Max Pfingsthorn

List of Publications by Year
in descending order

45 papers	504 citations	1040056 9 h-index	1058476 14 g-index
46 all docs	46 docs citations	46 times ranked	477 citing authors

#	Article	IF	Citations
1	From Multi-Modal Property Dataset to Robot-Centric Conceptual Knowledge About Household Objects. Frontiers in Robotics and AI, 2021, 8, 476084.	3.2	4
2	Commanding a Whole-Arm Manipulation Grasp Configuration With One Click: Interaction Concept and Analytic IK Method. , 2021, , .		3
3	Acceptance of Industrial Collaborative Robots by People With Disabilities in Sheltered Workshops. Frontiers in Robotics and AI, 2020, 7, 541741.	3.2	15
4	Mind the ARm. , 2020, , .		12
5	Kinesthetic Device vs. Keyboard/Mouse: A Comparison in Home Care Telemanipulation. Frontiers in Robotics and AI, 2020, 7, 561015.	3.2	5
6	A Clustering-based Approach to Determine a Standardized Statistic for Daily Activities of Elderly Living Alone. , 2019, , .		1
7	Multi Low-resolution Infrared Sensor Setup for Privacy-preserving Unobtrusive Indoor Localization. , 2019, , .		7
8	Detecting the Number of Persons in the Bed Area to Enhance the Safety of Artificially Ventilated Persons. , 2018, , .		3
9	Unsupervised Temporal Segmentation of Skeletal Motion Data using Joint Distance Representation. , 2018, , .		1
10	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
11	Efficient continuous system integration and validation for deep-sea robotics applications. , 2017, , .		13
12	The European Project MORPH: Distributed UUV Systems for Multimodal, 3D Underwater Surveys. Marine Technology Society Journal, 2016, 50, 26-41.	0.4	18
13	Dexterous Undersea Interventions with Far Distance Onshore Supervision: the DexROV Project. IFAC-PapersOnLine, 2016, 49, 414-419.	0.9	18
14	Visual speed adaptation for improved sensor coverage in a multi-vehicle survey mission. , 2016, , .		0
15	Full 3D navigation correction using low frequency visual tracking with a stereo camera. , 2016, , .		5
16	DexROV: Enabling effective dexterous ROV operations in presence of communication latency. , 2015, , .		6
17	DexROV: Dexterous Undersea Inspection and Maintenance in Presence of Communication Latencies. IFAC-PapersOnLine, 2015, 48, 218-223.	0.9	25
18	Visual diver detection using multi-descriptor nearest-class-mean random forests in the context of underwater Human Robot Interaction (HRI). , 2015, , .		12

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19	Underwater place recognition in noisy stereo data using FAB-MAP with a multimodal vocabulary from 2D texture and 3D surface descriptors. , 2015, , .		1
20	Large-scale image mosaicking using multimodal hyperedge constraints from multiple registration methods within the Generalized Graph SLAM framework. , 2014, , .		2
21	Representing and solving local and global ambiguities as multimodal and hyperedge constraints in a generalized graph SLAM framework. , 2014, , .		5
22	Simultaneous localization and mapping with multimodal probability distributions. International Journal of Robotics Research, 2013, 32, 143-171.	8.5	32
23	Large-scale mosaicking with spectral registration based simultaneous localization and mapping (iFMI-SLAM) in the Ligurian Sea. , 2013, , .		2
24	Underwater stereo data acquisition and 3D registration with a spectral method. , 2013, , .		3
25	Robust estimation of camera-tilt for iFMI based underwater photo-mapping using a calibrated monocular camera. , 2013, , .		2
26	Uncertainty estimation for a 6-DoF spectral registration method as basis for sonar-based underwater 3D SLAM. , 2012, , .		16
27	Advances in underwater mapping and their application potential for Safety, Security, and Rescue Robotics (SSRR). , 2012, , .		5
28	Cooperative 3D mapping under underwater communication constraints. , 2011, , .		2
29	Semantic annotation of ground and vegetation types in 3D maps for autonomous underwater vehicle operation. , 2011, , .		2
30	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
31	Surface Representations for 3D Mapping. KI - Kunstliche Intelligenz, 2010, 24, 249-254.	3.2	10
32	Maximum likelihood mapping with spectral image registration. , 2010, , .		27
33	An efficient strategy for data exchange in multi-robot mapping under underwater communication constraints. , 2010, , .		15
34	Fast 3D mapping by matching planes extracted from range sensor point-clouds. , 2009, , .		38
35	Incorporating large scale SSRR scenarios into the high fidelity simulator USARSim. , 2009, , .		6
36	Reconnaissance and camp security missions with an Unmanned Aerial Vehicle (UAV) at the 2009 European Land Robots Trials (ELROB). , 2009, , .		3

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37	Determining Map Quality through an Image Similarity Metric. Lecture Notes in Computer Science, 2009, , 355-365.	1.3	17
38	Towards Cooperative and Decentralized Mapping in the Jacobs Virtual Rescue Team. Lecture Notes in Computer Science, 2009, , 225-234.	1.3	3
39	Using Different Humanoid Robots for Science Edutainment of Secondary School Pupils. Lecture Notes in Computer Science, 2009, , 451-462.	1.3	2
40	Augmented autonomy: Improving human-robot team performance in Urban search and rescue. , 2008, , .		17
41	Efficiently communicating map updates with the pose graph. , 2008, , .		21
42	Towards Object Classification Using 3D Sensor Data. , 2008, , .		1
43	A Scalable Hybrid Multi-robot SLAM Method for Highly Detailed Maps. Lecture Notes in Computer Science, 2008, , 457-464.	1.3	35
44	Optimized Octtree Datastructure and Access Methods for 3D Mapping. , 2007, , .		4
45	Extraction of Semantic Floor Plans from 3D Point Cloud Maps. , 2007, , .		7