

Mohammad Biglarbegian

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

560
citations

759055

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g-index

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all docs

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docs citations

37
times ranked

650
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Safer Navigation of Heterogeneous Mobile Robots in Distributed Scheme: A Novel Time-to-Collision-Based Method. IEEE Transactions on Cybernetics, 2022, 52, 9302-9315.	6.2	4
2	A Novel Predictive Safety Criteria for Robust Collision Avoidance of Autonomous Robots. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3773-3783.	3.7	1
3	A note on the use of Dynamic Mode Decomposition in mechanics. Mechanics Research Communications, 2022, 120, 103848.	1.0	3
4	Explicit Nonlinear MPC for Fault Tolerance Using Interacting Multiple Models. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2784-2794.	2.6	11
5	Monocular Visual Inertial Direct SLAM with Robust Scale Estimation for Ground Robots/Vehicles. Robotics, 2021, 10, 23.	2.1	5
6	Measurement of land surface temperature from oblique angle airborne thermal camera observations. International Journal of Remote Sensing, 2020, 41, 3119-3146.	1.3	18
7	An assessment of shallow neural networks for stress updates in computational solid mechanics. International Journal for Computational Methods in Engineering Science and Mechanics, 2020, 21, 277-291.	1.4	1
8	Development of a Novel Robust Control Method for Formation of Heterogeneous Multiple Mobile Robots With Autonomous Docking Capability. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1759-1776.	3.4	14
9	Development of Novel Motion Planning and Controls for a Series of Physically Connected Robots in Dynamic Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 291-310.	2.0	6
10	Experimental investigation of the effect of an external magnetic field on the thermal conductivity and viscosity of Fe ₃ O ₄ glycerol. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1451-1464.	2.0	15
11	Reliability-based robust dynamic positioning for a turret-moored floating production storage and offloading vessel with unknown time-varying disturbances and input saturation. ISA Transactions, 2018, 78, 66-79.	3.1	25
12	Air-LUSI: Estimation, Filtering, and PID Tracking Simulation. , 2018, , .		2
13	Mobile Robot Motion Tracking Using Descriptor Matching and Sensor Fusion. , 2018, , .		2
14	Backstepping Tracking Control Design for a Tractor Robot Pulling Multiple Trailers. , 2018, , .		12
15	Robust Adaptive Dynamic Surface Control Based on Structural Reliability for a Turret-moored Floating Production Storage and Offloading Vessel. International Journal of Control, Automation and Systems, 2018, 16, 1648-1659.	1.6	17
16	Development of a New Robust Controller With Velocity Estimator for Docked Mobile Robots: Theory and Experiments. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1287-1298.	3.7	18
17	Design and control of an exoskeleton based device for hand rehabilitation. , 2017, , .		3
18	Review of Recent Type-2 Fuzzy Controller Applications. Algorithms, 2016, 9, 39.	1.2	58

#	ARTICLE	IF	CITATIONS
19	State of the Art Robotic Grippers and Applications. <i>Robotics</i> , 2016, 5, 11.	2.1	157
20	Optimal design of formation tracking control for a tractor-trailer robotic system with omni-directional wheels. , 2016, , .		6
21	A memetic algorithm approach for solving the task-based configuration optimization problem in serial modular and reconfigurable robots. <i>Robotica</i> , 2016, 34, 1979-2008.	1.3	6
22	A survey on recent energy harvesting mechanisms. , 2016, , .		23
23	A new design of magnetorheological fluid based braking system using genetic algorithm optimization. <i>International Journal of Mechanics and Materials in Design</i> , 2016, 12, 449-462.	1.7	9
24	Conflict Resolution of Cluttered Multi-robot Systems Using Metaheuristic Optimization Algorithms. , 2015, , .		2
25	A Novel Approach to the Design of Axial-Flux Switched-Reluctance Motors. <i>Machines</i> , 2015, 3, 27-54.	1.2	9
26	Development of an Effective Docking System for Modular Mobile Self-Reconfigurable Robots Using Extended Kalman Filter and Particle Filter. <i>Robotics</i> , 2015, 4, 25-49.	2.1	11
27	Analytical and Numerical Studies of Heat Transfer in Nanocomposite Thermoelectric Coolers. <i>Journal of Electronic Materials</i> , 2015, 44, 2915-2929.	1.0	4
28	On the justification to use a novel simplified interval type-2 fuzzy logic system. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015, 28, 1071-1079.	0.8	3
29	Effect of Convection Heat Transfer on Performance of Waste Heat Thermoelectric Generator. <i>Heat Transfer Engineering</i> , 2015, 36, 1458-1471.	1.2	27
30	A hybrid EKF/KF state estimator for a skid-steered ATV. <i>Vehicle System Dynamics</i> , 2014, 52, 85-110.	2.2	1
31	Path planning for data collectors in Precision Agriculture WSNs. , 2014, , .		11
32	Intelligent system design for bionanorobots in drug delivery. <i>Cancer Nanotechnology</i> , 2013, 4, 117-125.	1.9	19
33	A Novel Robust Leader-Following Control Design for Mobile Robots. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013, 71, 391-402.	2.0	20
34	Computationally Efficient Adaptive Type-2 Fuzzy Control of Flexible-Joint Manipulators. <i>Robotics</i> , 2013, 2, 66-91.	2.1	25
35	On the design of robust intelligent controllers with application to mobile robot tracking. , 2012, , .		4
36	A fuzzy logic based bio-inspired system for mobile robot navigation. , 2012, , .		7

#	ARTICLE	IF	CITATIONS
37	The autonomous robotic environmental sensor (ARES). Science and Technology for the Built Environment, 0, , 1-12.	0.8	1