

Kuniaki Kawabata

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Image Selection Method from Image Sequence to Improve Computational Efficiency of 3D Reconstruction: Analysis of Inter-image Displacement Based on Optical Flow for Evaluating 3D Reconstruction Performance. , 2022, , .		4
2	A Simulator-based System for Testing Skill to Maneuver Robot Remotely* : -Implementations of Data Collection and Presentation Functions Related to Robot Maneuver-. , 2021, , .		0
3	HAIROWorldPlugin: a Choreonoid plugin for virtually configuring decommissioning task environment for the robots. , 2021, , .		1
4	Development of Testing Method Considering Tasks with Remotely Controlled Robots in Fukushima Daiichi Nuclear Power Station. , 2021, , .		7
5	3D Reconstruction of Structure Based on Image Sequence for Supporting Operator in Decommissioning. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2021, 2021, 2A1-O11.	0.0	0
6	Development of 3D Reconstruction Method from Images for Grasping the Internal State of the Reactor. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2021, 2021, 2A1-O09.	0.0	0
7	Development of a Dataset to Evaluate SLAM for Fukushima Daiichi Nuclear Power Plant Decommissioning. , 2020, , .		2
8	Development of a Simulator for Underwater Reconnaissance Tasks by Utilizing Remotely Operated Robots. , 2020, , .		6
9	3D Reconstruction of Structure Based on Image Sequence for Supporting Operator in Decommissioning. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2020, 2020, 2P1-P09.	0.0	0
10	Development of a Dataset for testing SLAM for Fukushima Daiichi Nuclear Power Station. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2020, 2020, 2P1-P04.	0.0	1
11	Development of Training System for Remotely Operation using Robot Simulator. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2020, 2020, 2P1-P02.	0.0	1
12	Development of a Robot Simulator for Remote Operations for Nuclear Decommissioning. , 2019, , .		8
13	Development of a Multi-copter Simulator and a Projection System for Virtual Operation Experience. , 2019, , .		3
14	Development of a GUI-based Operation System for Building a 3D Point Cloud Classifier. , 2019, , .		0
15	Designing Test Methods for Running Capabilities of Ground Robots for Nuclear Disaster Response* . , 2019, , .		2
16	Development of Test Methods for Robots for Nuclear Disaster Response. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2019, 2019, 2A1-B11.	0.0	0
17	Extraction Method of Swimming Trajectory for Behavior Analysis of Medaka (<i>Oryzias latipes</i>). IEEJ Transactions on Industry Applications, 2019, 139, 424-432.	0.1	1
18	Remote radiation imaging system using a compact gamma-ray imager mounted on a multicopter drone. Journal of Nuclear Science and Technology, 2018, 55, 90-96.	0.7	51

