

Michael Suppa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10816092/publications.pdf>

Version: 2024-02-01

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	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
2	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
3	Stereo vision based indoor/outdoor navigation for flying robots. , 2013, , .		105
4	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
5	Optimization based IMU camera calibration. , 2011, , .		47
6	Towards Autonomous Planetary Exploration. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 461-494.	3.4	44
7	Depth-based tracking with physical constraints for robot manipulation. , 2015, , .		43
8	Spatio-temporal initialization for IMU to camera registration. , 2011, , .		38
9	Next-best-scan planning for autonomous 3D modeling. , 2012, , .		37
10	Stereo-vision based obstacle mapping for indoor/outdoor SLAM. , 2014, , .		33
11	Force and trajectory control of industrial robots in stiff contact. , 2013, , .		32
12	Multi-robot 6D graph SLAM connecting decoupled local reference filters. , 2015, , .		31
13	Combining object modeling and recognition for active scene exploration. , 2013, , .		30
14	State estimation for highly dynamic flying systems using key frame odometry with varying time delays. , 2012, , .		24
15	The 3D-Modeller: A Multi-Purpose Vision Platform. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	22
16	Landmark-Tree map: A biologically inspired topological map for long-distance robot navigation. , 2012, , .		13
17	The LRU Rover for Autonomous Planetary Exploration and Its Success in the SpaceBotCamp Challenge. , 2016, , .		13
18	Efficient camera-based pose estimation for real-time applications. , 2009, , .		12

#	ARTICLE	IF	CITATIONS
19	A biologically inspired navigation concept based on the Landmark-Tree map for efficient long-distance robot navigation. <i>Advanced Robotics</i> , 2014, 28, 289-302.	1.8	12
20	Autonomous pick and place operations in industrial production. , 2015, , .		12
21	Shadow-based matching for precise and robust absolute self-localization during lunar landings. , 2015, , .		11
22	Predictive path-accurate scaling of a sensor-based defined trajectory. , 2014, , .		9
23	Revised force control using a compliant sensor with a position controlled robot. , 2012, , .		7
24	Trajectory generation for immediate path-accurate jerk-limited stopping of industrial robots. , 2015, , .		6
25	Towards efficient and scalable visual homing. <i>International Journal of Robotics Research</i> , 2018, 37, 225-248.	8.5	6
26	Real-time Image-based Localization for Hand-held 3D-modeling. <i>KI - Kunstliche Intelligenz</i> , 2010, 24, 207-214.	3.2	5
27	Feature based particle filter registration of 3D surface models and its application in robotics. , 2013, , .		5
28	Efficient navigation based on the Landmark-Tree map and the Z ⁺ algorithm using an omnidirectional camera. , 2013, , .		5
29	Trail-Map: A scalable landmark data structure for biologically inspired range-free navigation. , 2014, , .		4
30	Tackling multi-sensory 3D data acquisition and fusion. , 2007, , .		3
31	Sample consensus fitting of bivariate polynomials for initializing EM-based modeling of smooth 3D surfaces. , 2013, , .		2
32	Monocular ego-motion estimation with a compact omnidirectional camera. , 2010, , .		1
33	Trail-Map-based homing under the presence of sensor noise. , 2015, , .		1
34	DLR VR-SCAN: A versatile and robust miniaturized laser scanner for short range 3D-modelling and exploration in robotics. , 2011, , .		0
35	Optimisation of gaze movement for multitasking using rewards. , 2011, , .		0
36	Distributed large scale terrain mapping for mining and autonomous systems. , 2011, , .		0