Tat-Jun Chin

List of Publications by Year
in descending order

69 papers	**2,014** citations	394421 **19** h-index	395702 **33** g-index
69 all docs	**69** docs citations	**69** times ranked	**1641** citing authors

#	Article	IF	Citations
1	Incremental Kernel Principal Component Analysis. IEEE Transactions on Image Processing, 2007, 16, 1662-1674.	9.8	148
2	A comprehensive genomic history of extinct and living elephants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2566-E2574.	7.1	142
3	Visual tracking via weakly supervised learning from multiple imperfect oracles. Pattern Recognition, 2014, 47, 1395-1410.	8.1	115
4	Guaranteed Outlier Removal for Point Cloud Registration with Correspondences. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2868-2882.	13.9	107
5	Dynamic and hierarchical multi-structure geometric model fitting. , 2011, , .		95
6	The Random Cluster Model for Robust Geometric Fitting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1658-1671.	13.9	95
7	Simultaneously Fitting and Segmenting Multiple-Structure Data with Outliers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1177-1192.	13.9	94
8	Accelerated Hypothesis Generation for Multistructure Data via Preference Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 625-638.	13.9	90
9	A Multiple Hypothesis Tracker for Multitarget Tracking With Multiple Simultaneous Measurements. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 448-460.	10.8	77
10	Satellite Pose Estimation with Deep Landmark Regression and Nonlinear Pose Refinement. , 2019, , .		69
11	Rotation Averaging and Strong Duality. , 2018, , .		55
12	Practical optimal registration of terrestrial LiDAR scan pairs. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 147, 118-131.	11.1	48
13	Efficient globally optimal consensus maximisation with tree search. , 2015, , .		45
14	Fast Rotation Search with Stereographic Projections for 3D Registration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2227-2240.	13.9	43
15	Interacting Geometric Priors For Robust Multimodel Fitting. IEEE Transactions on Image Processing, 2014, 23, 4601-4610.	9.8	42
16	Scalable Place Recognition Under Appearance Change for Autonomous Driving. , 2019, , .		42
17	The Maximum Consensus Problem: Recent Algorithmic Advances. Synthesis Lectures on Computer Vision, 2017, 7, 1-194.	0.6	40
18	Fast Rotation Search with Stereographic Projections for 3D Registration. , 2014, , .		39

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19	A Consensus-Based Framework for Distributed Bundle Adjustment. , 2016, , .		39
20	Motion Segmentation Via a Sparsity Constraint. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 973-983.	8.0	36
21	Globally Optimal Contrast Maximisation for Event-Based Motion Estimation. , 2020, , .		31
22	Robust fitting of multiple structures: The statistical learning approach. , 2009, , .		30
23	Guaranteed Outlier Removal with Mixed Integer Linear Programs. , 2016, , .		30
24	Out-of-Sample Extrapolation of Learned Manifolds. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1547-1556.	13.9	29
25	An Exact Penalty Method for Locally Convergent Maximum Consensus. , 2017, , .		27
26	Sampling Minimal Subsets with Large Spans for Robust Estimation. International Journal of Computer Vision, 2014, 106, 93-112.	15.6	26
27	Robust Fitting in Computer Vision: Easy or Hard?. Lecture Notes in Computer Science, 2018, , 715-730.	1.3	26
28	Efficient Point Process Inference for Large-Scale Object Detection. , 2016, , .		24
29	Visual SLAM: Why Bundle Adjust?. , 2019, , .		23
30	NeuRoRA: Neural Robust Rotation Averaging. Lecture Notes in Computer Science, 2020, , 137-154.	1.3	21
31	Robust Fitting in Computer Vision: Easy or Hard?. International Journal of Computer Vision, 2020, 128, 575-587.	15.6	20
32	Deterministic Approximate Methods for Maximum Consensus Robust Fitting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 842-857.	13.9	20
33	Deterministic Consensus Maximization with Biconvex Programming. Lecture Notes in Computer Science, 2018, , 699-714.	1.3	20
34	Guaranteed Outlier Removal for Rotation Search. , 2015, , .		18
35	Mode seeking over permutations for rapid geometric model fitting. Pattern Recognition, 2013, 46, 257-271.	8.1	17
36	Spatiotemporal Registration for Event-based Visual Odometry. , 2021, , .		17

