

Jungwook Han

List of Publications by Year in descending order

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71
papers

928
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516710

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501196

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71
all docs

71
docs citations

71
times ranked

808
citing authors

#	ARTICLE	IF	CITATIONS
1	DOTS: A Propagation Delay-Aware Opportunistic MAC Protocol for Mobile Underwater Networks. IEEE Transactions on Mobile Computing, 2014, 13, 766-782.	5.8	87
2	Path optimization for marine vehicles in ocean currents using reinforcement learning. Journal of Marine Science and Technology, 2016, 21, 334-343.	2.9	79
3	Integral sliding mode controller for precise manoeuvring of autonomous underwater vehicle in the presence of unknown environmental disturbances. International Journal of Control, 2015, 88, 2055-2065.	1.9	69
4	Efficient COLREG-Compliant Collision Avoidance in Multi-Ship Encounter Situations. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1899-1911.	8.0	48
5	Precision navigation and mapping under bridges with an unmanned surface vehicle. Autonomous Robots, 2015, 38, 349-362.	4.8	45
6	Predictive Evaluation of Ship Collision Risk Using the Concept of Probability Flow. IEEE Journal of Oceanic Engineering, 2017, 42, 836-845.	3.8	44
7	Coastal SLAM With Marine Radar for USV Operation in GPS-Restricted Situations. IEEE Journal of Oceanic Engineering, 2019, 44, 300-309.	3.8	43
8	In-water visual ship hull inspection using a hover-capable underwater vehicle with stereo vision. Journal of Field Robotics, 2019, 36, 531-546.	6.0	35
9	A Comparison of Nonlinear Filter Algorithms for Terrain-referenced Underwater Navigation. International Journal of Control, Automation and Systems, 2018, 16, 2977-2989.	2.7	29
10	Precise Localization and Mapping in Indoor Parking Structures via Parameterized SLAM. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4415-4426.	8.0	28
11	Passive target tracking of marine traffic ships using onboard monocular camera for unmanned surface vessel. Electronics Letters, 2015, 51, 987-989.	1.0	22
12	A robust loop-closure method for visual SLAM in unstructured seafloor environments. Autonomous Robots, 2016, 40, 1095-1109.	4.8	22
13	Development of an Unmanned Surface Vehicle System for the 2014 Maritime RobotX Challenge. Journal of Field Robotics, 2017, 34, 644-665.	6.0	22
14	Three-dimensional Visual Mapping of Underwater Ship Hull Surface Using Piecewise-planar SLAM. International Journal of Control, Automation and Systems, 2020, 18, 564-574.	2.7	22
15	Persistent automatic tracking of multiple surface vessels by fusing radar and lidar. , 2017, , .		19
16	GPS-less Coastal Navigation using Marine Radar for USV Operation. IFAC-PapersOnLine, 2016, 49, 598-603.	0.9	17
17	Robust Loop Closure Method for Multi-Robot Map Fusion by Integration of Consistency and Data Similarity. IEEE Robotics and Automation Letters, 2020, 5, 5701-5708.	5.1	16
18	Intent inference of ship maneuvering for automatic ship collision avoidance. IFAC-PapersOnLine, 2018, 51, 384-388.	0.9	15

#	ARTICLE	IF	CITATIONS
19	Task space-based control of an underwater robotic system for position keeping in ocean currents. <i>Advanced Robotics</i> , 2014, 28, 1109-1119.	1.8	14
20	Sensor fusion of two sonar devices for underwater 3D mapping with an AUV. <i>Autonomous Robots</i> , 2021, 45, 543.	4.8	14
21	Probabilistic quantification of ship collision risk considering trajectory uncertainties. <i>IFAC-PapersOnLine</i> , 2016, 49, 109-114.	0.9	12
22	Lidar-guided autonomous landing of an aerial vehicle on a ground vehicle. , 2017, , .		12
23	Three-Dimensional Reconstruction of a Marine Floating Structure With an Unmanned Surface Vessel. <i>IEEE Journal of Oceanic Engineering</i> , 2019, 44, 984-996.	3.8	12
24	Robust Data Association for Multi-Object Detection in Maritime Environments Using Camera and Radar Measurements. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5865-5872.	5.1	11
25	Coordinated weathervaning control of two surface vessels in a tandem configuration. <i>Ocean Engineering</i> , 2017, 130, 142-155.	4.3	10
26	Selective image registration for efficient visual SLAM on planar surface structures in underwater environment. <i>Autonomous Robots</i> , 2019, 43, 1665-1679.	4.8	10
27	Collaborative Mission and Route Planning of Multi-vehicle Systems for Autonomous Search in Marine Environment. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 546-555.	2.7	10
28	Intent Inference of Ship Collision Avoidance Behavior Under Maritime Traffic Rules. <i>IEEE Access</i> , 2021, 9, 5598-5608.	4.2	10
29	Semantic segmentation of urban scenes with a location prior map using lidar measurements. , 2017, , .		8
30	Model-referenced pose estimation using monocular vision for autonomous intervention tasks. <i>Autonomous Robots</i> , 2020, 44, 205-216.	4.8	8
31	Navigation of an unmanned surface vessel under bridges. , 2013, , .		7
32	Disturbance observer based terminal sliding mode control of an underwater manipulator. , 2014, , .		7
33	Fast Underwater Image Mosaicing through Submapping. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017, 85, 167-187.	3.4	7
34	Enhanced Target Ship Tracking With Geometric Parameter Estimation for Unmanned Surface Vehicles. <i>IEEE Access</i> , 2021, 9, 39864-39872.	4.2	7
35	Automatic Detection of Nearby Ships using Monocular Vision for Autonomous Navigation of USVs. <i>Journal of Institute of Control, Robotics and Systems</i> , 2017, 23, 416-423.	0.2	7
36	An approach towards online bathymetric SLAM. , 2011, , .		6