#	ARTICLE	IF	CITATIONS
19	Radiation imaging using a compact Compton camera inside the Fukushima Daiichi Nuclear Power Station building. Journal of Nuclear Science and Technology, 2018, 55, 965-970.	0.7	47
20	Development of operation support system for remotely operated underwater robot. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 2P2-B07.	0.0	0
21	Development of multicopter simulation function and traffic control simulation function for Choreonoid. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 1P2-L05.	0.0	0
22	Structure recognition using the machine learning for accident risk reduction in the decommissioning. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 1P2-L02.	0.0	0
23	Operability Improvement of Towed Underwater Robot. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 2P2-B09.	0.0	0
24	Fundamental study on 3D Reconstruction of Working Environment from Plural Images for Decommissioning. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 1P2-L06.	0.0	0
25	Naraha Center for Remote Control Technology Development : Enhancement of Remote Control Technology for Nuclear Decommissioning. Journal of the Robotics Society of Japan, 2018, 36, 460-463.	0.0	1
26	Image Reconstruction of Radioactive Contamination Due to the Fukushima-Daiichi Nuclear Power Station Accident Using a Compact Compton Camera. , 2018, , 428-436.		0
27	Development of a robot simulation system for remotely operated robots for operator proficiency training and robot performance verification. , 2017, , .		5
28	Development of an altitude-keeping system for underwater robots using laser beams. Artificial Life and Robotics, 2017, 22, 405-411.	0.7	3
29	Radiation Imaging System using a Compact Gamma-ray Imager mounted on a Remotely Operated Machine. IFAC-PapersOnLine, 2017, 50, 1062-1066.	0.5	4
30	Towards enhancement of test facilities for supporting nuclear decommissioning by remote technology. , 2017, , .		3
31	Development of simulation technology for nuclear emergency response. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 2P1-R11.	0.0	0
32	Verification Experiment for Tail Wing of Towed Underwater Robot. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 2A2-E11.	0.0	0
33	Development of a Modular Style Test Field for Remotely Operated Mobile Robots. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 2P1-R10.	0.0	0
34	Basic experiment of an altitude maintenance system using laser beams for underwater robots. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 2A2-E10.	0.0	0
35	Generation Method of Underwater Landmarks for Ocean Observation. Journal of Signal Processing, 2017, 21, 15-24.	0.2	0
36	Method of Dynamic Image Measurement for Analyzing Cricket Behavior. Journal of Signal Processing, 2016, 20, 65-74.	0.2	0

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37	Contactless measurement of human motion for personal mobility interface. , 2016, , .		0
38	A trajectory generation method for mobile robot based on iterative extension-like process. Artificial Life and Robotics, 2016, 21, 500-509.	0.7	1
39	Saddle type interface including human twisting motion for the personal mobility " Investigation on the repeatability of human motion. , 2016, , .		0
40	Visual impression to robot motion imitating human - study on delay motion. , 2016, , .		5
41	Development of Towed Underwater Robot. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 1P1-17b1.	0.0	0
42	Development of Automatic Tracking System of the Maritime Mobile for Underwater Object Position Measurement. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 1A1-16b2.	0.0	0
43	Development of a Robot Simulator for supporting to develop Nuclear Emergency Response Robots. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 2A1-17a2.	0.0	0
44	Development of Altitude Maintenance System using a Monocular Camera for an Underwater Robot. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 1P1-16b7.	0.0	0
45	Study of browsing functions for underwater environmental information observation in underwater monitoring sensor network system. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 1P1-17a7.	0.0	0
46	Accuracy verification of the image-based an underwater object position measurement. , 2015, , .		1
47	Method of position measurement for stationary sensor node based on marine tag. , 2015, , .		0
48	An attitude correction method for underwater image captured by stationary sensor node. , 2015, , .		0
49	A basic experiment for image-based position measurement of objects at sea. , 2015, , .		0
50	A study on definition of the imitation motion " From the viewpoint of imitated person. , 2015, , .		0
51	A study on imitation motion based on imitated person's view - Finding out the differences between imitation and non-imitation. , 2015, , .		0
52	Iterative polynomial-based trajectory extension for mobile robot. , 2015, , .		1
53	Iterative trajectory generation for mobile robot to pass through the waypoints. , 2015, , .		1
54	An online reference governor for mobile robot to reduce the occurrence of control input saturation. Advanced Robotics, 2015, 29, 671-681.	1.1	1

