Hamzah Ahmad

List of Publications by Year
in descending order

55 papers	318 citations	1478505 6 h-index	940533 16 g-index
57 all docs	57 docs citations	57 times ranked	303 citing authors

#	Article	IF	Citations
1	Electrical circuit model of a vanadium redox flow battery using extended Kalman filter. Journal of Power Sources, 2013, 239, 284-293.	7.8	91
2	Extended Kalman filter-based mobile robot localization with intermittent measurements. Systems Science and Control Engineering, 2013, 1, 113-126.	3.1	65
3	An assembly sequence planning approach with a rule-based multi-state gravitational search algorithm. International Journal of Advanced Manufacturing Technology, 2015, 79, 1363-1376.	3.0	25
4	Estimating the State-of-Charge of all-Vanadium Redox Flow Battery using a Divided, Open-circuit Potentiometric Cell. Elektronika Ir Elektrotechnika, 2013, 19, .	0.8	19
5	Robotic Mapping and Localization Considering Unknown Noise Statistics. Journal of System Design and Dynamics, 2011, 5, 70-82.	0.3	15
6	A Novel Multi-state Particle Swarm Optimization for Discrete Combinatorial Optimization Problems. , 2012, , .		11
7	Robot localization and mapping problem with unknown noise characteristics. , 2010, , .		10
8	Intermittent Measurement in Robotic Localization and Mapping with FIM Statistical Bounds. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 1223-1232.	0.2	10
9	The impact of cross-correlation on mobile robot localization. International Journal of Control, Automation and Systems, 2015, 13, 1251-1261.	2.7	7
10	Feasibility study of partial observability in H<inf>&#x221E;</inf> filtering for robot localization and mapping problem. , 2010, , .		6
11	Hâˆž Filter-SLAM: A Sufficient Condition for Estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3159-3164.	0.4	5
12	Examining the eigenvalues effect to the computational cost in mobile robot simultaneous localization and mapping. Computers and Electrical Engineering, 2016, 56, 659-673.	4.8	5
13	Fuzzy Logic Controller Design for A Robot Grasping System with Different Membership Functions. IOP Conference Series: Materials Science and Engineering, 2013, 53, 012051.	0.6	4
14	An AC Magnetometer using Automatic Frequency Switching of a Resonant Excitation Coil for Magnetic Nanoparticles Characterization. , 2018, , .		4
15	A Solution to Partial Observability in Extended Kalman Filter Mobile Robot Navigation. Telkomnika (Telecommunication Computing Electronics and Control), 2018, 16, 134.	0.8	4
16	Sufficient Condition for Estimation in DesigningHâˆžFilter-Based SLAM. Mathematical Problems in Engineering, 2015, 2015, 1-14.	1.1	3
17	An Assembly Sequence Planning Approach with a Multi-state Particle Swarm Optimization. Lecture Notes in Computer Science, 2016, , 841-852.	1.3	3
18	Robot localization and mapping problem with bounded noise uncertainties. , 2012, , .		2

