

# Steven Mills

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4757533/publications.pdf>

Version: 2024-02-01

96  
papers

1,473  
citations

686830

13  
h-index

525886

27  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2196  
citing authors

#	ARTICLE	IF	CITATIONS
1	Colocalization of fluorescent markers in confocal microscope images of plant cells. Nature Protocols, 2008, 3, 619-628.	5.5	333
2	AXR4 Is Required for Localization of the Auxin Influx Facilitator AUX1. Science, 2006, 312, 1218-1220.	6.0	165
3	A Robot System for Pruning Grape Vines. Journal of Field Robotics, 2017, 34, 1100-1122.	3.2	136
4	LOOP Descriptor: Local Optimal-Oriented Pattern. IEEE Signal Processing Letters, 2018, 25, 635-639.	2.1	101
5	Harmony filter: A robust visual tracking system using the improved harmony search algorithm. Image and Vision Computing, 2010, 28, 1702-1716.	2.7	60
6	Advancing visibility modelling algorithms for urban environments. Computers, Environment and Urban Systems, 2010, 34, 518-531.	3.3	52
7	Bag-of-words-driven, single-camera simultaneous localization and mapping. Journal of Field Robotics, 2011, 28, 204-226.	3.2	49
8	Correcting Scale Drift by Object Recognition in Single-Camera SLAM. IEEE Transactions on Cybernetics, 2013, 43, 1767-1780.	6.2	40
9	Real-time aerial image mosaicing. , 2010, , .		39
10	Immersive Telepresence and Remote Collaboration using Mobile and Wearable Devices. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1908-1918.	2.9	35
11	Global seamline networks for orthomosaic generation via local search. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 75, 101-111.	4.9	31
12	Better than SIFT?. Machine Vision and Applications, 2015, 26, 819-836.	1.7	30
13	New Conditional Sampling Strategies for Speeded-Up RANSAC. , 2009, , .		27
14	Incorporating vegetation into visual exposure modelling in urban environments. International Journal of Geographical Information Science, 2011, 25, 851-868.	2.2	23
15	Speeded-up Bag-of-Words algorithm for robot localisation through scene recognition. , 2008, , .		22
16	Power line detection using Hough transform and line tracing techniques. , 2016, , .		21
17	Controls on fault zone structure and brittle fracturing in the foliated hanging wall of the Alpine Fault. Solid Earth, 2018, 9, 469-489.	1.2	15
18	Optical Flow for Heading Estimation of a Quadrotor Helicopter. International Journal of Micro Air Vehicles, 2009, 1, 229-239.	1.0	12

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19	Finding a vine's structure by bottom-up parsing of cane edges. , 2013, , .		12
20	Scalable Multicore k-NN Search via Subspace Clustering for Filtering. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 3449-3460.	4.0	12
21	Efficient Selection Algorithm for Fast k-NN Search on GPUs. , 2015, , .		12
22	Preaching Voxels: An Alternative Approach to Mixed Reality. Frontiers in ICT, 2019, 6, .	3.6	12
23	Image Based Visual Servo control for Fixed Wing UAVs tracking linear infrastructure in wind. , 2013, , .		11
24	Deep convolutional encoder-decoder for myelin and axon segmentation. , 2016, , .		11
25	An Egocentric Urban Viewshed: A Method for Landmark Visibility Mapping for Pedestrian Location Based Services. Lecture Notes in Geoinformation and Cartography, 2008, , 61-85.	0.5	11
26	Mobileportation. , 2020, 4, 1-16.		11
27	Principal Component Analysis Based Filtering for Scalable, High Precision k-NN Search. IEEE Transactions on Computers, 2018, 67, 252-267.	2.4	10
28	Visual tracking using the harmony search algorithm. , 2008, , .		9
29	Fast RANSAC Hypothesis Generation for Essential Matrix Estimation. , 2011, , .		9
30	Collaborative representation based fine-grained species recognition. , 2016, , .		9
31	Relative orientation and scale for improved feature matching. , 2013, , .		8
32	Hierarchical structure from motion optical flow algorithms to harvest three-dimensional features from two-dimensional neuro-endoscopic images. Journal of Clinical Neuroscience, 2015, 22, 378-382.	0.8	8
33	Reconstructing partially visible models using stereo vision, structured light, and the g2o framework. , 2012, , .		7
34	Optimising Light Source Positions to Minimise Illumination Variation for 3D Vision. , 2012, , .		7
35	Hierarchical Structure from Motion from Endoscopic Video. , 2014, , .		7
36	Data filtering for scalable high-dimensional k-NN search on multicore systems. , 2014, , .		7