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55	Efficient Sampling-Based Motion Planning for On-Road Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1961-1976.	4.7	139
56	A path generation for automated vehicle based on Bezier curve and via-points. Robotics and Autonomous Systems, 2015, 74, 243-252.	3.0	50
57	Image-Based Pose Estimation for Analyzing Cricket-Robot Interaction Behavior. Journal of Signal Processing, 2014, 18, 135-141.	0.2	6
58	Experimental study on robotic interactions to the cricket. , 2014, , .		4
59	Motion design of service robot — Implementation to the robot. , 2014, , .		0
60	A sequential path extension method for mobile robot. , 2014, , .		2
61	Development of Underwater Monitoring Wireless Sensor Network to Support Coral Reef Observation. International Journal of Distributed Sensor Networks, 2014, 10, 189643.	1.3	15
62	Underwater Image Gathering by Utilizing Stationary and Movable Sensor Nodes: Towards Observation of Symbiosis System in the Coral Reef of Okinawa. International Journal of Distributed Sensor Networks, 2014, 10, 835642.	1.3	11
63	Motion design of service robot â€” Study on human impression. , 2014, , .		1
64	On-line reference governor for mobile robot with velocity feedback controller. , 2014, , .		0
65	A fast RRT algorithm for motion planning of autonomous road vehicles. , 2014, , .		24
66	The personal mobility interface including human twisting motion. , 2014, , .		5
67	A reference governor for reducing path tracking error of mobile platform. , 2014, , .		1
68	Terrain-surface Estimation from Body Configurations of Passive Linkages. International Journal of Advanced Robotic Systems, 2014, 11, 12.	1.3	1
69	Active interaction utilizing micro mobile robot and on-line data gathering for experiments in cricket pheromone behavior. Robotics and Autonomous Systems, 2013, 61, 1529-1538.	3.0	6
70	On-line image gathering by stationary and movable sensor node for underwater visual surveys. , 2013, , .		0
71	Controlled interaction with the cricket based on on-line pose estimation of mobile robot. , 2013, , .		4
72	A path generation method for automated vehicles based on Bezier curve. , 2013, , .		13

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73	Study of Wireless Sensor Node Functions for Underwater Monitoring Sensor Network. IEJ Transactions on Industry Applications, 2013, 133, 414-420.	0.1	2
74	A System for Automated Interaction with the Cricket Utilizing a Micro Mobile Robot. Journal of Robotics and Mechatronics, 2013, 25, 333-339.	0.5	8
75	On-Line Image Gathering Utilizing an Operated Underwater Movable Sensor Node. Journal of Robotics and Mechatronics, 2013, 25, 772-777.	0.5	4
76	Development of Easy-Removable Underwater Manipulator Unit with Built-in Controller. Journal of Robotics and Mechatronics, 2013, 25, 778-784.	0.5	9
77	Method of Dynamic Image Processing for Ecology Observation of Marine Life. Journal of Robotics and Mechatronics, 2013, 25, 820-829.	0.5	7
78	Experiment Verification of Position Measurement for Underwater Mobile Robot Using Monocular Camera. Lecture Notes in Electrical Engineering, 2013, , 873-879.	0.3	1
79	Experimental Verification of Lifting Force of Underwater Robot with Thrusters Using Passive Posture Maintenance. Journal of Robotics and Mechatronics, 2013, 25, 812-819.	0.5	7
80	Mobile Sensor Networks: Theory, Control, Communication, and Computation Issues. International Journal of Distributed Sensor Networks, 2013, 9, 875702.	1.3	0
81	Special Issue on Underwater Robotics and Mechatronics. Journal of Robotics and Mechatronics, 2013, 25, 771-771.	0.5	0
82	Development of a cricket interaction system utilizing mobile robot for behavioral data collection. , 2012, , .		3
83	Study on motion design for service robot based on standard human motion. , 2012, , .		5
84	Design and development of impact-resistant sensor node for launch deployment into closed area. Sensor Review, 2012, 32, 318-326.	1.0	4
85	Anthropomorphic "Motion Design" on Non-Holonomic Vehicle for Intuitive Interface. International Journal of Advanced Robotic Systems, 2012, 9, 208.	1.3	7
86	Sweeping Task of Multiple Mobile Agents by Utilizing Behavior Selection Model with Interaction-Based Efficacy Dynamics. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2012, 78, 3028-3032.	0.2	3
87	A neuromodulation model of behavior selection in the fighting behavior of male crickets. Robotics and Autonomous Systems, 2012, 60, 707-713.	3.0	12
88	Automatic detection of crystallization evaluation region by using image processing. Sensor Review, 2011, 31, 207-217.	1.0	3
89	Autonomous Deployment and Restoration of Sensor Network using Mobile Robots. International Journal of Advanced Robotic Systems, 2010, 7, 15.	1.3	26
90	A Study about Wireless Network Communication Performance at the Coastal Area for Underwater Monitoring Sensor Networks. IEICE Transactions on Communications, 2010, E93-B, 2956-2958.	0.4	8

