

Fredrik Kahl

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,758
citations

471371

17
h-index

395590

33
g-index

51
all docs

51
docs citations

51
times ranked

1233
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple-View Geometry Under the $\{L_\infty\}$ -Norm. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1603-1617.	9.7	204
2	Global Optimization through Rotation Space Search. International Journal of Computer Vision, 2009, 82, 64-79.	10.9	182
3	Cloud-Based Evaluation of Anatomical Structure Segmentation and Landmark Detection Algorithms: VISCERAL Anatomy Benchmarks. IEEE Transactions on Medical Imaging, 2016, 35, 2459-2475.	5.4	127
4	Branch-and-Bound Methods for Euclidean Registration Problems. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 783-794.	9.7	112
5	Conditional Random Fields Meet Deep Neural Networks for Semantic Segmentation: Combining Probabilistic Graphical Models with Deep Learning for Structured Prediction. IEEE Signal Processing Magazine, 2018, 35, 37-52.	4.6	99
6	Practical Global Optimization for Multiview Geometry. International Journal of Computer Vision, 2008, 79, 271-284.	10.9	77
7	Optimal Algorithms in Multiview Geometry. , 2007, , 13-34.		65
8	Globally Optimal Estimates for Geometric Reconstruction Problems. International Journal of Computer Vision, 2007, 74, 3-15.	10.9	61
9	Curvature regularity for region-based image segmentation and inpainting: A linear programming relaxation. , 2009, , .		60
10	Critical Motions for Auto-Calibration When Some Intrinsic Parameters Can Vary. Journal of Mathematical Imaging and Vision, 2000, 13, 131-146.	0.8	59
11	A polynomial-time bound for matching and registration with outliers. , 2008, , .		56
12	Parallel and distributed graph cuts by dual decomposition. , 2010, , .		51
13	Global Optimization through Searching Rotation Space and Optimal Estimation of the Essential Matrix. , 2007, , .		49
14	Fine-Grained Segmentation Networks: Self-Supervised Segmentation for Improved Long-Term Visual Localization. , 2019, , .		46
15	Affine Structure and Motion from Points, Lines and Conics. International Journal of Computer Vision, 1999, 33, 163-180.	10.9	43
16	Critical Configurations for Projective Reconstruction from Multiple Views. International Journal of Computer Vision, 2007, 71, 5-47.	10.9	40
17	Solving Large Scale Binary Quadratic Problems: Spectral Methods vs. Semidefinite Programming. , 2007, , .		31
18	A minimal solution for relative pose with unknown focal length. Image and Vision Computing, 2008, 26, 871-877.	2.7	30

#	ARTICLE	IF	CITATIONS
19	Robust Fitting for Multiple View Geometry. Lecture Notes in Computer Science, 2012, , 738-751.	1.0	30
20	Tractable Algorithms for Robust Model Estimation. International Journal of Computer Vision, 2015, 112, 115-129.	10.9	28
21	Normalized Cuts Revisited: A Reformulation for Segmentation with Linear Grouping Constraints. , 2007, , .		23
22	Normalized Cuts Revisited: A Reformulation for Segmentation with Linear Grouping Constraints. Journal of Mathematical Imaging and Vision, 2011, 39, 45-61.	0.8	23
23	Generalized roof duality for pseudo-boolean optimization. , 2011, , .		23
24	Generalized roof duality. Discrete Applied Mathematics, 2012, 160, 2419-2434.	0.5	22
25	Robust Optimal Pose Estimation. Lecture Notes in Computer Science, 2008, , 141-153.	1.0	21
26	Efficient optimization for L&sub∞&sub&-problems using pseudoconvexity. , 2007, , .		19
27	Generalized Convexity in Multiple View Geometry. Journal of Mathematical Imaging and Vision, 2010, 38, 35-51.	0.8	18
28	Åœberatlas: Fast and robust registration for multi-atlas segmentation. Pattern Recognition Letters, 2016, 80, 249-255.	2.6	13
29	Triangulation of Points, Lines and Conics. Journal of Mathematical Imaging and Vision, 2008, 32, 215-225.	0.8	11
30	Verifying Global Minima for L 2 Minimization Problems in Multiple View Geometry. International Journal of Computer Vision, 2013, 101, 288-304.	10.9	11
31	Ambiguous Configurations for the 1D Structure and Motion Problem. Journal of Mathematical Imaging and Vision, 2003, 18, 191-203.	0.8	10
32	An L&sub∞&sub& approach to structure and motion problems in ID-vision. , 2007, , .		9
33	Projective least-squares: Global solutions with local optimization. , 2009, , .		8
34	Parallel and distributed vision algorithms using dual decomposition. Computer Vision and Image Understanding, 2011, 115, 1721-1732.	3.0	8
35	Fast and Reliable Two-View Translation Estimation. , 2014, , .		8
36	Affine Reconstruction from Translational Motion under Various Autocalibration Constraints. Journal of Mathematical Imaging and Vision, 2006, 24, 245-257.	0.8	6

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37	Shape-aware label fusion for multi-atlas frameworks. Pattern Recognition Letters, 2019, 124, 109-117.	2.6	6
38	Efficient algorithms for robust estimation of relative translation. Image and Vision Computing, 2016, 52, 114-124.	2.7	5
39	On the Tightness of Semidefinite Relaxations for Rotation Estimation. Journal of Mathematical Imaging and Vision, 2022, 64, 57-67.	0.8	5
40	Revisiting Deep Structured Models for Pixel-Level Labeling with Gradient-Based Inference. SIAM Journal on Imaging Sciences, 2018, 11, 2610-2628.	1.3	4
41	Affine Structure from Translational Motion in Image Sequences. Lecture Notes in Computer Science, 2003, , 387-394.	1.0	3
42	A Combinatorial Approach to L_1 -Matrix Factorization. Journal of Mathematical Imaging and Vision, 2015, 51, 430-441.	0.8	2
43	Triangulation of Points, Lines and Conics. , 2007, , 162-172.		2
44	Image Segmentation with Context. , 2007, , 283-292.		2
45	Multiatlas Segmentation Using Robust Feature-Based Registration. , 2017, , 203-218.		2
46	Global Optimization for One-Dimensional Structure and Motion Problems. SIAM Journal on Imaging Sciences, 2010, 3, 1075-1095.	1.3	1
47	Globally Optimal Least Squares Solutions for Quasiconvex 1D Vision Problems. Lecture Notes in Computer Science, 2009, , 686-695.	1.0	1
48	Camera Resectioning from a Box. Lecture Notes in Computer Science, 2009, , 259-268.	1.0	1
49	A Quasiconvex Formulation for Radial Cameras. , 2021, , .		1
50	Tighter Relaxations for Higher-Order Models Based on Generalized Roof Duality. Lecture Notes in Computer Science, 2012, , 273-282.	1.0	0