knowledge and Technology Journal, ۲۰۲۱.

10. A Abdoli, MB Menhaj, SA Zahiripour. Extraction of Calibration Time Intervals for Inertial Navigation systems Using Monte Carlo Analysis. Aerospace Knowledge and Technology Journal, ۲۰۲۱.

11. A Abdoli, MB Menhaj, SA Zahiripour. Accuracy Improvement of Inertial Navigation Error Propagation Model for Increasing Efficiency of Integrated Navigation System. Aerospace Knowledge and Technology Journal, ۲۰۲۰.

12. SA Zahiripour, AA Jalai. Systematic Approach of Extracting Sliding Manifold in Robust Stabilizing of Stochastic Multi-input Systems. Journal of the Franklin Institute, ۲۰۱۶.

13. SA Zahiripour, AA Jalai. A New Method for Extracting an Optimal Sliding Surface and Its application to Control of a Quarter Car Active Suspension System. Journal of Solid and Fluid Mechanics, ۲۰۱۵.

14. SA Zahiripour, M Familian, AA Jalai, SKM Mashhadi. Improving H_∞ Control using new Robust Model Reference Sliding-Fuzzy Algorithm for High Speed Train Active Suspension System. Aerospace mechanics journal, ۲۰۱۵.

15. SA Zahiripour, AA Jalai, A Novel Adaptive Switching Function On Fault Tolerable Sliding Mode Control For Uncertain Stochastic Systems, ISA Transactions, 2014.

16. SA Zahiripour, R Tafaghodi Asrari, AA Jalai, SKM Mashhadi. Designing An Adaptive Sliding-Mode

Controller For Car Active Suspension System Using An Optimal Logarithmic Sliding Surface. Iranian Journal of Electrical and Computer Engineering. ۲۰۱۴.

17. AA Jalali, SA Zahiripour, E Saedi Roodi. Design of Robust Optimal Controller for Hybrid Electric Vehicle by using Road Information. Journal of Control. ۲۰۱۳.

18. AA Nikkhah, SM Salehi Amiri, SA Zahiripour, Extracting Dynamics Matrix of Alignment Process of Gimbaled Inertial Navigation System Using Heuristic Dynamic Programming Method, Journal of Aerospace Science and Technology, 2013.

19. MR Faeghi, AA Jalali, SKM Mashhadi, SA Zahiripour. Adaptive Sliding Mode Controller Design for Cruise Control of High Speed Trains. Journal of Control. ۲۰۱۳.

20. SA Zahiripour, AA Jalali. Designing an Optimal Proportional-Integral Sliding Surface for a Quarter Car Active Suspension System with Suspension Components Possessing Uncertain Constants and Nonlinear Characteristics. Iranian Journal of Electrical and Computer Engineering. ۲۰۱۲.

21. SA Zahiripour, AA Jalali. Improving Hybrid Model Reference Sliding Mode Control of a Car Active Suspension System Using Optimum Turn of Sliding Surfaces and Fuzzy Logic. Aerospace mechanics journal. ۲۰۱۲.