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91	Automatic Counting Robot Development Supporting Qualitative Asbestos Analysis -Asbestos, Air Bubbles, and Particles Classification Using Machine Learning-. Journal of Robotics and Mechatronics, 2010, 22, 506-513.	0.5	3
92	Special Issue on Machine Intelligence for Robotics and Mechatronics. Journal of Robotics and Mechatronics, 2010, 22, 417-417.	0.5	0
93	Development of an automatic polarized microscopic imaging system for asbestos qualitative analysis. , 2009, , .		3
94	Development of a polarized microscopic image management system for supporting asbestos qualitative analysis utilizing dispersion staining. , 2009, , .		0
95	Slip reduction control using plural wheel information for step-climbing vehicle. , 2009, , .		1
96	An Asbestos Fiber Detection Technique Utilizing Image Processing Based on Dispersion Color. Particulate Science and Technology, 2009, 27, 177-192.	1.1	10
97	Omni-directional vehicle control based on body configuration. Industrial Robot, 2009, 36, 461-468.	1.2	2
98	Interpolation of binarized CLSM images for extraction of premotor neuron branch structures in silkworm moth. Sensor Review, 2009, 29, 137-147.	1.0	0
99	Disaster Information Gathering Aerial Robot Systems. , 2009, , 33-55.		7
100	Deployment and Management of Wireless Sensor Network Using Mobile Robots for Gathering Environmental Information. , 2009, , 63-72.		6
101	Asbestos Detection Method with Frequency Analysis for Microscope Images. Lecture Notes in Computer Science, 2009, , 430-439.	1.0	2
102	Development of an Automated Microscope for Supporting Qualitative Asbestos Analysis by Dispersion Staining. Journal of Robotics and Mechatronics, 2009, 21, 186-192.	0.5	6
103	Information Infrastructure for Rescue Systems. , 2009, , 57-69.		0
104	Image processing of particle detection for asbestos qualitative analysis support method -Particle counting system based on classification of background area-. , 2008, , .		7
105	Development of a sensor node with impact resistance capability for gathering disaster area information. , 2008, , .		2
106	A wireless camera node with passive pendulum mechanism. , 2008, , .		1
107	3D odometry based on body configuration information of passive linkages. , 2008, , .		1
108	Information gathering by wireless camera node with passive pendulum mechanism. , 2008, , .		5

