

Max Pflingsthorn

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

504
citations

1040056

9
h-index

1058476

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46
all docs

46
docs citations

46
times ranked

477
citing authors

#	ARTICLE	IF	CITATIONS
1	The Pinax-model for accurate and efficient refraction correction of underwater cameras in flat-pane housings. Ocean Engineering, 2017, 133, 9-22.	4.3	68
2	Fast 3D mapping by matching planes extracted from range sensor point-clouds. , 2009, , .		38
3	A Scalable Hybrid Multi-robot SLAM Method for Highly Detailed Maps. Lecture Notes in Computer Science, 2008, , 457-464.	1.3	35
4	Simultaneous localization and mapping with multimodal probability distributions. International Journal of Robotics Research, 2013, 32, 143-171.	8.5	32
5	Maximum likelihood mapping with spectral image registration. , 2010, , .		27
6	DexROV: Dexterous Undersea Inspection and Maintenance in Presence of Communication Latencies. IFAC-PapersOnLine, 2015, 48, 218-223.	0.9	25
7	Efficiently communicating map updates with the pose graph. , 2008, , .		21
8	The European Project MORPH: Distributed UUV Systems for Multimodal, 3D Underwater Surveys. Marine Technology Society Journal, 2016, 50, 26-41.	0.4	18
9	Dexterous Undersea Interventions with Far Distance Onshore Supervision: the DexROV Project. IFAC-PapersOnLine, 2016, 49, 414-419.	0.9	18
10	Augmented autonomy: Improving human-robot team performance in Urban search and rescue. , 2008, , .		17
11	Determining Map Quality through an Image Similarity Metric. Lecture Notes in Computer Science, 2009, , 355-365.	1.3	17
12	Uncertainty estimation for a 6-DoF spectral registration method as basis for sonar-based underwater 3D SLAM. , 2012, , .		16
13	An efficient strategy for data exchange in multi-robot mapping under underwater communication constraints. , 2010, , .		15
14	Acceptance of Industrial Collaborative Robots by People With Disabilities in Sheltered Workshops. Frontiers in Robotics and AI, 2020, 7, 541741.	3.2	15
15	Efficient continuous system integration and validation for deep-sea robotics applications. , 2017, , .		13
16	Visual diver detection using multi-descriptor nearest-class-mean random forests in the context of underwater Human Robot Interaction (HRI). , 2015, , .		12
17	Mind the ARm. , 2020, , .		12
18	Surface Representations for 3D Mapping. KI - Kunstliche Intelligenz, 2010, 24, 249-254.	3.2	10

#	ARTICLE	IF	CITATIONS
19	Using Robust Spectral Registration for Scan Matching of Sonar Range Data. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 611-616.	0.4	9
20	Extraction of Semantic Floor Plans from 3D Point Cloud Maps. , 2007, , .		7
21	Multi Low-resolution Infrared Sensor Setup for Privacy-preserving Unobtrusive Indoor Localization. , 2019, , .		7
22	Incorporating large scale SSRR scenarios into the high fidelity simulator USARSim. , 2009, , .		6
23	DexROV: Enabling effective dexterous ROV operations in presence of communication latency. , 2015, , .		6
24	Advances in underwater mapping and their application potential for Safety, Security, and Rescue Robotics (SSRR). , 2012, , .		5
25	Representing and solving local and global ambiguities as multimodal and hyperedge constraints in a generalized graph SLAM framework. , 2014, , .		5
26	Full 3D navigation correction using low frequency visual tracking with a stereo camera. , 2016, , .		5
27	Kinesthetic Device vs. Keyboard/Mouse: A Comparison in Home Care Telemanipulation. Frontiers in Robotics and AI, 2020, 7, 561015.	3.2	5
28	Optimized Octtree Datastructure and Access Methods for 3D Mapping. , 2007, , .		4
29	From Multi-Modal Property Dataset to Robot-Centric Conceptual Knowledge About Household Objects. Frontiers in Robotics and AI, 2021, 8, 476084.	3.2	4
30	Reconnaissance and camp security missions with an Unmanned Aerial Vehicle (UAV) at the 2009 European Land Robots Trials (ELROB). , 2009, , .		3
31	Underwater stereo data acquisition and 3D registration with a spectral method. , 2013, , .		3
32	Detecting the Number of Persons in the Bed Area to Enhance the Safety of Artificially Ventilated Persons. , 2018, , .		3
33	Commanding a Whole-Arm Manipulation Grasp Configuration With One Click: Interaction Concept and Analytic IK Method. , 2021, , .		3
34	Towards Cooperative and Decentralized Mapping in the Jacobs Virtual Rescue Team. Lecture Notes in Computer Science, 2009, , 225-234.	1.3	3
35	Cooperative 3D mapping under underwater communication constraints. , 2011, , .		2
36	Semantic annotation of ground and vegetation types in 3D maps for autonomous underwater vehicle operation. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
37	Large-scale mosaicking with spectral registration based simultaneous localization and mapping (iFMI-SLAM) in the Ligurian Sea. , 2013, , .		2
38	Robust estimation of camera-tilt for iFMI based underwater photo-mapping using a calibrated monocular camera. , 2013, , .		2
39	Large-scale image mosaicking using multimodal hyperedge constraints from multiple registration methods within the Generalized Graph SLAM framework. , 2014, , .		2
40	Using Different Humanoid Robots for Science Edutainment of Secondary School Pupils. Lecture Notes in Computer Science, 2009, , 451-462.	1.3	2
41	Towards Object Classification Using 3D Sensor Data. , 2008, , .		1
42	Underwater place recognition in noisy stereo data using FAB-MAP with a multimodal vocabulary from 2D texture and 3D surface descriptors. , 2015, , .		1
43	A Clustering-based Approach to Determine a Standardized Statistic for Daily Activities of Elderly Living Alone. , 2019, , .		1
44	Unsupervised Temporal Segmentation of Skeletal Motion Data using Joint Distance Representation. , 2018, , .		1
45	Visual speed adaptation for improved sensor coverage in a multi-vehicle survey mission. , 2016, , .		0