Jihoon Seong

List of Publications by Year
in descending order

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74	973	567144 15	526166 27
papers	citations	h-index	g-index

74	74	74	885
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	HD Map Update for Autonomous Driving With Crowdsourced Data. IEEE Robotics and Automation Letters, 2021, 6, 1895-1901.	3.3	42
2	Trajectory Planner CDT-RRT* for Car-Like Mobile Robots toward Narrow and Cluttered Environments. Sensors, 2021, 21, 4828.	2.1	8
3	A Self-Training Approach-Based Traversability Analysis for Mobile Robots in Urban Environments. , 2021, , .		8
4	Human-Leg Detection in 3D Feature Space for a Person-Following Mobile Robot Using 2D LiDARs. International Journal of Precision Engineering and Manufacturing, 2020, 21, 1299-1307.	1.1	11
5	Practical Modeling of GNSS for Autonomous Vehicles in Urban Environments. Sensors, 2019, 19, 4236.	2.1	11
6	A Heuristic for Task Allocation and Routing of Heterogeneous Robots while Minimizing Maximum Travel Cost. , 2019, , .		7
7	Heuristics for Two Depot Heterogeneous Unmanned Vehicle Path Planning to Minimize Maximum Travel Cost. Sensors, 2019, 19, 2461.	2.1	6
8	Efficient path planning for multiple transportation robots under various loading conditions. International Journal of Advanced Robotic Systems, 2019, 16, 172988141983511.	1.3	5
9	Obstacle Avoidance of Two-Wheel Differential Robots Considering the Uncertainty of Robot Motion on the Basis of Encoder Odometry Information. Sensors, 2019, 19, 289.	2.1	17
10	Indoor Parking Localization Based on Dual Weighted Particle Filter. International Journal of Precision Engineering and Manufacturing, 2018, 19, 293-298.	1.1	8
11	Self-Diagnosis of Localization Status for Autonomous Mobile Robots. Sensors, 2018, 18, 3168.	2.1	9
12	A Heuristic for Path Planning of Multiple Heterogeneous Automated Guided Vehicles. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1765-1771.	1.1	17
13	Terrain Classification for Mobile Robots on the Basis of Support Vector Data Description. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1305-1315.	1.1	10
14	Robust Localization of Mobile Robots Considering Reliability of LiDAR Measurements. , 2018, , .		10
15	A heuristic for a heterogeneous automated guided vehicle routing problem. International Journal of Precision Engineering and Manufacturing, 2017, 18, 795-801.	1.1	25
16	Odometry calibration for car-like mobile robots. , 2017, , .		0
17	Trajectory planning for mobile robot with kinodynamic constraints. , 2017, , .		2
18	Design of joint module equipped with manually configurable reducer for gearing. , 2017, , .		0

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19	Accurate calibration of systematic errors for car-like mobile robots using experimental orientation errors. International Journal of Precision Engineering and Manufacturing, 2016, 17, 1113-1119.	1.1	17
20	Practical probabilistic trajectory planning scheme based on the Rapidly-Exploring Random Trees for two-wheeled mobile robots. International Journal of Precision Engineering and Manufacturing, 2016, 17, 591-596.	1.1	13
21	Hierarchical Sample-Based Joint Probabilistic Data Association Filter for Following Human Legs Using a Mobile Robot in a Cluttered Environment. IEEE Transactions on Human-Machine Systems, 2016, 46, 340-349.	2.5	24
22	Localization of a Mobile Robot Using a Laser Range Finder in a Glass-Walled Environment. IEEE Transactions on Industrial Electronics, 2016, 63, 3616-3627.	5.2	48
23	Preliminary research on robust leg-tracking indoor mobile robots by combining the Kinect and the laser range finder information. , 2015, , .		2
24	Kinodynamic Planner Dual-Tree RRT (DT-RRT) for Two-Wheeled Mobile Robots Using the Rapidly Exploring Random Tree. IEEE Transactions on Industrial Electronics, 2015, 62, 1080-1090.	5.2	101
25	Muscular activity analysis of haptic-based resistance training machine compared with dumbbell training. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1209-1213.	1.1	4
26	Curb feature based localization of a mobile robot in urban road environments. , 2015, , .		9
27	Global localization using distances between reflectors. , 2014, , .		0
28	Design of test track for accurate calibration of two wheel differential mobile robots. International Journal of Precision Engineering and Manufacturing, 2014, 15, 53-61.	1.1	10
29	Performance analysis of path planners for car-like vehicles toward automatic parking control. Intelligent Service Robotics, 2014, 7, 15-23.	1.6	12
30	Performance analysis of path planners for autonomous parking control. , 2014, , .		0
31	Localization of an outdoor mobile robot considering the uncertainty model of the road curb. , 2014, , .		0
32	Implementation of JPDAFs to track humans for a mobile robot with a Laser range finder. , 2013, , .		1
33	Motion control of indoor mobile robots for safe navigation in cluttered environment. , 2013, , .		2
34	Range sensor-based localization of mobile robots in semi-structured environments. , 2013, , .		1
35	Trajectory time scaling of a mobile robot to avoid dynamic obstacles on the basis of the INLVO. Advanced Robotics, 2013, 27, 1189-1198.	1.1	4
36	Localization of a patrol robot using curb feature in road environment. , 2013, , .		0

