

Jinwhan Kim

List of Publications by Year in descending order

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133
papers

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citations

304743

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133
all docs

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docs citations

133
times ranked

1370
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient COLREG-Compliant Collision Avoidance in Multi-Ship Encounter Situations. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1899-1911.	8.0	48
2	Intent Inference-Based Ship Collision Avoidance in Encounters With Rule-Violating Vessels. IEEE Robotics and Automation Letters, 2022, 7, 518-525.	5.1	6
3	Topographic SLAM Using a Single Terrain Altimeter in GNSS-Restricted Environment. IEEE Access, 2022, 10, 10806-10815.	4.2	2
4	Ambiguity Resolution Between Constant Velocity and Coordinated Turn Models for Multimodel Target Tracking. , 2022, 6, 1-4.		1
5	Bearing-Constrained Formation Tracking Control of Nonholonomic Agents Without Inter-Agent Communication. , 2022, 6, 2401-2406.		6
6	Mission Planning for Underwater Survey with Autonomous Marine Vehicles. Journal of Ocean Engineering and Technology, 2022, 36, 41-49.	1.2	2
7	Robust Underwater Localization Using Acoustic Image Alignment for Autonomous Intervention Systems. IEEE Access, 2022, 10, 58447-58457.	4.2	3
8	Underwater localization using an optic and acoustic stereo imaging system for autonomous intervention robots. Electronics Letters, 2022, 58, 597-599.	1.0	0
9	Icevaning control of an Arctic offshore vessel and its experimental validation. International Journal of Naval Architecture and Ocean Engineering, 2021, 13, 208-222.	2.3	2
10	Enhanced Target Ship Tracking With Geometric Parameter Estimation for Unmanned Surface Vehicles. IEEE Access, 2021, 9, 39864-39872.	4.2	7
11	Automatic Ship Collision Avoidance in Narrow Channels through Curvilinear Coordinate Transformation. Journal of the Society of Naval Architects of Korea, 2021, 58, 191-197.	0.5	1
12	Sensor fusion of two sonar devices for underwater 3D mapping with an AUV. Autonomous Robots, 2021, 45, 543.	4.8	14
13	Intent Inference of Ship Collision Avoidance Behavior Under Maritime Traffic Rules. IEEE Access, 2021, 9, 5598-5608.	4.2	10
14	Robust Data Association for Multi-Object Detection in Maritime Environments Using Camera and Radar Measurements. IEEE Robotics and Automation Letters, 2021, 6, 5865-5872.	5.1	11
15	COLREG-compliant ship collision avoidance in narrow channels using curvilinear coordinates. IFAC-PapersOnLine, 2021, 54, 24-29.	0.9	1
16	Path Optimization for Cooperative Mapping Using Multiple Robots with Limited Sensing Capabilities. , 2021, , .		0
17	Model-referenced pose estimation using monocular vision for autonomous intervention tasks. Autonomous Robots, 2020, 44, 205-216.	4.8	8
18	AUV-Based Multi-View Scanning Method for 3-D Reconstruction of Underwater Object Using Forward Scan Sonar. IEEE Sensors Journal, 2020, 20, 1592-1606.	4.7	17

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19	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
20	Guest Editorial: Marine Robotics and Control Systems. International Journal of Control, Automation and Systems, 2020, 18, 521-522.	2.7	0
21	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
22	Collaborative Mission and Route Planning of Multi-vehicle Systems for Autonomous Search in Marine Environment. International Journal of Control, Automation and Systems, 2020, 18, 546-555.	2.7	10
23	Autonomous collision detection and avoidance for ARAGON USV: Development and field tests. Journal of Field Robotics, 2020, 37, 987-1002.	6.0	64
24	Semantic Segmentation of Urban Scenes Using Spatial Contexts. IEEE Access, 2020, 8, 55254-55268.	4.2	0
25	Probabilistic Intent Inference for Predicting the Compliance with COLREGs between Two Surface Ships. IFAC-PapersOnLine, 2020, 53, 14595-14599.	0.9	0
26	Semantic Segmentation of Marine Radar Images using Convolutional Neural Networks. , 2019, , .		6
27	Nonlinear Model Predictive Control of an Autonomous Underwater Vehicle for Terrain Profile Tracking. , 2019, , .		1
28	Dynamic Grid Adaptation for Panel-Based Bathymetric SLAM. , 2019, , .		3
29	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
30	Automatic waterline detection and 3D reconstruction in model ship tests using stereo vision. Electronics Letters, 2019, 55, 527-529.	1.0	4
31	Fusing Lidar Data and Aerial Imagery with Perspective Correction for Precise Localization in Urban Canyons. , 2019, , .		5
32	Robust Loop Closure Selection for Multi-robot Mapping Under Perceptual Aliasing. , 2019, , .		0
33	Efficient fleet size optimization for task allocation of multiple unmanned vehicles. IFAC-PapersOnLine, 2019, 52, 297-301.	0.9	0
34	Experimental validation of a velocity obstacle based collision avoidance algorithm for unmanned surface vehicles. IFAC-PapersOnLine, 2019, 52, 329-334.	0.9	21
35	Three-Dimensional Visual Mapping of Underwater Ship Hull Surface using View-based Piecewise-Planar Measurements. IFAC-PapersOnLine, 2019, 52, 384-389.	0.9	5
36	Weighted Grid Partitioning for Panel-Based Bathymetric SLAM. , 2019, , .		1