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109	3D Odometry based on body configuration. , 2008, , .		2
110	Information acquisition using intelligent sensor nodes and an autonomous blimp. , 2008, , .		0
111	Evaluation of protein crystallization state by sequential image classification. Sensor Review, 2008, 28, 242-247.	1.0	3
112	Crystalline object evaluation by image processing. Sensor Review, 2008, 28, 143-149.	1.0	1
113	Experimental analysis and computational simulation of the attribution of own actions by the multiple forward models. , 2007, , .		1
114	3D measurement sensor system for rough terrain mobile robots. Sensor Review, 2007, 27, 224-232.	1.0	4
115	Autonomous Climbing Motions for Connected Crawler Robots. , 2007, , .		0
116	Force assistance system for standingâ€p motion. Industrial Robot, 2007, 34, 128-134.	1.2	20
117	State-Predictive Control of an Autonomous Blimp in the Presence of Time Delay and Disturbance. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	5
118	Hybrid Radio Frequency Identification System for Use in Disaster Relief as Positioning Source and Emergency Message Boards. , 2007, , 85-94.		7
119	Vehicle Guidance System using Local Information Assistants. , 2007, , 85-94.		1
120	A Neuromodulation Model for Adaptive Behavior Selection by the Cricket â€ Nitric Oxide (NO)/Cyclic Guanosine MonoPhosphate (cGMP) Cascade Model â€“. Journal of Robotics and Mechatronics, 2007, 19, 388-394.	0.5	11
121	Adaptive Action Selection of Body Expansion Behavior in Multi-Robot System Using Communication. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2007, 11, 142-148.	0.5	5
122	Configuration-Based Wheel Control for Step-Climbing Vehicle. Journal of Robotics and Mechatronics, 2007, 19, 52-59.	0.5	1
123	Experimental Analysis of the Attribution of Own Actions to the Intention of Self or Others by the Multiple Forward Models. Journal of Robotics and Mechatronics, 2007, 19, 482-488.	0.5	0
124	Mathematical Model of Proportion Control and Fluctuation Characteristic in Termite Caste Differentiation. Journal of Robotics and Mechatronics, 2007, 19, 429-435.	0.5	2
125	Rescue Infrastructure for Global Information Collection. , 2006, , .		11
126	Control Law for Rough Terrain Robot with Leg-type Crawler. , 2006, , .		10

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127	Evaluation of crystalline objects in crystallizing protein droplets based on line-segment information in greyscale images. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 239-245.	2.5	11
128	Integrated state evaluation for the images of crystallization droplets utilizing linear and nonlinear classifiers. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 1066-1072.	2.5	6
129	Plural Wheels Control based on Slip Estimation. , 2006, , .		1
130	Constrained Model Predictive Control: Applications to Multi-Vehicle Formation and an Autonomous Blimp. , 2006, , .		4
131	Aerial Robots for Quick Information Gathering in USAR. , 2006, , .		24
132	The development of crawler type robot that can move in all over the house. , 2006, , .		1
133	Rescue Communicators for Global Victim Search and Local Rescue Planning. , 2006, , .		5
134	Force Assistance System for Standing-Up Motion. , 2006, , .		17
135	Study on Mobility of Connected Crawler Robot by Using GA. , 2006, , 123-130.		1
136	Model Predictive Control of an Autonomous Blimp with Input and Output Constraints. , 2006, , .		14
137	Mechanical Design of Step-Climbing Vehicle with Passive Linkages. , 2006, , 287-294.		6
138	Self-Localization Method Utilizing Environment-Embedded Information and Range Sensory Information. <i>Journal of Robotics and Mechatronics</i> , 2006, 18, 131-138.	0.5	1
139	Wheel Control Based on Body Configuration for Step-Climbing Vehicle. , 2006, , 331-342.		0
140	Evaluation of protein crystallization states based on texture information derived from greyscale images. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 873-880.	2.5	14
141	Development of a control system for an omni-directional vehicle with step-climbing ability. <i>Advanced Robotics</i> , 2005, 19, 55-71.	1.1	20
142	2P1-S-092 Development of research platform of social infrastructure Rescue-Communicator(Rescue) Tj ETQq0 0 0 rgBT /Overlock 10 Tf . 2005, 224.	0.0	1
143	Information Assistance for Search-and-Rescue by Intelligent Data Carriers and a Data Retrieval Blimp. <i>Journal of Robotics and Mechatronics</i> , 2003, 15, 521-527.	0.5	6
144	Omnidirectional Mobile Platform for Research and Development. <i>Journal of Robotics and Mechatronics</i> , 2002, 14, 105-111.	0.5	7

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145	A Wireless Camera Node with Passive Self-righting Mechanism for Capturing Surrounding View. , 0, , .		3
146	Mechanical Design of Step-Climbing Vehicle with Passive Linkages. , 0, , .		3