

Jonghoek Kim

List of Publications by Year in descending order

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papers

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623734

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#	ARTICLE	IF	CITATIONS
1	Cooperative Localization and Unknown Currents Estimation Using Multiple Autonomous Underwater Vehicles. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 2365-2371.	5.1	50
2	A provably complete exploration strategy by constructing Voronoi diagrams. <i>Autonomous Robots</i> , 2010, 29, 367-380.	4.8	31
3	Curve Tracking Control for Autonomous Vehicles with Rigidly Mounted Range Sensors. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2009, 56, 177-197.	3.4	30
4	Bearings-only target motion analysis of a highly manoeuvring target. <i>IET Radar, Sonar and Navigation</i> , 2017, 11, 1011-1019.	1.8	27
5	Multi-robot rendezvous based on bearing-aided hierarchical tracking of network topology. <i>Ad Hoc Networks</i> , 2019, 86, 131-143.	5.5	26
6	Cooperative Exploration and Networking While Preserving Collision Avoidance. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 4038-4048.	9.5	24
7	Motion control of multiple autonomous ships to approach a target without being detected. <i>International Journal of Advanced Robotic Systems</i> , 2018, 15, 172988141876318.	2.1	24
8	Cooperative exploration and protection of a workspace assisted by information networks. <i>Annals of Mathematics and Artificial Intelligence</i> , 2014, 70, 203-220.	1.3	23
9	Stealth path planning for a high speed torpedo-shaped autonomous underwater vehicle to approach a target ship. <i>Cyber-Physical Systems</i> , 2018, 4, 1-16.	2.0	20
10	Perpendicular Parking of Car-like Robots Allowing a Cusp on the Path. <i>IEEE Access</i> , 2020, , 1-1.	4.2	19
11	Control laws to avoid collision with three dimensional obstacles using sensors. <i>Ocean Engineering</i> , 2019, 172, 342-349.	4.3	18
12	Multipoint Rendezvous in Multirobot Systems. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 310-323.	9.5	17
13	Target Following and Close Monitoring Using an Unmanned Surface Vehicle. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 4233-4242.	9.3	17
14	Capturing intruders based on Voronoi diagrams assisted by information networks. <i>International Journal of Advanced Robotic Systems</i> , 2017, 14, 172988141668269.	2.1	15
15	Maneuvering target tracking of underwater autonomous vehicles based on bearing-only measurements assisted by inequality constraints. <i>Ocean Engineering</i> , 2019, 189, 106404.	4.3	14
16	Three-dimensional discrete-time controller to intercept a targeted UAV using a capture net towed by multiple aerial robots. <i>IET Radar, Sonar and Navigation</i> , 2019, 13, 682-688.	1.8	14
17	Obstacle information aided target tracking algorithms for angle-only tracking of a highly maneuverable target in three dimensions. <i>IET Radar, Sonar and Navigation</i> , 2019, 13, 1074-1080.	1.8	12
18	Hybrid TOA-DOA techniques for maneuvering underwater target tracking using the sensor nodes on the sea surface. <i>Ocean Engineering</i> , 2021, 242, 110110.	4.3	12

#	ARTICLE	IF	CITATIONS
19	Simultaneous Cooperative Exploration and Networking Based on Voronoi Diagrams. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1-6.	0.4	10
20	Workspace exploration and protection with multiple robots assisted by sensor networks. International Journal of Advanced Robotic Systems, 2018, 15, 172988141879217.	2.1	10
21	Three-dimensional multi-robot control to chase a target while not being observed. International Journal of Advanced Robotic Systems, 2019, 16, 172988141982966.	2.1	10
22	Non-line-of-sight error mitigating algorithms for transmitter localization based on hybrid TOA/RSSI measurements. Wireless Networks, 2020, 26, 3629-3635.	3.0	10
23	Multirobot Exploration While Building Power-Efficient Sensor Networks in Three Dimensions. IEEE Transactions on Cybernetics, 2019, 49, 2771-2778.	9.5	9
24	Fast non-line-of-sight receivers conjecturing method in TDOA localisation using obstacle information. IET Radar, Sonar and Navigation, 2019, 13, 347-351.	1.8	9
25	Truck Platoon Control Considering Heterogeneous Vehicles. Applied Sciences (Switzerland), 2020, 10, 5067.	2.5	9
26	Controllers to Chase a High-Speed Evader Using a Pursuer with Variable Speed. Applied Sciences (Switzerland), 2018, 8, 1976.	2.5	8
27	Three dimensional tracking of a maneuvering emitter utilizing doppler-bearing measurements of a constant velocity observer. Signal Processing, 2021, 189, 108246.	3.7	8
28	Observer manoeuvre control to track multiple targets considering Doppler-bearing measurements in threat environments. IET Radar, Sonar and Navigation, 2019, 13, 2158-2165.	1.8	8
29	Cooperative localisation for deep-sea exploration using multiple unmanned underwater vehicles. IET Radar, Sonar and Navigation, 2020, 14, 1244-1248.	1.8	8
30	Distributed Rendezvous of Heterogeneous Robots with Motion-Based Power Level Estimation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 1417-1427.	3.4	7
31	Tracking Controllers to Chase a Target Using Multiple Autonomous Underwater Vehicles Measuring the Sound Emitted From the Target. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4579-4587.	9.3	7
32	Constructing 3D Underwater Sensor Networks without Sensing Holes Utilizing Heterogeneous Underwater Robots. Applied Sciences (Switzerland), 2021, 11, 4293.	2.5	7
33	Path plan strategy of an underwater robot to approach a moving emitter while maximising sound intensity measurements. IET Radar, Sonar and Navigation, 2019, 13, 795-801.	1.8	7
34	Intruder capturing game on a topological map assisted by information networks. , 2011, , .		6
35	Boundary Tracking Control for Autonomous Vehicles with Rigidly Mounted Range Sensors. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 1041-1048.	3.4	6
36	Tracking a manoeuvring target while mitigating NLOS errors in TDOA measurements. IET Radar, Sonar and Navigation, 2020, 14, 495-502.	1.8	6

