Kenichi Kanatani

List of Publications by Year in Descending Order

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	Accuracy of Geometric Estimation. *Advances in Computer Vision and Pattern Recognition*, **2016**, 213-229	1.1	
48	Ellipse Fitting. *Advances in Computer Vision and Pattern Recognition*, **2016**, 11-32	1.1	1
47	Maximum Likelihood of Geometric Estimation. *Advances in Computer Vision and Pattern Recognition*, **2016**, 231-242	1.1	
46	Theoretical Accuracy Limit. *Advances in Computer Vision and Pattern Recognition*, **2016**, 243-254	1.1	
45	Guide to 3D Vision Computation. *Advances in Computer Vision and Pattern Recognition*, **2016**,	1.1	12
44	Fundamental Matrix Computation. *Advances in Computer Vision and Pattern Recognition*, **2016**, 33-57	1.1	
43	3D Reconstruction from Two Views. *Advances in Computer Vision and Pattern Recognition*, **2016**, 69-80	1.1	
42	Ellipse Fitting for Computer Vision: Implementation and Applications. *Synthesis Lectures on Computer Vision*, **2016**, 6, 1-141	1	11
41	High Accuracy Ellipse-Specific Fitting. *Lecture Notes in Computer Science*, **2014**, 314-324	0.9	6
40	Hyper-renormalization: Non-minimization Approach for Geometric Estimation. *IPSJ Transactions on Computer Vision and Applications*, **2014**, 6, 143-159	3.3	7
39	Statistical Optimization for Geometric Estimation: Minimization vs. Non-minimization **2014**,		4
38	Calibration of ultrawide fisheye lens cameras by eigenvalue minimization. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2013**, 35, 813-22	13.3	26
37	Computing internally constrained motion of 3-D sensor data for motion interpretation. *Pattern Recognition*, **2013**, 46, 1700-1709	7.7	7
36	Hyperaccurate Correction of Maximum Likelihood for Geometric Estimation. *IPSJ Transactions on Computer Vision and Applications*, **2013**, 5, 19-29	3.3	6
35	Renormalization Returns: Hyper-renormalization and Its Applications. *Lecture Notes in Computer Science*, **2012**, 384-397	0.9	10
34	Optimization Techniques for Geometric Estimation: Beyond Minimization. *Lecture Notes in Computer Science*, **2012**, 11-30	0.9	
33	HyperLS for Parameter Estimation in Geometric Fitting. *IPSJ Transactions on Computer Vision and Applications*, **2011**, 3, 80-94	3.3	12

32	Hyper least squares fitting of circles and ellipses. *Computational Statistics and Data Analysis*, **2011**, 55, 2197-2208	1.6	85
31	Hyper Least Squares and Its Applications **2010**,		3
30	Geometric BIC. *IEICE Transactions on Information and Systems*, **2010**, E93-D, 144-151	0.6	1
29	Unified Computation of Strict Maximum Likelihood for Geometric Fitting. *Journal of Mathematical Imaging and Vision*, **2010**, 38, 1-13	1.6	28
28	Optimization without Minimization Search: Constraint Satisfaction by Orthogonal Projection with Applications to Multiview Triangulation. *IEICE Transactions on Information and Systems*, **2010**, E93-D, 2836-2845	0.6	2
27	Improved algebraic methods for circle fitting. *Electronic Journal of Statistics*, **2009**, 3,	1.2	21
26	LATEST ALGORITHMS FOR 3-D RECONSTRUCTION FROM TWO VIEWS **2009**, 201-234		4
25	Compact Fundamental Matrix Computation. *Lecture Notes in Computer Science*, **2009**, 179-190	0.9	1
24	Compact algorithm for strictly ML ellipse fitting **2008**,		11
23	Statistical Optimization for Geometric Fitting: Theoretical Accuracy Bound and High Order Error Analysis. *International Journal of Computer Vision*, **2008**, 80, 167-188	10.6	62
22	Performance evaluation of iterative geometric fitting algorithms. *Computational Statistics and Data Analysis*, **2007**, 52, 1208-1222	1.6	26
21	Stabilizing the Focal Length Computation for 3-D Reconstruction from Two Uncalibrated Views. *International Journal of Computer Vision*, **2006**, 66, 109-122	10.6	14
20	Uncertainty Modeling and Geometric Inference **2005**, 461-491		3
19	Geometric Structure of Degeneracy for Multi-body Motion Segmentation. *Lecture Notes in Computer Science*, **2004**, 13-25	0.9	47
18	Uncertainty modeling and model selection for geometric inference. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2004**, 26, 1307-19	13.3	45
17	MOTION SEGMENTATION BY SUBSPACE SEPARATION: MODEL SELECTION AND RELIABILITY EVALUATION. *International Journal of Image and Graphics*, **2002**, 02, 179-197	0.5	33
16	Calibration of a moving camera using a planar pattern: Optimal computation, reliability evaluation, and stabilization by the geometric AIC. *Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)*, **2001**, 84, 12-21		
15	Fast display of curves and surfaces with correct topology in all resolutions. *Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)*, **2001**, 84, 1-11		

14	Stabilizing Image Mosaicing by Model Selection. *Lecture Notes in Computer Science*, **2001**, 35-51	0.9	7
13	Uncertainty Modeling for Optimal Structure from Motion. *Lecture Notes in Computer Science*, **2000**, 200-217	0.9	16
12	Calibration of a Moving Camera Using a Planar Pattern: Optimal Computation, Reliability Evaluation, and Stabilization by Model Selection. *Lecture Notes in Computer Science*, **2000**, 595-609	0.9	9
11	Geometric Information Criterion for Model Selection. *International Journal of Computer Vision*, **1998**, 26, 171-189	10.6	62
10	CramerRao Lower Bounds for Curve Fitting. *Graphical Models*, **1998**, 60, 93-99		37
9	Statistical optimization and geometric inference in computer vision. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **1998**, 356, 1303-1320	3	8
8	Optimal grid pattern for focal length calibration. *Advanced Robotics*, **1995**, 10, 81-103	1.7	2
7	Interpretation of conic motion and its applications. *International Journal of Computer Vision*, **1993**, 10, 67-84	10.6	5
6	3-D interpretation of optical flow by renormalization. *International Journal of Computer Vision*, **1993**, 11, 267-282	10.6	37
5	Statistical Reliability of 3-D Interpretation from Images **1993**, 149-154		
4	Computational projective geometry. *CVGIP Image Understanding*, **1991**, 54, 333-348		41
3	Hypothesizing and testing geometric properties of image data. *CVGIP Image Understanding*, **1991**, 54, 349-357		6
2	Road shape reconstruction by local flatness approximation. *Advanced Robotics*, **1991**, 6, 197-213	1.7	5
1	Reconstruction of consistent shape from inconsistent data: Optimization of (2{raise0.5exhbox{$scriptstyle 1$}kern-0.1em/kern-0.15emlower0.25exhbox{$scriptstyle 2$}})D sketches. *International Journal of Computer Vision*, **1989**, 3, 261-292	10.6	9