Kazunori Ohno

List of Publications by Year
in descending order

43 papers	750 citations	933447 10 h-index	552781 26 g-index
43 all docs	43 docs citations	43 times ranked	766 citing authors

#	Article	IF	Citations
1	Collaborative mapping of an earthquake‐damaged building via ground and aerial robots. Journal of Field Robotics, 2012, 29, 832-841.	6.0	294
2	Differential GPS and odometry-based outdoor navigation of a mobile robot. Advanced Robotics, 2004, 18, 611-635.	1.8	74
3	Collaborative Mapping of an Earthquake Damaged Building via Ground and Aerial Robots. Springer Tracts in Advanced Robotics, 2014, , 33-47.	0.4	60
4	Quince : A Collaborative Mobile Robotic Platform for Rescue Robots Research and Development. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 225-230.	0.0	44
5	Multirobot exploration for search and rescue missions: A report on map building in RoboCupRescue 2009. Journal of Field Robotics, 2011, 28, 373-387.	6.0	36
6	Development and Experimental Validation of Aerial Vehicle With Passive Rotating Shell on Each Rotor. IEEE Robotics and Automation Letters, 2019, 4, 2568-2575.	5.1	30
7	Vehicle detection and localization on bird's eye view elevation images using convolutional neural network. , 2017, , .		28
8	Fog removal using laser beam penetration, laser intensity, and geometrical features for 3D measurements in fog-filled room. Advanced Robotics, 2016, 30, 729-743.	1.8	25
9	Trials of 3-D map construction using the tele-operated tracked vehicle kenaf at disaster city. , 2010, , .		18
10	Enhanced path smoothing based on conjugate gradient descent for firefighting robots in petrochemical complexes. Advanced Robotics, 2019, 33, 687-698.	1.8	18
11	Robust stairway-detection and localization method for mobile robots using a graph-based model and competing initializations. International Journal of Robotics Research, 2018, 37, 1463-1483.	8.5	12
12	Autonomous Driving of Six-Wheeled Dump Truck with a Retrofitted Robot. Springer Proceedings in Advanced Robotics, 2021, , 59-72.	1.3	11
13	Applying geographic profiling used in the field of criminology for predicting the nest locations of bumble bees. Journal of Theoretical Biology, 2010, 265, 211-217.	1.7	10
14	Cyber-Enhanced Rescue Canine. Springer Tracts in Advanced Robotics, 2019, , 143-193.	0.4	10
15	Semantic Mapping of Construction Site From Multiple Daily Airborne LiDAR Data. IEEE Robotics and Automation Letters, 2021, 6, 3073-3080.	5.1	9
16	Fusion of Camera and Lidar Data for Large Scale Semantic Mapping. , 2019, , .		8
17	3-D mapping of an underground mall using a tracked vehicle with four sub-tracks. , 2009, , .		7
18	Real-time emotional state estimation system for Canines based on heart rate variability. , 2017, , .		6

#	Article	IF	Citations
19	Attachable Sensor Boxes to Visualize Backhoe Motion. , 2020, , .		6
20	Parking Spot Estimation and Mapping Method for Mobile Robots. IEEE Robotics and Automation Letters, 2018, 3, 3371-3378.	5.1	5
21	Attempt at climbing of spiral staircase for tracked vehicles using reaction force of stairs' handrail. , 2017, , .		4
22	Canine Motion Control Using Bright Spotlight Devices Mounted on a Suit. IEEE Transactions on Medical Robotics and Bionics, 2019, 1, 189-198.	3.2	4
23	Stable Autonomous Spiral Stair Climbing of Tracked Vehicles Using Wall Reaction Force. IEEE Robotics and Automation Letters, 2020, 5, 6575-6582.	5.1	4
24	Prediction of Backhoe Loading Motion via the Beta-Process Hidden Markov Model. , 2020, , .		4
25	Active Range Finder based 3D SLAM. Journal of the Robotics Society of Japan, 2008, 26, 306-309.	0.1	4
26	Control of Canine's Moving Direction by Using On-suit Laser Beams. , 2018, , .		3
27	Estimation of articulated angle in six-wheeled dump trucks using multiple GNSS receivers for autonomous driving. Advanced Robotics, 2021, 35, 1376-1387.	1.8	3
28	Precise Velocity Estimation for Dog Using Its Gait. Springer Tracts in Advanced Robotics, 2015, , 515-528.	0.4	3
29	Generation of Turning Motion for Tracked Vehicles Using Reaction Force of Stairs' Handrail. Springer Proceedings in Advanced Robotics, 2018, , 65-80.	1.3	2
30	An image recognition system aimed at search activities using cyber search and rescue dogs. Journal of Field Robotics, 2019, 36, 677-695.	6.0	2
31	Cooperative Towing by Multi-Robot System That Maintains Welding Cable in Optimized Shape. IEEE Robotics and Automation Letters, 2022, 7, 11783-11790.	5.1	2
32	Special issue on disaster response robotics (2). Advanced Robotics, 2015, 29, 147-147.	1.8	1
33	Development of a swim-type ROV for narrow space inspection. Journal of Nuclear Science and Technology, 2017, 54, 414-423.	1.3	1
34	Velocity Control of Pneumatic Motor Attached to Retrofit-type Steering Handle for Autonomous Navigation of Conventional Six-wheeled Dump Truck. Transactions of the Society of Instrument and Control Engineers, 2021, 57, 433-444.	0.2	1
35	Electrocardiogram Measurement and Emotion Estimation of Working Dogs. IEEE Robotics and Automation Letters, 2022, 7, 4047-4054.	5.1	1
36	Special issue on disaster response robotics. Advanced Robotics, 2014, 28, 1545-1545.	1.8	0

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37	Cyber-enhanced canine suit with wide-view angle for three-dimensional LiDAR SLAM for indoor environments. Advanced Robotics, 2020, 34, 715-729.	1.8	0
38	Wall Deadlock Evasion Control Based on Rotation Radius Adjustment. IEEE Robotics and Automation Letters, 2020, 5, 1358-1365.	5.1	0
39	Special Issue on Disaster Robotics - ImPACT Tough Robotics Challenge. Advanced Robotics, 2020, 34, 699-699.	1.8	0
40	An individual prediction model of the pre-loading motion for operator and backhoe pairs. Advanced Robotics, 0, , 1-16.	1.8	0
41	Tracked-Vehicle Clutching Position Detectability on Bumps by Distributed Inclination Sensors. Journal of Robotics and Mechatronics, 2010, 22, 293-300.	1.0	0
42	Practical Cyber-enhanced Rescue Canine Suit and Canine Remote-Control Suit. Journal of the Robotics Society of Japan, 2019, 37, 795-799.	0.1	0
43	Special issue on Advanced Construction Robot System. Advanced Robotics, 2021, 35, 1375-1375.	1.8	0