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37	Three-Dimensional Reconstruction of a Marine Floating Structure With an Unmanned Surface Vessel. IEEE Journal of Oceanic Engineering, 2019, 44, 984-996.	3.8	12
38	Precise Localization and Mapping in Indoor Parking Structures via Parameterized SLAM. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4415-4426.	8.0	28
39	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
40	Coastal SLAM With Marine Radar for USV Operation in GPS-Restricted Situations. IEEE Journal of Oceanic Engineering, 2019, 44, 300-309.	3.8	43
41	Selective image registration for efficient visual SLAM on planar surface structures in underwater environment. Autonomous Robots, 2019, 43, 1665-1679.	4.8	10
42	Fleet size optimization and collaborative route planning for multi-vehicle task allocation. , 2019, , .		5
43	Probabilistic modeling of ship powering performance using full-scale operational data. Applied Ocean Research, 2019, 82, 1-9.	4.1	15
44	Automatic target tracking with time-delayed measurements for unmanned surface vehicles. , 2019, , .		3
45	Automatic Ship Collision Avoidance Algorithm based on Probabilistic Velocity Obstacle with Consideration of COLREGs. Journal of the Society of Naval Architects of Korea, 2019, 56, 75-81.	0.5	5
46	Behavior-based Control Considering the Interaction Between a Human Operator and an Autonomous Surface Vehicle. Journal of Ocean Engineering and Technology, 2019, 33, 620-626.	1.2	5
47	Trajectory Design of Underwater Gliders for Maximum Advance Speed in Finite-Depth Water. Journal of Guidance, Control, and Dynamics, 2018, 41, 742-750.	2.8	15
48	Pose Estimation Considering an Uncertainty Model of Stereo Vision for In-Water Ship Hull Inspection. IFAC-PapersOnLine, 2018, 51, 400-405.	0.9	8
49	Intent inference of ship maneuvering for automatic ship collision avoidance. IFAC-PapersOnLine, 2018, 51, 384-388.	0.9	15
50	Vehicle Localization in Urban Environment Using a 2D Online Map with Building Outlines. , 2018, , .		2
51	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
52	Ship Route Optimization Considering On-Time Arrival Probability Under Environmental Uncertainty. , 2018, , .		2
53	Ice Load Generation in Time Domain Based on Ice Load Spectrum for Arctic Offshore Structures. Journal of Ocean Engineering and Technology, 2018, 32, 411-418.	1.2	5
54	Predictive Evaluation of Ship Collision Risk Using the Concept of Probability Flow. IEEE Journal of Oceanic Engineering, 2017, 42, 836-845.	3.8	44

