

Kenichi Kanatani

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

745
citations

14
h-index

26
g-index

53
ext. papers

876
ext. citations

3.3
avg, IF

4.46
L-index

#	Paper	IF	Citations
49	Hyper least squares fitting of circles and ellipses. <i>Computational Statistics and Data Analysis</i> , 2011 , 55, 2197-2208	1.6	85
48	Geometric Information Criterion for Model Selection. <i>International Journal of Computer Vision</i> , 1998 , 26, 171-189	10.6	62
47	Statistical Optimization for Geometric Fitting: Theoretical Accuracy Bound and High Order Error Analysis. <i>International Journal of Computer Vision</i> , 2008 , 80, 167-188	10.6	62
46	Geometric Structure of Degeneracy for Multi-body Motion Segmentation. <i>Lecture Notes in Computer Science</i> , 2004 , 13-25	0.9	47
45	Uncertainty modeling and model selection for geometric inference. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2004 , 26, 1307-19	13.3	45
44	Computational projective geometry. <i>CVGIP Image Understanding</i> , 1991 , 54, 333-348		41
43	CramerBao Lower Bounds for Curve Fitting. <i>Graphical Models</i> , 1998 , 60, 93-99		37
42	3-D interpretation of optical flow by renormalization. <i>International Journal of Computer Vision</i> , 1993 , 11, 267-282	10.6	37
41	MOTION SEGMENTATION BY SUBSPACE SEPARATION: MODEL SELECTION AND RELIABILITY EVALUATION. <i>International Journal of Image and Graphics</i> , 2002 , 02, 179-197	0.5	33
40	Unified Computation of Strict Maximum Likelihood for Geometric Fitting. <i>Journal of Mathematical Imaging and Vision</i> , 2010 , 38, 1-13	1.6	28
39	Calibration of ultrawide fisheye lens cameras by eigenvalue minimization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 813-22	13.3	26
38	Performance evaluation of iterative geometric fitting algorithms. <i>Computational Statistics and Data Analysis</i> , 2007 , 52, 1208-1222	1.6	26
37	Improved algebraic methods for circle fitting. <i>Electronic Journal of Statistics</i> , 2009 , 3,	1.2	21
36	Uncertainty Modeling for Optimal Structure from Motion. <i>Lecture Notes in Computer Science</i> , 2000 , 200-217		16
35	Stabilizing the Focal Length Computation for 3-D Reconstruction from Two Uncalibrated Views. <i>International Journal of Computer Vision</i> , 2006 , 66, 109-122	10.6	14
34	HyperLS for Parameter Estimation in Geometric Fitting. <i>IPSJ Transactions on Computer Vision and Applications</i> , 2011 , 3, 80-94	3.3	12
33	Guide to 3D Vision Computation. <i>Advances in Computer Vision and Pattern Recognition</i> , 2016 ,	1.1	12

32	Compact algorithm for strictly ML ellipse fitting 2008 ,		11
31	Ellipse Fitting for Computer Vision: Implementation and Applications. <i>Synthesis Lectures on Computer Vision</i> , 2016 , 6, 1-141	1	11
30	Renormalization Returns: Hyper-renormalization and Its Applications. <i>Lecture Notes in Computer Science</i> , 2012 , 384-397	0.9	10
29	Reconstruction of consistent shape from inconsistent data: Optimization of $(2^{\text{raise0.5ex}\{\text{scriptstyle 1}\}\text{kern-0.1em}/\text{kern-0.15em}\text{lower0.25ex}\{\text{scriptstyle 2}\}})$ D sketches. <i>International Journal of Computer Vision</i> , 1989 , 3, 261-292	10.6	9
28	Calibration of a Moving Camera Using a Planar Pattern: Optimal Computation, Reliability Evaluation, and Stabilization by Model Selection. <i>Lecture Notes in Computer Science</i> , 2000 , 595-609	0.9	9
27	Statistical optimization and geometric inference in computer vision. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1998 , 356, 1303-1320	3	8
26	Hyper-renormalization: Non-minimization Approach for Geometric Estimation. <i>IP SJ Transactions on Computer Vision and Applications</i> , 2014 , 6, 143-159	3.3	7
25	Computing internally constrained motion of 3-D sensor data for motion interpretation. <i>Pattern Recognition</i> , 2013 , 46, 1700-1709	7.7	7
24	Stabilizing Image Mosaicing by Model Selection. <i>Lecture Notes in Computer Science</i> , 2001 , 35-51	0.9	7
23	High Accuracy Ellipse-Specific Fitting. <i>Lecture Notes in Computer Science</i> , 2014 , 314-324	0.9	6
22	Hyperaccurate Correction of Maximum Likelihood for Geometric Estimation. <i>IP SJ Transactions on Computer Vision and Applications</i> , 2013 , 5, 19-29	3.3	6
21	Hypothesizing and testing geometric properties of image data. <i>CVGIP Image Understanding</i> , 1991 , 54, 349-357		6
20	Road shape reconstruction by local flatness approximation. <i>Advanced Robotics</i> , 1991 , 6, 197-213	1.7	5
19	Interpretation of conic motion and its applications. <i>International Journal of Computer Vision</i> , 1993 , 10, 67-84	10.6	5
18	Statistical Optimization for Geometric Estimation: Minimization vs. Non-minimization 2014 ,		4
17	LATEST ALGORITHMS FOR 3-D RECONSTRUCTION FROM TWO VIEWS 2009 , 201-234		4
16	Hyper Least Squares and Its Applications 2010 ,		3
15	Uncertainty Modeling and Geometric Inference 2005 , 461-491		3

14	Optimal grid pattern for focal length calibration. <i>Advanced Robotics</i> , 1995 , 10, 81-103	1.7	2
13	Optimization without Minimization Search: Constraint Satisfaction by Orthogonal Projection with Applications to Multiview Triangulation. <i>IEICE Transactions on Information and Systems</i> , 2010 , E93-D, 2836-2845	0.6	2
12	Geometric BIC. <i>IEICE Transactions on Information and Systems</i> , 2010 , E93-D, 144-151	0.6	1
11	Ellipse Fitting. <i>Advances in Computer Vision and Pattern Recognition</i> , 2016 , 11-32	1.1	1
10	Compact Fundamental Matrix Computation. <i>Lecture Notes in Computer Science</i> , 2009 , 179-190	0.9	1
9	Calibration of a moving camera using a planar pattern: Optimal computation, reliability evaluation, and stabilization by the geometric AIC. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 2001 , 84, 12-21		
8	Fast display of curves and surfaces with correct topology in all resolutions. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 2001 , 84, 1-11		
7	Statistical Reliability of 3-D Interpretation from Images 1993 , 149-154		
6	Accuracy of Geometric Estimation. <i>Advances in Computer Vision and Pattern Recognition</i> , 2016 , 213-229	1.1	
5	Maximum Likelihood of Geometric Estimation. <i>Advances in Computer Vision and Pattern Recognition</i> , 2016 , 231-242	1.1	
4	Theoretical Accuracy Limit. <i>Advances in Computer Vision and Pattern Recognition</i> , 2016 , 243-254	1.1	
3	Optimization Techniques for Geometric Estimation: Beyond Minimization. <i>Lecture Notes in Computer Science</i> , 2012 , 11-30	0.9	
2	Fundamental Matrix Computation. <i>Advances in Computer Vision and Pattern Recognition</i> , 2016 , 33-57	1.1	
1	3D Reconstruction from Two Views. <i>Advances in Computer Vision and Pattern Recognition</i> , 2016 , 69-80	1.1	