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Papers in Conferences

1. Sadra Rafatnia, Javad Faraji, Javad Faraji, Jafar Keighobadi, Abolfazl Totounchi, Design and implementation of model predictive estimation algorithm for In-move aligned INS/GPS system, 24th International Conference of Iranian Society of Mechanical Engineers (ISME) At: Tehran, Iran, 2019, 04-05.
2. Jafar Keighobadi, Hossein Nourmohammadi, Sadra Rafatnia, Design and Implementation of GA Filter Algorithm for Baro-inertial Altitude Error Compensation, ICLTET-2018, 2018, 03-21.

Papers in Journals

1. Mehran Hosseini, Jafar Keighobadi, Armin Pirastehzad, M.J. Yazdanpanah, Immersion and invariance-based extended state observer design for a class of nonlinear systems, International Journal of Robust and Nonlinear Control, 2021, 05-21.
2. Jafar Keighobadi, Mehran Hossein, Javad Faraji, Adaptive neural dynamic surface control of mechanical systems using integral terminal sliding mode, Neurocomputing, 2019, 12-21.
3. H. Mohammadian, Khalafansar, Jafar Keighobadi, Adaptive Inverse Deep Reinforcement Lyapunov learning control for a floating wind turbine, Scientia Iranica, 2023, 01-15.
4. Hossein Nourmohammadi, Jafar Keighobadi, Decentralized INS/GPS system with MEMS-grade inertial sensors using QR-factorized CKF, IEEE Sensors Journal, 2017, 06-01.
5. Parisa Doostdar, Jafar Keighobadi, INS/GNSS integration using recurrent fuzzy wavelet neural networks, GPS Solutions, 2020, 05-21.
6. Mohammad Reza Moghanni, Babil Olyaei, Jafar Keighobadi, Ahmad Ghanbari, Angelina Olegovna Zekiy, Passivity-based hierarchical sliding mode control/observer of underactuated mechanical systems, Journal of Vibration and Control, 2022, 05-19.
7. Mehran Hosseini, Jafar Keighobadi, Extended state observer-based robust non-linear integral dynamic surface control for triaxial MEMS gyroscope, Robotica, 2019, 01-15.
8. Hossein Nourmohammadi, Jafar Keighobadi, Fuzzy adaptive integration scheme for low-cost SINS/GPS navigation system, Mechanical Systems and Signal Processing, 2018, 10-12.
9. Mehran Hosseini, & Pishrobat, Jafar Keighobadi, Robust output regulation of a triaxial MEMS gyroscope via nonlinear active disturbance rejection, International Journal of Robust and Nonlinear Control, 2017, 10-12.
10. Jafar Keighobadi · Hamid Vosoughi · Javad Faraji, Design and implementation of a model predictive observer for AHRS, GPS Solutions, 2018, 10-12.
11. Hossein Nourmohammadi, Jafar Keighobadi, Design and experimental evaluation of indirect centralized and direct decentralized integration scheme for low-cost INS/GNSS system, GPS Solutions, 2018, 04-12.

12. Mohammad Reza Moghanni Babil Olyaei Ahmad Ghanbari Jafar Keighobadi, Trajectory Tracking Control of a Class of Underactuated Mechanical Systems with Nontriangular Normal Form Based on Block Backstepping Approach, *Journal of Intelligent & Robotic Systems*, 2019 01 24.
13. Ahmadreza Najafi Jafar Keighobadi, Full-state-feedback, Fuzzy type I and Fuzzy type II control of MEMS accelerometer, *Journal of Mechanical Science and Technology*, ۲۰۱۸ ۱۰ ۱۲.
14. Jafar Keighobadi Mehran Hosseini Atta Oveisi Tamara Nestorovi'c, Robust Linear Output Regulation Using Extended State Observer, *Mathematical Problems in Engineering Mathematical Problems in*, 2018 10 12.
15. Jafar Keighobadi Hojjat Fouladi Davood Hashempour Amirreza Rafat Talebi, Dynamical Investigation of Cam-Follower Profile Under Space -100 to + 120°C Temperature Condition, *Journal of Mechanical Engineering and Applications*, 2021 12 19.
16. Jafar Keighobadi Javad Faraji Farrokh Janabi و Sharifi Mohammad Ali Hamed, Design and experimental evaluation of block-pulse functions and Legendre polynomials observer for attitude-heading reference system, *ISA Transactions*, ۲۰۲۱ ۰۵ ۲۱.
17. Jafar Keighobadi Mehran Hosseini Javad Faraji Milad Naseri, Design and Experimental Evaluation of Immersion and Invariance Observer for Low-Cost Attitude-Heading Reference System, *IEEE Transactions on Industrial Electronics*, ۲۰۲۰ ۰۱ ۲۴.
18. Mehran Hosseini Jafar Keighobadi, Robust Vibration Control and Angular Velocity Estimation of a Single-Axis MEMS Gyroscope Using Perturbation Compensation, *Journal of Intelligent & Robotic Systems*, ۲۰۱۹ ۰۵ ۲۱.
19. Jafar Keighobad Mehran Hosseini Javad Faraji Ata Oveisi Tamara Nestorovi'c, Robust nonlinear control of atomic force microscope via immersion and invariance, *INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL*, ۲۰۱۹ ۰۳ ۱۰.
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21. H. Mohammadian Khalafansar Jafar Keighobad, Deep Reinforcement Learning with Immersion- and Invariance-based State Observer Control of Wave Energy Converters, *International Journal of Engineering*, 2024 05 01.
22. Jafar Keighobadi Hadi Mohammadian KhalafansarPeiman Naseradinmousavi, Adaptive neural dynamic surface control for uniform energy exploitation of floating wind turbine, *Applied Energy*, 2022 06 15.
23. Sadra Rafatnia Hossein Nourmohammad iJafar Keighobadi, Fuzzy-adaptive constrained data fusion algorithm for indirect centralized integrated SINS/GNSS navigation system, *GPS Solutions*, 2019 04 11.
24. Sadra Rafatnia Hossein Nourmohammadi Keighobadi Mohammad Ali Badamchizadeh, In-move aligned SINS/GNSS system using recurrent wavelet neural network (RWNN)-based integration scheme, *Mechatronics*, 2018 10 12.
25. Hossein Nourmohammadi Jafar Keighobadi, Integration Scheme for SINS/GPS System Based on Vertical Channel Decomposition and In-Motion Alignment, *AUT Journal of Modeling, and Simulation*, 2018 10 12, 30.
26. Atta Oveisi Mehran Hosseini Tamara Nestorovi'c Jafar Keighobadi, Observer-based repetitive model predictive control in active vibration suppression, *Structural Control and Health Monitoring*, 2018 10 12.
27. Mahmood Reza Azizi Jafar Keighobadi, Point stabilization of nonholonomic spherical mobile robot using nonlinear model predictive control, *Robotics and Autonomous Systems*, 2017 10 12.