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19	An Improved Multi-state Particle Swarm Optimization for Discrete Optimization Problems. , 2015, , .		2
20	A Fictitious Reference Iterative Tuning Method for Buck Converter-Powered DC Motor Control System. Lecture Notes in Electrical Engineering, 2020, , 47-58.	0.4	2
21	Three Fingered Gripper Grasping Analysis of Different Objects Using Fuzzy Logic Controller. Advanced Science Letters, 2017, 23, 5102-5106.	0.2	2
22	Distinguish Sea Turtle and Fish Using Sound Technique in Designing Acoustic Deterrent Device. Telkomnika (Telecommunication Computing Electronics and Control), 2015, 13, 1305.	0.8	2
23	A Solution to Partial Observability in Extended Kalman Filter Mobile Robot Navigation. Telkomnika (Telecommunication Computing Electronics and Control), 2018, 16, 134.	0.8	2
24	Data-Driven Impedance Matching in Multilateral Teleoperation Systems. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 10, 713.	0.8	2
25	Covariance inflation efficiency in H<inf>&#x221E;</inf> filter based SLAM. , 2011, , .		1
26	The effect of intermittent measurement in Simultaneous Localization and Mapping. , 2013, , .		1
27	Investigation on intermittent observation in mobile robot localization with fuzzy logic technique. , 2016, , .		1
28	Fuzzy logic based centralized power sharing scheme. , 2016, , .		1
29	Detection and analysis of activity recognition for and rehabilitation. , 2017, , .		1
30	A Resonant Type AC Magnetometer for Evaluation of Magnetic Nanoparticles. Lecture Notes in Mechanical Engineering, 2018, , 93-99.	0.4	1
31	Analysis of Mobile Robot Path Planning with Artificial Potential Fields. Lecture Notes in Electrical Engineering, 2019, , 181-196.	0.4	1
32	Hâˆž Filter with Fuzzy Logic Estimation to Refrain Finite Escape Time. Lecture Notes in Electrical Engineering, 2022, , 303-312.	0.4	1
33	Periodic Boundary Value Problems For Systems of First-Order Differential Equations with Impulses. Springer Proceedings in Mathematics and Statistics, 2013, , 525-534.	0.2	1
34	Detection of Metallic Contaminant in Aluminium Soda Can Using TMR Sensor. Lecture Notes in Mechanical Engineering, 2018, , 527-535.	0.4	1
35	Diagonalization of Covariance Matrix in Simultaneous Localization and Mapping of Mobile Robot. Lecture Notes in Electrical Engineering, 2019, , 285-297.	0.4	1
36	Acoustic Strength of Green Turtle and Fish Based on FFT Analysis. International Journal of Advanced Computer Science and Applications, 2013, 4, .	0.7	1

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37	Kalman Filter Estimation of Impedance Parameters for Medium Transmission Line. Telkomnika (Telecommunication Computing Electronics and Control), 2018, 16, 900.	0.8	1
38	Investigating State Covariance Properties During Finite Escape Time in Hâˆž Filter SLAM. Lecture Notes in Electrical Engineering, 2019, , 271-283.	0.4	1
39	An Improved Multi-State Particle Swarm Optimization for Discrete Combinatorial Optimization Problems. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	1
40	FRIT-based integral action state feedback controller tuning using PSO for a liquid slosh suppression system. Bulletin of Electrical Engineering and Informatics, 2022, 11, 1260-1271.	0.8	1
41	Analyzing the mobile robot localization performance in partially observable conditions. , 2014, , .		0
42	Estimation behavior of intermittent measurement in EKF-based SLAM. , 2014, , .		0
43	Intelligent control of robot gripper considering feature conditions. , 2014, , .		0
44	A Multi-state Gravitational Search Algorithm for Combinatorial Optimization Problems. , 2015, , .		0
45	Rule-based multi-state gravitational search algorithm for discrete optimization problem. , 2015, , .		0
46	Kalman filter estimation of RLC parameters for UMP transmission line. MATEC Web of Conferences, 2018, 150, 01017.	0.2	0
47	Adaptive Speed Control for Autonomous Mobile Robot Using Fuzzy Logic Controller. Communications in Computer and Information Science, 2012, , 67-74.	0.5	0
48	DESIGN AND ANALYSIS OF FLC AND FEEDBACK CONTROL FOR THREE FINGER GRIPPER SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
49	An Approach of Fuzzy Logic Hâˆž Filter in Mobile Robot Navigation Considering Non-Gaussian Noise. , 0, , .		0
50	Data Association Analysis in Simultaneous Localization and Mapping Problem. International Journal of Integrated Engineering, 2019, 11, .	0.4	0
51	Model-Free Tuning of Laguerre Network for Impedance Matching in Bilateral Teleoperation System. Lecture Notes in Electrical Engineering, 2021, , 329-343.	0.4	0
52	A Novel Multi-State Gravitational Search Algorithm for Discrete Optimization Problems. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	0
53	An Analysis of State Covariance of Mobile Robot Navigation in Unstructured Environment Based on ROS. Lecture Notes in Electrical Engineering, 2021, , 259-270.	0.4	0
54	Hâˆž Filter with Fuzzy Logic Estimation: An Analysis to Refrain Finite Escape Time (FET). Lecture Notes in Electrical Engineering, 2022, , 909-921.	0.4	0

#	Article	IF	Citations
55	Intermittent Measurement and Finite Escape Time Correlations Study in Hâˆž Filter in Navigation. Lecture Notes in Electrical Engineering, 2022, , 601-611.	0.4	0