Thomas Wiemann

List of Publications by Year
in descending order

23 papers	233 citations	1307594 7 h-index	1281871 11 g-index
23 all docs	23 docs citations	23 times ranked	208 citing authors

#	Article	IF	Citations
1	The Mesh Tools Package â€" Introducing Annotated 3D Triangle Maps in ROS. Robotics and Autonomous Systems, 2021, 138, 103688.	5.1	7
2	Continuous Shortest Path Vector Field Navigation on 3D Triangular Meshes for Mobile Robots. , 2021, , .		9
3	Monocular Localization in Feature-Annotated 3D Polygon Maps. , 2021, , .		1
4	HATSDF SLAM â€" Hardware-accelerated TSDF SLAM for Reconfigurable SoCs. , 2021, , .		5
5	Energy-efficient FPGA-accelerated LiDAR-based SLAM for embedded robotics. , 2021, , .		8
6	A File Structure and Reference Data Set for High Resolution Hyperspectral 3D Point Clouds. IFAC-PapersOnLine, 2019, 52, 403-408.	0.9	9
7	Tools for Visualizing, Annotating and Storing Triangle Meshes in ROS and RViz. , 2019, , .		7
8	Compressing ROS Sensor and Geometry Messages with Draco. , 2019, , .		6
9	A spatio-semantic approach to reasoning about agricultural processes. Applied Intelligence, 2019, 49, 3821-3833.	5.3	7
10	Markerless Ad-Hoc Calibration of a Hyperspectral Camera and a 3D Laser Scanner. Advances in Intelligent Systems and Computing, 2019, , 748-759.	0.6	4
11	Grounding semantic maps in spatial databases. Robotics and Autonomous Systems, 2018, 105, 146-165.	5.1	24
12	Surface Reconstruction from Arbitrarily Large Point Clouds. , 2018, , .		15
13	Model-based furniture recognition for building semantic object maps. Artificial Intelligence, 2017, 247, 336-351.	5.8	27
14	Optimizing Triangle Mesh Reconstructions of Planar Environments. IFAC-PapersOnLine, 2016, 49, 218-223.	0.9	3
15	3D Navigation Mesh Generation for Path Planning in Uneven Terrain. IFAC-PapersOnLine, 2016, 49, 212-217.	0.9	33
16	Online Mesh Optimization for Large Scale KinectFusion Meshes. IFAC-PapersOnLine, 2016, 49, 126-131.	0.9	2
17	Generating topologically consistent triangle meshes from large scale Kinect Fusion. , 2015, , .		3
18	An Extended Evaluation of Open Source Surface Reconstruction Software for Robotic Applications. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 149-170.	3.4	22

#	Article	IF	Citations
19	From Object Recognition to Activity Interpretation and Back, Based on Point Cloud Data. KI - Kunstliche Intelligenz, 2013, 27, 161-167.	3.2	1
20	An evaluation of open source surface reconstruction software for robotic applications. , 2013, , .		7
21	Building semantic object maps from sparse and noisy 3D data. , 2013, , .		13
22	Automatic creation and application of texture patterns to 3D polygon maps. , 2013, , .		4
23	Automatic construction of polygonal maps from point cloud data. , 2010, , .		16