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37	Three dimensional distributed rendezvous in spherical underwater robots considering power consumption. <i>Ocean Engineering</i> , 2020, 199, 107050.	4.3	6
38	3D path planner of an autonomous underwater vehicle to track an emitter using frequency and azimuthâ€“elevation angle measurements. <i>IET Radar, Sonar and Navigation</i> , 2020, 14, 1236-1243.	1.8	6
39	Three Dimensional Formation Control to Pursue an Underwater Evader Utilizing Underwater Robots Measuring the Sound Generated From the Evader. <i>IEEE Access</i> , 2019, 7, 150720-150728.	4.2	5
40	Fast Path Planning of Autonomous Vehicles in 3D Environments. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4014.	2.5	5
41	Locating an Underwater Target Using Angle-Only Measurements of Heterogeneous Sonobuoys Sensors with Low Accuracy. <i>Sensors</i> , 2022, 22, 3914.	3.8	5
42	An exploration strategy by constructing Voronoi diagrams with provable completeness. , 2009, , .		4
43	Multi-robot global sonar survey in the presence of strong currents. <i>Ocean Engineering</i> , 2019, 188, 106316.	4.3	4
44	Asymptotic Boundary Shrink Control With Multirobot Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 591-605.	9.3	4
45	Direction of Arrival Estimation Using Four Isotropic Receivers. <i>IEEE Instrumentation and Measurement Magazine</i> , 2021, 24, 77-81.	1.6	4
46	Time-efficient path planning using two virtual robots. <i>International Journal of Advanced Robotic Systems</i> , 2019, 16, 172988141988674.	2.1	3
47	Optimal motion controllers for an unmanned surface vehicle to track a maneuvering underwater target based on coarse range-bearing measurements. <i>Ocean Engineering</i> , 2020, 216, 107973.	4.3	3
48	Autonomous Underwater Vehicle Localization Using Sound Measurements of Passing Ships. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 9139.	2.5	3
49	Inequality constrained Kalman filter for Bearing-Only Target Motion Analysis. , 2015, , .		2
50	Intruder capture algorithms considering visible intruders. <i>International Journal of Advanced Robotic Systems</i> , 2019, 16, 172988141984673.	2.1	2
51	Underwater surface scan utilizing an unmanned underwater vehicle with sampled range information. <i>Ocean Engineering</i> , 2020, 207, 107345.	4.3	2
52	Coverage control of multiple robots in cluttered threeâ€“dimensional environments. <i>IET Radar, Sonar and Navigation</i> , 2021, 15, 1016-1029.	1.8	2
53	Topological Map Building with Multiple Agents Having Abilities of Dropping Indexed Markers. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021, 103, 1.	3.4	2
54	Filter reâ€“start strategy for angleâ€“only tracking of a highly manoeuvrable target considering the target's destination information. <i>IET Radar, Sonar and Navigation</i> , 2020, 14, 935-943.	1.8	2

#	ARTICLE	IF	CITATIONS
55	Cooperative localization and control of multiple heterogeneous robots using a string formation. Asian Journal of Control, 2023, 25, 794-806.	3.0	2
56	Fast Route Planner Considering Terrain Information. Sensors, 2022, 22, 4518.	3.8	2
57	Battery Level Estimation of Mobile Agents under Communication Constraints. , 2010, , .		1
58	Observer motion controls for multiple targets considering Doppler-bearing measurements. , 2016, , .		1
59	Autonomous Balloon Controls for Protection against Projectiles with Known Destinations. Applied Sciences (Switzerland), 2021, 11, 4077.	2.5	1
60	Autonomous rover guidance and localization by measuring the peak of a tall landmark. Asian Journal of Control, 0, , .	3.0	1
61	Power Link Optimization for a Neurostimulator in Nasal Cavity. International Journal of Antennas and Propagation, 2017, 2017, 1-6.	1.2	0
62	Guidance control to capture a target using communication between the autonomous aerial vehicle and remote sensors. IET Radar, Sonar and Navigation, 2019, 13, 1816-1825.	1.8	0
63	Robust and efficient WLS-based dynamic state estimation considering transformer core saturation. Journal of the Franklin Institute, 2020, 357, 12938-12959.	3.4	0
64	Particle Discharge Rate Analysis and Control Laws of the Exit Gate for Pyramidal Hoppers. International Journal of Control, Automation and Systems, 2021, 19, 2529-2535.	2.7	0
65	Distributed herding of multiple robots in cluttered environments. Robotics and Autonomous Systems, 2021, 146, 103889.	5.1	0
66	3D reactive surface scan utilising a robot with rigidly mounted range sensors. IET Radar, Sonar and Navigation, 2020, 14, 2010-2016.	1.8	0
67	Three dimensional motion camouflage guidance utilizing multiple leaders and one interceptor. IET Radar, Sonar and Navigation, 0, , .	1.8	0
68	Automatic Thread Defect Examination System. Applied Sciences (Switzerland), 2022, 12, 6109.	2.5	0
69	Tracking a Ground Target Utilizing Doppler-Only Measurements of a Single Passive Sonar Sensor Assisted by Straight Road Constraints. IEEE Access, 2022, 10, 74198-74206.	4.2	0