

# Stefan Leutenegger

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6222976/publications.pdf>

Version: 2024-02-01

29  
papers

3,866  
citations

1307594

7  
h-index

1372567

10  
g-index

29  
all docs

29  
docs citations

29  
times ranked

2972  
citing authors

#	ARTICLE	IF	CITATIONS
1	Keyframe-based visual-inertial odometry using nonlinear optimization. International Journal of Robotics Research, 2015, 34, 314-334.	8.5	1,224
2	Event-Based Vision: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 154-180.	13.9	671
3	ElasticFusion: Real-time dense SLAM and light source estimation. International Journal of Robotics Research, 2016, 35, 1697-1716.	8.5	469
4	SemanticFusion: Dense 3D semantic mapping with convolutional neural networks. , 2017, , .		331
5	Simultaneous Optical Flow and Intensity Estimation from an Event Camera. , 2016, , .		170
6	Real-Time 3D Reconstruction and 6-DoF Tracking with an Event Camera. Lecture Notes in Computer Science, 2016, , 349-364.	1.3	170
7	Deep learning a grasp function for grasping under gripper pose uncertainty. , 2016, , .		142
8	Pairwise Decomposition of Image Sequences for Active Multi-view Recognition. , 2016, , .		137
9	In-Place Scene Labelling and Understanding with Implicit Scene Representation. , 2021, , .		110
10	MID-Fusion: Octree-based Object-Level Multi-Instance Dynamic SLAM. , 2019, , .		97
11	Fast Frontier-based Information-driven Autonomous Exploration with an MAV. , 2020, , .		53
12	Efficient Octree-Based Volumetric SLAM Supporting Signed-Distance and Occupancy Mapping. IEEE Robotics and Automation Letters, 2018, 3, 1144-1151.	5.1	51
13	DeepFusion: Real-Time Dense 3D Reconstruction for Monocular SLAM using Single-View Depth and Gradient Predictions. , 2019, , .		37
14	Solar Airplane Conceptual Design and Performance Estimation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 545-561.	3.4	35
15	Dense RGB-D-inertial SLAM with map deformations. , 2017, , .		35
16	Multi-Resolution 3D Mapping With Explicit Free Space Representation for Fast and Accurate Mobile Robot Motion Planning. IEEE Robotics and Automation Letters, 2021, 6, 3553-3560.	5.1	21
17	Monocular, Real-Time Surface Reconstruction Using Dynamic Level of Detail. , 2016, , .		20
18	Adaptive-Resolution Octree-Based Volumetric SLAM. , 2019, , .		12

#	ARTICLE	IF	CITATIONS
19	Monocular visual odometry: Sparse joint optimisation or dense alternation?. , 2017, , .		10
20	Semantic Texture for Robust Dense Tracking. , 2017, , .		10
21	KO-Fusion: Dense Visual SLAM with Tightly-Coupled Kinematic and Odometric Tracking. , 2019, , .		9
22	Learning Meshes for Dense Visual SLAM. , 2019, , .		9
23	Nonlinear MPC with Motor Failure Identification and Recovery for Safe and Aggressive Multicopter Flight. , 2020, , .		9
24	X-Section: Cross-Section Prediction for Enhanced RGB-D Fusion. , 2019, , .		8
25	Volumetric Occupancy Mapping With Probabilistic Depth Completion for Robotic Navigation. IEEE Robotics and Automation Letters, 2021, 6, 5072-5079.	5.1	7
26	Elastic and Efficient LiDAR Reconstruction for Large-Scale Exploration Tasks. , 2021, , .		7
27	Deep Probabilistic Feature-Metric Tracking. IEEE Robotics and Automation Letters, 2021, 6, 223-230.	5.1	6
28	Special Issue on Machine Vision. International Journal of Computer Vision, 2019, 127, 1611-1613.	15.6	5
29	SIMstack: A Generative Shape and Instance Model for Unordered Object Stacks. , 2021, , .		1