#	ARTICLE	IF	CITATIONS
37	Collision probability assessment between surface ships considering maneuver intentions. , 2017, , .		6
38	Semantic Segmentation of Marine Radar Images using Convolutional Neural Networks. , 2019, , .		6
39	Intent Inference-Based Ship Collision Avoidance in Encounters With Rule-Violating Vessels. IEEE Robotics and Automation Letters, 2022, 7, 518-525.	5.1	6
40	Bearing-Constrained Formation Tracking Control of Nonholonomic Agents Without Inter-Agent Communication. , 2022, 6, 2401-2406.		6
41	A null space control of an underactuated underwater vehicle-manipulator system under ocean currents. , 2012, , .		5
42	Fusing Lidar Data and Aerial Imagery with Perspective Correction for Precise Localization in Urban Canyons. , 2019, , .		5
43	Three-dimensional reconstruction of bridge structures above the waterline with an unmanned surface vehicle. , 2014, , .		4
44	Nonlinear filtering for terrain-referenced underwater navigation with an acoustic altimeter. , 2014, , .		4
45	Development of USV Autonomy for the 2014 Maritime RobotX Challenge. IFAC-PapersOnLine, 2015, 48, 13-18.	0.9	4
46	Relative navigation with passive underwater acoustic sensing. , 2015, , .		4
47	Efficient visual SLAM using selective image registration for autonomous inspection of underwater structures. , 2016, , .		4
48	Three-dimensional reconstruction of a semi-submersible offshore platform with an unmanned surface vehicle. , 2016, , .		4
49	Online underwater optical mapping for trajectories with gaps. Intelligent Service Robotics, 2016, 9, 217-229.	2.6	4
50	Underwater visual SLAM with loop-closure using image-to-image link recovery. , 2015, , .		3
51	Constrained motion planning for robot manipulators using local geometric information. Advanced Robotics, 2015, 29, 1611-1623.	1.8	3
52	High-precision underwater navigation using model-referenced pose estimation with monocular vision. , 2016, , .		3
53	Semantic segmentation of urban scenes with enhanced spatial contexts. , 2016, , .		3
54	Track Initiation and Target Tracking Filter Using LiDAR for Ship Tracking in Marine Environment. Journal of Institute of Control, Robotics and Systems, 2016, 22, 133-138.	0.2	3

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55	Robust Underwater Localization Using Acoustic Image Alignment for Autonomous Intervention Systems. IEEE Access, 2022, 10, 58447-58457.	4.2	3
56	Beaconless navigation for mobile robots using grid line pattern. , 2013, , .		2
57	Autonomous collision avoidance for unmanned surface ships using onboard monocular vision. , 2015, , .		2
58	Mobile robot navigation using grid line patterns via probabilistic measurement modeling. Intelligent Service Robotics, 2016, 9, 141-151.	2.6	2
59	Panel-based bathymetric SLAM with a multibeam echosounder. , 2017, , .		2
60	A quadratic-cost dual control-based approach for optimal trajectory planning under uncertainty. International Journal of Control, Automation and Systems, 2017, 15, 2253-2261.	2.7	2
61	Vehicle Localization in Urban Environment Using a 2D Online Map with Building Outlines. , 2018, , .		2
62	Visual SLAM with keyframe selection for underwater structure inspection using an autonomous underwater vehicle. , 2016, , .		1
63	Nonlinear Model Predictive Control of an Autonomous Underwater Vehicle for Terrain Profile Tracking. , 2019, , .		1
64	An inviscid model of vortex shedding flow around an oscillating flat plate. , 2012, , .		0
65	A nonlinear task space tracking control of an underactuated underwater vehicle. , 2012, , .		0
66	On data assimilation in a pseudo-spectral wave prediction model using a Kalman filter. , 2012, , .		0
67	Match elimination using cycle basis in underwater optical mapping. , 2013, , .		0
68	Planar SLAM under a semi-submersible offshore platform with an unmanned surface vehicle. , 2015, , .		0
69	Robust PID control for position tracking of an underwater manipulator. , 2015, , .		0
70	Mismatched image identification using histogram of loop closure error for feature-based optical mapping. International Journal of Intelligent Robotics and Applications, 2019, 3, 196-206.	2.8	0
71	Underwater localization using an optic and acoustic stereo imaging system for autonomous intervention robots. Electronics Letters, 2022, 58, 597-599.	1.0	0