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55	Underwater pose estimation relative to planar hull surface using stereo vision. , 2017, , .		0
56	3D reconstruction of underwater objects using a wide-beam imaging sonar. , 2017, , .		9
57	Panel-based bathymetric SLAM with a multibeam echosounder. , 2017, , .		2
58	Coordinated weathervaning control of two surface vessels in a tandem configuration. Ocean Engineering, 2017, 130, 142-155.	4.3	10
59	Efficient multi-agent task allocation for collaborative route planning with multiple unmanned vehicles. IFAC-PapersOnLine, 2017, 50, 3580-3585.	0.9	13
60	Scalar field reconstruction based on the Gaussian process and adaptive sampling. , 2017, , .		2
61	Lidar-guided autonomous landing of an aerial vehicle on a ground vehicle. , 2017, , .		12
62	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
63	Fast Underwater Image Mosaicing through Submapping. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 85, 167-187.	3.4	7
64	Development of an Unmanned Surface Vehicle System for the 2014 Maritime RobotX Challenge. Journal of Field Robotics, 2017, 34, 644-665.	6.0	22
65	Nano carbon/fluoroelastomer composite bipolar plate for a vanadium redox flow battery (VRFB). Composite Structures, 2017, 159, 220-227.	5.8	38
66	Powering performance analysis of full-scale ships under environmental disturbances. IFAC-PapersOnLine, 2017, 50, 2323-2328.	0.9	8
67	Persistent automatic tracking of multiple surface vessels by fusing radar and lidar. , 2017, , .		19
68	Collision probability assessment between surface ships considering maneuver intentions. , 2017, , .		6
69	Semantic segmentation of urban scenes with a location prior map using lidar measurements. , 2017, , .		8
70	Semantic Segmentation of Urban Scenes Using Location Prior Information. The Journal of Korea Robotics Society, 2017, 12, 249-257.	0.4	0
71	Efficient visual SLAM using selective image registration for autonomous inspection of underwater structures. , 2016, , .		4
72	Probabilistic quantification of ship collision risk considering trajectory uncertainties. IFAC-PapersOnLine, 2016, 49, 109-114.	0.9	12

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73	GPS-less Coastal Navigation using Marine Radar for USV Operation. IFAC-PapersOnLine, 2016, 49, 598-603.	0.9	17
74	Shape optimization of the corrugated composite bipolar plate (CCBP) for vanadium redox flow batteries (VRFBs). Composite Structures, 2016, 158, 333-339.	5.8	10
75	Weather-optimal control of a dynamic positioning vessel using backstepping: simulation and model experiment. IFAC-PapersOnLine, 2016, 49, 232-238.	0.9	6
76	Three-dimensional reconstruction of a semi-submersible offshore platform with an unmanned surface vehicle. , 2016, , .		4
77	Semantic segmentation of urban scenes with enhanced spatial contexts. , 2016, , .		3
78	Visual SLAM with keyframe selection for underwater structure inspection using an autonomous underwater vehicle. , 2016, , .		1
79	Path optimization for marine vehicles in ocean currents using reinforcement learning. Journal of Marine Science and Technology, 2016, 21, 334-343.	2.9	79
80	Mobile robot navigation using grid line patterns via probabilistic measurement modeling. Intelligent Service Robotics, 2016, 9, 141-151.	2.6	2
81	Online underwater optical mapping for trajectories with gaps. Intelligent Service Robotics, 2016, 9, 217-229.	2.6	4
82	A microwave foaming method for fabricating glass fiber reinforced phenolic foam. Composite Structures, 2016, 152, 239-246.	5.8	26
83	A robust loop-closure method for visual SLAM in unstructured seafloor environments. Autonomous Robots, 2016, 40, 1095-1109.	4.8	22
84	Longitudinal trajectory optimization of an underwater glider in finite depth water. , 2016, , .		2
85	Development of a fluoroelastomer/glass fiber composite flow frame for a vanadium redox flow battery (VRFB). Composite Structures, 2016, 145, 113-118.	5.8	9
86	An Explicit Data Assimilation Scheme for a Nonlinear Wave Prediction Model Based on a Pseudo-Spectral Method. IEEE Journal of Oceanic Engineering, 2016, 41, 112-122.	3.8	11
87	Autonomous collision avoidance for unmanned surface ships using onboard monocular vision. , 2015, , .		2
88	Relative navigation with passive underwater acoustic sensing. , 2015, , .		4
89	Optimization of fish-like locomotion using hierarchical reinforcement learning. , 2015, , .		2
90	Underwater visual SLAM with loop-closure using image-to-image link recovery. , 2015, , .		3