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37	Comparative usability of an augmented reality sandtable and 3D GIS for education. International Journal of Geographical Information Science, 2020, 34, 229-250.	2.2	7
38	Feature set reduction for image matching in large scale environments. , 2012, , .		6
39	Conditional random fields incorporate convolutional neural networks for human eye sclera semantic segmentation. , 2017, , .		6
40	Four- and Seven-Point Relative Camera Pose from Oriented Features. , 2018, , .		6
41	SPLAT: Spherical Localization and Tracking in Large Spaces. , 2020, , .		6
42	Design and calibration of a hybrid computer vision and structured light 3D imaging system. , 2011, , .		5
43	Towards a Māori Telepresence System. , 2019, , .		5
44	Three-Dimensional Separation and Characterization of Fractures in X-Ray Computed Tomographic Images of Rocks. Frontiers in Earth Science, 2020, 8, .	0.8	5
45	A Decision-Theoretic Formulation for Sparse Stereo Correspondence Problems. , 2014, , .		4
46	Accelerated Relative Camera Pose from Oriented Features. , 2015, , .		4
47	Distributed sparse bundle adjustment algorithm based on three-dimensional point partition and asynchronous communication. Frontiers of Information Technology and Electronic Engineering, 2018, 19, 889-904.	1.5	4
48	Mixed Reality Co-Design for Indigenous Culture Preservation & Continuation. , 2022, , .		4
49	Combined thermal-LIDAR imagery for urban mapping. , 2008, , .		3
50	Investigating large-scale feature matching using the Intel&#x00AE; Xeon Phi&#x2122; coprocessor. , 2013, , .		3
51	Performance Bottlenecks in Manycore Systems: A Case Study on Large Scale Feature Matching within Image Collections. , 2013, , .		3
52	Distance Metric Learned Collaborative Representation Classifier(DML-CRC). IEEE Letters of the Computer Society, 2020, 3, 34-37.	1.1	3
53	Directed correspondence search: Finding feature correspondences in images using the Harmony Search algorithm. , 2009, , .		2
54	The design and calibration of a 3D motion capture system for arthropods. , 2013, , .		2

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55	Large-scale feature matching with distributed and heterogeneous computing. , 2013, , .		2
56	Action recognition based on principal geodesic analysis. , 2013, , .		2
57	Performance Tuning on Multicore Systems for Feature Matching within Image Collections. , 2013, , .		2
58	Improving Spatial Context in CNNs for Semantic Medical Image Segmentation. , 2017, , .		2
59	NOKMeans: Non-Orthogonal K-means Hashing. Lecture Notes in Computer Science, 2015, , 162-177.	1.0	2
60	A Model for Learning Representations of 3D Objects Through Tactile Exploration: Effects of Object Asymmetries and Landmarks. Lecture Notes in Computer Science, 2018, , 271-283.	1.0	2
61	Relative Camera Rotation from a Single Oriented Correspondence. , 2021, , .		2
62	A Bag-of-Words Speedometer for single camera SLAM. , 2009, , .		1
63	Vision based indoor scene localization via smart phone. , 2012, , .		1
64	Detecting structured light patterns in colour images using a support vector machine. , 2013, , .		1
65	The integral image method for fisheye images. , 2013, , .		1
66	Improved Spectral Clustering Using Adaptive Mahalanobis Distance. , 2013, , .		1
67	Principal Component Representations of Chewing Motion. , 2014, , .		1
68	Voxel carving for collision avoidance for a vine pruning robot arm. , 2014, , .		1
69	Optimal space subdivision for parallel approximate nearest neighbour determination. , 2015, , .		1
70	Discriminative touch from pressure sensors. , 2015, , .		1
71	PCAF: Scalable, High Precision k-NN Search Using Principal Component Analysis Based Filtering. , 2016, , .		1
72	CNN for historic handwritten document search. , 2017, , .		1

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73	Photogrammetric debitage analysis: Measuring Maori toolmaking evidence. , 2017, , .		1
74	Fine-grained Collaborative K-Means Clustering. , 2018, , .		1
75	Softposit for Augmented Reality in Complex Environments: Limitations and Challenges. , 2018, , .		1
76	Visual Tracking Using Harmony Search. Studies in Computational Intelligence, 2010, , 37-50.	0.7	1
77	Design and Calibration of Multi-camera Systems for 3D Computer Vision: Lessons Learnt from Two Case Studies. Lecture Notes in Computer Science, 2016, , 206-219.	1.0	1
78	CoCoNet: A Collaborative Convolutional Network applied to fine-grained bird species classification. , 2020, , .		1
79	Using graph layout to generalise focus+context image magnification and distortion. , 2012, , .		0
80	3D versus 2D based indoor image matching analysis on images from low cost mobile devices. , 2013, , .		0
81	Parallel and Distributed Mosaic Seamline Estimation. , 2014, , .		0
82	3D Face Tracking in Fisheye Stereo Video Using Particle Filters. , 2014, , .		0
83	Emergent Properties from Feature Co-occurrence in Image Collections. , 2014, , .		0
84	Kinematic Spider Tracking with PoseCut. , 2014, , .		0
85	Adapting generic trackers for tracking faces. , 2015, , .		0
86	Mutual information of image intensity and gradient flux for markerless pose estimation. , 2015, , .		0
87	How to select hashing bits? A direct measurement approach. , 2015, , .		0
88	Embodied Earth: Experiencing natural phenomena. , 2016, , .		0
89	Of mice, men, and machines: Real and artificial deep networks for vision. , 2017, , .		0
90	Stacked Hourglass CNN for Handwritten Character Location. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
91	A Light in Dark Places – 3D Reconstruction from Stereo Views with a Moving Light Source. , 2019, , .		0
92	Body Part Labelling with Minkowski Networks. , 2019, , .		0
93	Stitching Partial 3D Models with an Application to Modelling Stone Flakes. , 2019, , .		0
94	A Neural Network Model for Learning 3D Object Representations Through Haptic Exploration. Frontiers in Neurorobotics, 2021, 15, 639001.	1.6	0
95	A combined GIS and stereo vision approach to identify building pixels in images and determine appropriate color terms. Journal of Spatial Information Science, 2011, , .	1.1	0
96	PProCRC: Probabilistic Collaboration of Image Patches for Fine-grained Classification. , 2020, , .		0