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37	Multi-structure model selection via kernel optimisation. , 2010, , .		16
38	Robust foreground segmentation and image registration for optical detection of GEO objects. Advances in Space Research, 2019, 64, 733-746.	2.6	16
39	Rotation Averaging with the Chordal Distance: Global Minimizers and Strong Duality. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 43, 1-1.	13.9	15
40	Topological Sweep for Multi-Target Detection of Geostationary Space Objects. IEEE Transactions on Signal Processing, 2020, 68, 5166-5177.	5.3	15
41	A simultaneous sample-and-filter strategy for robust multi-structure model fitting. Computer Vision and Image Understanding, 2013, 117, 1755-1769.	4.7	14
42	Boosting histograms of descriptor distances for scalable multiclass specific scene recognition. Image and Vision Computing, 2011, 29, 241-250.	4.5	8
43	An Adversarial Optimization Approach to Efficient Outlier Removal. Journal of Mathematical Imaging and Vision, 2014, 48, 451-466.	1.3	8
44	Retrieving 3D CAD models using 2D images with optimized weights. , 2010, , .		7
45	Coresets for Triangulation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2095-2108.	13.9	7
46	Monocular Rotational Odometry with Incremental Rotation Averaging and Loop Closure. , 2020, , .		7
47	Conformal Surface Alignment with Optimal Möbius Search. , 2016, , .		6
48	Practical Motion Segmentation for Urban Street View Scenes. , 2018, , .		6
49	Quantum Annealing Formulation for Binary Neural Networks. , 2021, , .		6
50	Smooth Globally Warp Locally: Video Stabilization Using Homography Fields. , 2015, , .		5
51	Accelerated Guided Sampling for Multistructure Model Fitting. IEEE Transactions on Cybernetics, 2020, 50, 4530-4543.	9.5	5
52	A branch-and-bound algorithm for checkerboard extraction in camera-laser calibration. , 2017, , .		4
53	RATSAC - Random Tree Sampling for Maximum Consensus Estimation. , 2017, , .		4
54	Rotation Coordinate Descent for Fast Globally Optimal Rotation Averaging. , 2021, , .		4

#	Article	IF	Citations
55	High Breakdown Bundle Adjustment. , 2015, , .		3
56	Spot the GEO Satellites: From Dataset to Kelvins SpotGEO Challenge. , 2021, , .		3
57	Mobile phone-based mixed reality: the Snap2Play game. Visual Computer, 2009, 25, 25-37.	3.5	2
58	The Random Cluster Model for robust geometric fitting. , 2012, , .		2
59	Visual localization under appearance change: filtering approaches. Neural Computing and Applications, 2021, 33, 7325-7338.	5.6	2
60	HM^4: Hidden Markov Model With Memory Management for Visual Place Recognition. IEEE Robotics and Automation Letters, 2021, 6, 167-174.	5.1	2
61	Learning to Predict Repeatability of Interest Points. , 2021, , .		2
62	Keypoint induced distance profiles for visual recognition. , 2009, , .		1
63	Visual localization and segmentation based on foreground/background modeling. , 2010, , .		1
64	Adaptive human silhouette reconstruction based on the exploration of temporal information. , 2012, , .		1
65	SPRINT: Subgraph Place Recognition for INtelligent Transportation. , 2020, , .		1
66	Quantum Robust Fitting. Lecture Notes in Computer Science, 2021, , 485-499.	1.3	1
67	Point Correspondence Validation under Unknown Radial Distortion. , 2013, , .		0
68	A Chaos Theory Approach to Understand Neural Network Optimization. , 2021, , .		0
69	Keypoint induced distance profiles for visual recognition. , 2009, , .		0