Jan-Michael Frahm

List of Publications by Year
in descending order

51 papers	4,473 citations	933264 10 h-index	1125617 13 g-index
51 all docs	51 docs citations	51 times ranked	2671 citing authors

#	Article	IF	Citations
1	Structure-from-Motion Revisited. , 2016, , .		2,374
2	Real-Time Visibility-Based Fusion of Depth Maps. , 2007, , .		261
3	A Comparative Analysis of RANSAC Techniques Leading to Adaptive Real-Time Random Sample Consensus. Lecture Notes in Computer Science, 2008, , 500-513.	1.0	258
4	Modeling and Recognition of Landmark Image Collections Using Iconic Scene Graphs. Lecture Notes in Computer Science, 2008, , 427-440.	1.0	171
5	Piecewise planar and non-planar stereo for urban scene reconstruction. , 2010, , .		160
6	Feature tracking and matching in video using programmable graphics hardware. Machine Vision and Applications, 2011, 22, 207-217.	1.7	152
7	Simple calibration of non-overlapping cameras with a mirror. , 2008, , .		119
8	Reconstructing the World in Six Days. , 2015, , .		103
9	From single image query to detailed 3D reconstruction. , 2015, , .		80
10	Robust 6DOF Motion Estimation for Non-Overlapping, Multi-Camera Systems. , 2008, , .		56
11	Fast gain-adaptive KLT tracking on the GPU. , 2008, , .		53
12	Modeling and Recognition of Landmark Image Collections Using Iconic Scene Graphs. International Journal of Computer Vision, 2011, 95, 213-239.	10.9	53
13	Re-Thinking CNN Frameworks for Time-Sensitive Autonomous-Driving Applications: Addressing an Industrial Challenge. , 2019, , .		48
14	3D model matching with Viewpoint-Invariant Patches (VIP). , 2008, , .		47
15	Exploiting uncertainty in random sample consensus. , 2009, , .		43
16	RECON: Scale-adaptive robust estimation via Residual Consensus. , 2011, , .		38
17	Parallel, real-time visual SLAM. , 2010, , .		36
18	Online environment mapping. , 2011, , .		36

#	Article	IF	Citations
19	Fast robust large-scale mapping from video and internet photo collections. ISPRS Journal of Photogrammetry and Remote Sensing, 2010, 65, 538-549.	4.9	34
20	Development of augmented‐reality applications in otolaryngology–head and neck surgery. Laryngoscope, 2019, 129, S1-S11.	1.1	34
21	Towards Fully Mobile 3D Face, Body, and Environment Capture Using Only Head-worn Cameras. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2993-3004.	2.9	30
22	Predicting Good Features for Image Geo-Localization Using Per-Bundle VLAD. , 2015, , .		27
23	From structure-from-motion point clouds to fast location recognition. , 2009, , .		24
24	PAIGE: PAirwise Image Geometry Encoding for improved efficiency in Structure-from-Motion. , 2015, , .		21
25	Retweet Wars: Tweet Popularity Prediction via Dynamic Multimodal Regression. , 2018, , .		20
26	Joint Feature Tracking and Radiometric Calibration from Auto-Exposure Video. , 2007, , .		19
27	From Dusk Till Dawn: Modeling in the Dark. , 2016, , .		15
28	Towards Kilo-Hertz 6-DoF Visual Tracking Using an Egocentric Cluster of Rolling Shutter Cameras. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 2358-2367.	2.9	14
29	Radiometric calibration with illumination change for outdoor scene analysis. , 2008, , .		13
30	Online environment mapping using metric-topological maps. International Journal of Robotics Research, 2012, 31, 1394-1408.	5.8	13
31	On the Privacy Risks of Virtual Keyboards: Automatic Reconstruction of Typed Input from Compromising Reflections. IEEE Transactions on Dependable and Secure Computing, 2013, 10, 154-167.	3.7	12
32	Geo-registered 3D models from crowdsourced image collections. Geo-Spatial Information Science, 2013, 16, 55-60.	2.4	11
33	Classification and reconstruction of surfaces from point clouds of man-made objects. , 2011, , .		10
34	Evaluation of Large Scale Scene Reconstruction. , 2007, , .		9
35	3D model search and pose estimation from single images using VIP features. , 2008, , .		9
36	Rolling Shutter and Radial Distortion are Features for High Frame Rate Multi-camera Tracking. , 2018, , .		8

#	Article	IF	Citations
37	EgoGlass: Egocentric-View Human Pose Estimation From an Eyeglass Frame. , 2021, , .		8
38	The Misty Three Point Algorithm for Relative Pose. , 2017, , .		7
39	Differential Camera Tracking through Linearizing the Local Appearance Manifold. , 2007, , .		6
40	Years-Long Binary Image Broadcast Using Bluetooth Low Energy Beacons. , 2016, , .		6
41	Efficient Two-View Geometry Classification. Lecture Notes in Computer Science, 2015, , 53-64.	1.0	6
42	Efficient joint stereo estimation and land usage classification for multiview satellite data. , 2016, , .		5
43	Single View Parametric Building Reconstruction from Satellite Imagery. , 2017, , .		5
44	Augmenting Crowd-Sourced 3D Reconstructions Using Semantic Detections. , 2018, , .		5
45	The Domain Transform Solver. , 2019, , .		5
46	Increasing the Efficiency of Local Stereo by Leveraging Smoothness Constraints. , 2012, , .		4
47	Fast and Accurate Satellite Multi-view Stereo Using Edge-Aware Interpolation. , 2017, , .		2
48	Challenges in Wide-area Structure-from-motion. IPSJ Transactions on Computer Vision and Applications, 2010, 2, 105-120.	4.4	1
49	Synthesizing Illumination Mosaics from Internet Photo-Collections. , 2015, , .		1
50	Efficient video collection association using geometry-aware Bag-of-Iconics representations. IPSJ Transactions on Computer Vision and Applications, 2017, 9, .	4.4	1
51	An Approach for Shape from Surface Normals with Local Discontinuity Detection. , 2011, , .		0