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91	Autonomous detection and tracking of a surface ship using onboard monocular vision. , 2015, , .		7
92	A robust task space position tracking control of an underwater vehicle manipulator system. , 2015, , .		0
93	Constrained motion planning for robot manipulators using local geometric information. <i>Advanced Robotics</i> , 2015, 29, 1611-1623.	1.8	3
94	Planar SLAM under a semi-submersible offshore platform with an unmanned surface vehicle. , 2015, , .		0
95	Integral sliding mode controller for precise manoeuvring of autonomous underwater vehicle in the presence of unknown environmental disturbances. <i>International Journal of Control</i> , 2015, 88, 2055-2065.	1.9	69
96	Passive target tracking of marine traffic ships using onboard monocular camera for unmanned surface vessel. <i>Electronics Letters</i> , 2015, 51, 987-989.	1.0	22
97	Precision navigation and mapping under bridges with an unmanned surface vehicle. <i>Autonomous Robots</i> , 2015, 38, 349-362.	4.8	45
98	Coordinated motion control in task space of an autonomous underwater vehicleâ€™manipulator system. <i>Ocean Engineering</i> , 2015, 104, 155-167.	4.3	54
99	Development of the light weight carbon composite tie bar. <i>Composite Structures</i> , 2015, 134, 124-131.	5.8	7
100	Robust PID control for position tracking of an underwater manipulator. , 2015, , .		0
101	Durability of graphite coated carbon composite bipolar plates for vanadium redox flow batteries. <i>Composite Structures</i> , 2015, 134, 106-113.	5.8	21
102	Disturbance observer based terminal sliding mode control of an underwater manipulator. , 2014, , .		7
103	Towards automatic identification of mismatched image pairs through loop constraints. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
104	Graph theory approach for match reduction in image mosaicing. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 773.	1.5	4
105	Three-dimensional reconstruction of bridge structures above the waterline with an unmanned surface vehicle. , 2014, , .		4
106	Efficient image mosaicing for multi-robot visual underwater mapping. <i>Pattern Recognition Letters</i> , 2014, 46, 20-26.	4.2	28
107	DOTS: A Propagation Delay-Aware Opportunistic MAC Protocol for Mobile Underwater Networks. <i>IEEE Transactions on Mobile Computing</i> , 2014, 13, 766-782.	5.8	87
108	Robust Adaptive Tracking Control of Autonomous Underwater Vehicle-Manipulator Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014, 136, .	1.6	14

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109	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
110	Nonlinear filtering for terrain-referenced underwater navigation with an acoustic altimeter. , 2014, , .		4
111	Match elimination using cycle basis in underwater optical mapping. , 2013, , .		0
112	Armless underwater manipulation using a small deployable agent vehicle connected by a smart cable. <i>Ocean Engineering</i> , 2013, 70, 149-159.	4.3	21
113	Beaconless navigation for mobile robots using grid line pattern. , 2013, , .		2
114	Navigation of an unmanned surface vessel under bridges. , 2013, , .		7
115	Terrain-referenced Underwater Navigation using Rao-Blackwellized Particle Filter. <i>Journal of Institute of Control, Robotics and Systems</i> , 2013, 19, 682-687.	0.2	6
116	A null space control of an underactuated underwater vehicle-manipulator system under ocean currents. , 2012, , .		5
117	An inviscid model of vortex shedding flow around an oscillating flat plate. , 2012, , .		0
118	A nonlinear task space tracking control of an underactuated underwater vehicle. , 2012, , .		0
119	On data assimilation in a pseudo-spectral wave prediction model using a Kalman filter. , 2012, , .		0
120	Indirect adaptive control of an autonomous underwater vehicle-manipulator system for underwater manipulation tasks. <i>Ocean Engineering</i> , 2012, 54, 233-243.	4.3	106
121	Comparison Between Nonlinear Filtering Techniques for Spiraling Ballistic Missile State Estimation. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2012, 48, 313-328.	4.7	51
122	Modeling Air-Traffic Service Time Uncertainties for Queuing Network Analysis. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2012, 48, 525-541.	4.7	7
123	An approach towards online bathymetric SLAM. , 2011, , .		6
124	Onboard Estimation of Impaired Aircraft Performance Envelope. , 2011, , .		4
125	Particle Filter for Ballistic Target Tracking with Glint Noise. , 2010, , .		2
126	A Framework for Stochastic Air Traffic Flow Modeling and Analysis. , 2010, , .		9

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127	Particle Filter for Ballistic Target Tracking with Glint Noise. Journal of Guidance, Control, and Dynamics, 2010, 33, 1918-1921.	2.8	31
128	Motion Models for use with the Maneuvering Ballistic Missile Tracking Estimators. , 2010, , .		12
129	Tracking of Spiraling Reentry Vehicles with Varying Frequency using the Unscented Kalman Filter. , 2010, , .		3
130	Rapid Estimation of Impaired-Aircraft Aerodynamic Parameters. Journal of Aircraft, 2010, 47, 1216-1228.	2.4	10
131	Feedback Dual Controller Design and Its Application to Monocular Vision-Based Docking. Journal of Guidance, Control, and Dynamics, 2009, 32, 1134-1142.	2.8	5
132	Comparison Between Three Spiraling Ballistic Missile State Estimators. , 2008, , .		14
133	Trajectory Uncertainty Modeling for Queueing Analysis of the NAS. , 2008, , .		6