

Michael Suppa

List of Publications by Year in descending order

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36
papers

1,402
citations

1478505

6
h-index

1588992

8
g-index

36
all docs

36
docs citations

36
times ranked

1496
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards Autonomous Planetary Exploration. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 461-494.	3.4	44
2	Towards efficient and scalable visual homing. International Journal of Robotics Research, 2018, 37, 225-248.	8.5	6
3	The LRU Rover for Autonomous Planetary Exploration and Its Success in the SpaceBotCamp Challenge. , 2016, , .		13
4	Shadow-based matching for precise and robust absolute self-localization during lunar landings. , 2015, , .		11
5	Trail-Map-based homing under the presence of sensor noise. , 2015, , .		1
6	Depth-based tracking with physical constraints for robot manipulation. , 2015, , .		43
7	Trajectory generation for immediate path-accurate jerk-limited stopping of industrial robots. , 2015, , .		6
8	Multi-robot 6D graph SLAM connecting decoupled local reference filters. , 2015, , .		31
9	Autonomous pick and place operations in industrial production. , 2015, , .		12
10	Efficient next-best-scan planning for autonomous 3D surface reconstruction of unknown objects. Journal of Real-Time Image Processing, 2015, 10, 611-631.	3.5	112
11	A biologically inspired navigation concept based on the Landmark-Tree map for efficient long-distance robot navigation. Advanced Robotics, 2014, 28, 289-302.	1.8	12
12	Trail-Map: A scalable landmark data structure for biologically inspired range-free navigation. , 2014, , .		4
13	Stereo-vision based obstacle mapping for indoor/outdoor SLAM. , 2014, , .		33
14	Predictive path-accurate scaling of a sensor-based defined trajectory. , 2014, , .		9
15	Stereo vision based indoor/outdoor navigation for flying robots. , 2013, , .		105
16	Force and trajectory control of industrial robots in stiff contact. , 2013, , .		32
17	Feature based particle filter registration of 3D surface models and its application in robotics. , 2013, , .		5
18	Sample consensus fitting of bivariate polynomials for initializing EM-based modeling of smooth 3D surfaces. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
19	Efficient navigation based on the Landmark-Tree map and the Z ⁺ algorithm using an omnidirectional camera. , 2013, ,		5
20	Combining object modeling and recognition for active scene exploration. , 2013, ,		30
21	Next-best-scan planning for autonomous 3D modeling. , 2012, ,		37
22	State estimation for highly dynamic flying systems using key frame odometry with varying time delays. , 2012, ,		24
23	Revised force control using a compliant sensor with a position controlled robot. , 2012, ,		7
24	Landmark-Tree map: A biologically inspired topological map for long-distance robot navigation. , 2012, ,		13
25	Toward a Fully Autonomous UAV: Research Platform for Indoor and Outdoor Urban Search and Rescue. IEEE Robotics and Automation Magazine, 2012, 19, 46-56.	2.0	627
26	View Planning for Multi-View Stereo 3D Reconstruction Using an Autonomous Multicopter. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 65, 309-323.	3.4	50
27	Optimization based IMU camera calibration. , 2011, ,		47
28	DLR VR-SCAN: A versatile and robust miniaturized laser scanner for short range 3D-modelling and exploration in robotics. , 2011, ,		0
29	Spatio-temporal initialization for IMU to camera registration. , 2011, ,		38
30	Optimisation of gaze movement for multitasking using rewards. , 2011, ,		0
31	Distributed large scale terrain mapping for mining and autonomous systems. , 2011, ,		0
32	Real-time Image-based Localization for Hand-held 3D-modeling. KI - Kunstliche Intelligenz, 2010, 24, 207-214.	3.2	5
33	Monocular ego-motion estimation with a compact omnidirectional camera. , 2010, ,		1
34	Efficient camera-based pose estimation for real-time applications. , 2009, ,		12
35	Tackling multi-sensory 3D data acquisition and fusion. , 2007, ,		3
36	The 3D-Modeller: A Multi-Purpose Vision Platform. Proceedings - IEEE International Conference on Robotics and Automation, 2007, ,	0.0	22