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37	Mobile robot localization using indistinguishable artificial landmarks. , 2013, , .		5
38	Autonomous Navigation of a Surveillance Robot in Harsh Outdoor Road Environments. Advances in Mechanical Engineering, 2013, 5, 837484.	0.8	1
39	Accurate calibration of two wheel differential mobile robots by using experimental heading errors. , 2012, , .		16
40	Coordination of Multiple Control Schemes for Mobile Robot Navigation on the Basis of the Generalized Stochastic Petri-Nets. Advanced Robotics, 2012, 26, 581-603.	1.1	1
41	The Detection and Following of Human Legs Through Inductive Approaches for a Mobile Robot With a Single Laser Range Finder. IEEE Transactions on Industrial Electronics, 2012, 59, 3156-3166.	5.2	102
42	Localization of outdoor mobile robots using road features. , 2011, , .		1
43	Comparative analysis of path planners for a car-like mobile robot in a cluttered environment. , 2011, , .		4
44	Detection and following of human legs using the SVDD (Support Vector Data Description) scheme for a mobile robot with a single Laser Range Finder. , 2011, , .		9
45	Human tracking of a mobile robot with an onboard LRF (Laser Range Finder) using human walking motion analysis. , 2011, , .		7
46	Reversing Control of a Car with a Trailer Using the Driver Assistance System. International Journal of Advanced Robotic Systems, 2011, 8, 23.	1.3	11
47	Design of Test Tracks for Odometry Calibration of Wheeled Mobile Robots. International Journal of Advanced Robotic Systems, 2011, 8, 56.	1.3	5
48	Accurate calibration of kinematic parameters for two wheel differential mobile robots. Journal of Mechanical Science and Technology, 2011, 25, 1603-1611.	0.7	34
49	Backward-motion control of a mobile robot with n passive off-hooked trailers. Journal of Mechanical Science and Technology, 2011, 25, 2895-2905.	0.7	35
50	Comparison of myocontrol and force control based on fittsâ€™ law model. International Journal of Precision Engineering and Manufacturing, 2011, 12, 211-217.	1.1	9
51	Observation Likelihood Model Design and Failure Recovery Scheme Toward Reliable Localization of Mobile Robots. International Journal of Advanced Robotic Systems, 2010, 7, 24.	1.3	21
52	Design of the Dual Offset Active Caster Wheel for Holonomic Omni-Directional Mobile Robots. International Journal of Advanced Robotic Systems, 2010, 7, 26.	1.3	21
53	Development of an autonomous outdoor patrol robot in private road environment. , 2010, , .		8
54	Design of navigation behaviors and the selection framework with Generalized Stochastic Petri Nets toward dependable navigation of a mobile robot. , 2010, , .		3

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55	Pushing motion control of n passive off-hooked trailers by a car-like mobile robot. , 2010, , .		3
56	Drivable road region detection using a single laser range finder for outdoor patrol robots. , 2010, , .		19
57	Reversing control of a car with a trailer using a Driver Assistance System. , 2010, , .		2
58	Experimental research of the navigation behavior selection of mobile robots using the Generalized Stochastic Petri-Nets. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 237-242.	0.0	0
59	Convergence analysis of kinematic parameter calibration for a Car-Like Mobile Robot. , 2009, , .		5
60	Safe Navigation of a Mobile Robot Considering Visibility of Environment. IEEE Transactions on Industrial Electronics, 2009, 56, 3941-3950.	5.2	69
61	Control architecture design of a multi-functional service robot using the GSPN (Generalized-Stochastic Petri-Nets). , 2008, , .		1
62	Motion planning for car-parking using the slice projection technique. , 2008, , .		5
63	Odometry calibration of a car-like mobile robot. , 2007, , .		4
64	Navigation Behavior Selection Using Generalized Stochastic Petri Nets for a Service Robot. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 494-503.	3.3	25
65	Safe navigation of a mobile robot using the visibility information. , 2007, , .		4
66	Design of a sensor model and semi-global localization of a mobile service robot. , 2006, , .		2
67	Development of the multi-functional indoor service robot PSR systems. Autonomous Robots, 2006, 22, 1-17.	3.2	27
68	Thinning-based Topological Exploration in Dynamic Environments. , 2006, , .		8
69	Car parking control using a trajectory tracking controller. , 2006, , .		24
70	Efficiency Improvement in Monte Carlo Localization through Topological Information. , 2006, , .		23
71	2P2-E21 High speed navigation of a mobile robot based on robot's experiences. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2006, 2006, _2P2-E21_1-_2P2-E21_3.	0.0	1
72	Experimental research of navigation behavior selection using generalized stochastic Petri nets (GSPN) for a tour-guide robot. , 2005, , .		3

#	Article	IF	Citations
73	A Selection Framework of Multiple Navigation Primitives Using Generalized Stochastic Petri Nets. , 0, , .		6
74	Experimental Research of a Passive Multiple Trailer System for Backward Motion Control. , 0, , .		5