JiÅÃ̲ Matas

List of Publications by Year
in descending order

97 papers	**10,555** citations	361045 **20** h-index	197535 **49** g-index
98 all docs	**98** docs citations	**98** times ranked	**6169** citing authors

#	Article	IF	Citations
1	Early queen infection shapes developmental dynamics and induces long‑term disease protection in incipient ant colonies. Ecology Letters, 2022, 25, 89-100.	3.0	10
2	Automatic Fungi Recognition: Deep Learning Meets Mycology. Sensors, 2022, 22, 633.	2.1	14
3	Lightweight Monocular Depth with a Novel Neural Architecture Search Method. , 2022, , .		4
4	Performance Evaluation Methodology for Long-Term Single-Object Tracking. IEEE Transactions on Cybernetics, 2021, 51, 6305-6318.	6.2	16
5	Image Matching Across Wide Baselines: From Paper to Practice. International Journal of Computer Vision, 2021, 129, 517-547.	10.9	172
6	Text Recognition - Real World Data and Where to Find Them. , 2021, , .		3
7	FEDS - Filtered Edit Distance Surrogate. Lecture Notes in Computer Science, 2021, , 171-186.	1.0	1
8	Ballroom Dance Recognition from Audio Recordings. , 2021, , .		1
9	DAL: A Deep Depth-Aware Long-term Tracker. , 2021, , .		8
10	Guest Editorial: Special Issue on "Computer Vision for All Seasons: Adverse Weather and Lighting Conditions". International Journal of Computer Vision, 2021, 129, 2031-2033.	10.9	0
11	Tracking by Deblatting. International Journal of Computer Vision, 2021, 129, 2583-2604.	10.9	3
12	Acoustic Vehicle Speed Estimation From Single Sensor Measurements. IEEE Sensors Journal, 2021, 21, 23317-23324.	2.4	11
13	Efficient Initial Pose-graph Generation for Global SfM. , 2021, , .		11
14	DeFMO: Deblurring and Shape Recovery of Fast Moving Objects. , 2021, , .		24
15	Neural network-based acoustic vehicle counting. , 2021, , .		4
16	Boosting Monocular Depth Estimation with Lightweight 3D Point Fusion. , 2021, , .		7
17	FMODetect: Robust Detection of Fast Moving Objects. , 2021, , .		7
18	Saddle: Fast and repeatable features with good coverage. Image and Vision Computing, 2020, 97, 3807.	2.7	4

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19	MAGSAC++, a Fast, Reliable and Accurate Robust Estimator. , 2020, , .		122
20	Restoration of Fast Moving Objects. IEEE Transactions on Image Processing, 2020, 29, 8577-8589.	6.0	8
21	Guiding Monocular Depth Estimation Using Depth-Attention Volume. Lecture Notes in Computer Science, 2020, , 581-597.	1.0	57
22	Learning Surrogates via Deep Embedding. Lecture Notes in Computer Science, 2020, , 205-221.	1.0	5
23	The Eighth Visual Object Tracking VOT2020 Challenge Results. Lecture Notes in Computer Science, 2020, , 547-601.	1.0	81
24	Autonomous Car Chasing. Lecture Notes in Computer Science, 2020, , 337-352.	1.0	4
25	Robust Audio-Based Vehicle Counting in Low-to-Moderate Traffic Flow. , 2020, , .		6
26	E2E-MLT - An Unconstrained End-to-End Method for Multi-language Scene Text. Lecture Notes in Computer Science, 2019, , 127-143.	1.0	28
27	FuCoLoT â€" A Fully-Correlational Long-Term Tracker. Lecture Notes in Computer Science, 2019, , 595-611.	1.0	24
28	HPatches: A benchmark and evaluation of handcrafted and learned local descriptors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	9.7	13
29	Performance analysis of single-query 6-DoF camera pose estimation in self-driving setups. Computer Vision and Image Understanding, 2019, 186, 58-73.	3.0	5
30	Gyroscope-Aided Motion Deblurring with Deep Networks. , 2019, , .		23
31	The Sixth Visual Object Tracking VOT2018 Challenge Results. Lecture Notes in Computer Science, 2019, , 3-53.	1.0	152
32	How to Make an RGBD Tracker?. Lecture Notes in Computer Science, 2019, , 148-161.	1.0	23
33	The Seventh Visual Object Tracking VOT2019 Challenge Results. , 2019, , .		216
34	Improving CNN Classifiers by Estimating Test-Time Priors. , 2019, , .		9
35	MAGSAC: Marginalizing Sample Consensus. , 2019, , .		155
36	ICDAR2019 Robust Reading Challenge on Multi-lingual Scene Text Detection and Recognition â€" RRC-MLT-2019. , 2019, , .		136

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37	Cumulative attribute space regression for head pose estimation and color constancy. Pattern Recognition, 2019, 87, 29-37.	5.1	8
38	Continual Occlusion and Optical Flow Estimation. Lecture Notes in Computer Science, 2019, , 159-174.	1.0	9
39	Non-causal Tracking by Deblatting. Lecture Notes in Computer Science, 2019, , 122-135.	1.0	8
40	Visual Coin-Tracking: Tracking of Planar Double-Sided Objects. Lecture Notes in Computer Science, 2019, , 317-330.	1.0	1
41	Discriminative Correlation Filter Tracker with Channel and Spatial Reliability. International Journal of Computer Vision, 2018, 126, 671-688.	10.9	271
42	Graph-Cut RANSAC. , 2018, , .		177
43	Fast Motion Deblurring for Feature Detection and Matching Using Inertial Measurements. , 2018, , .		7
44	ALFA: Agglomerative Late Fusion Algorithm for Object Detection. , 2018, , .		3
45	Depth Masked Discriminative Correlation Filter. , 2018, , .		14
46	Repeatability Is Not Enough: Learning Affine Regions via Discriminability. Lecture Notes in Computer Science, 2018, , 287-304.	1.0	107
47	Non-Contact Reflectance Photoplethysmography: Progress, Limitations, and Myths. , 2018, , .		10
48	Systematic evaluation of convolution neural network advances on the Imagenet. Computer Vision and Image Understanding, 2017, 161, 11-19.	3.0	197
49	Deep TextSpotter: An End-to-End Trainable Scene Text Localization and Recognition Framework. , 2017, , .		152
50	The Visual Object Tracking VOT2017 Challenge Results. , 2017, , .		255
51	Fine-grained recognition of plants from images. Plant Methods, 2017, 13, 115.	1.9	48
52	The World of Fast Moving Objects. , 2017, , .		20
53	Discriminative Correlation Filter with Channel and Spatial Reliability. , 2017, , .		595
54	Inertial-based scale estimation for structure from motion on mobile devices. , 2017, , .		15

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55	From Dusk Till Dawn: Modeling in the Dark. , 2016, , .		15
56	Detection of bubbles as concentric circular arrangements. Machine Vision and Applications, 2016, 27, 387-396.	1.7	16
57	The Visual Object Tracking VOT2016 Challenge Results. Lecture Notes in Computer Science, 2016, , 777-823.	1.0	312
58	Online adaptive hidden Markov model for multi-tracker fusion. Computer Vision and Image Understanding, 2016, 153, 109-119.	3.0	21
59	Multi-view facial landmark detection by using a 3D shape model. Image and Vision Computing, 2016, 47, 60-70.	2.7	12
60	A Novel Performance Evaluation Methodology for Single-Target Trackers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2137-2155.	9.7	439
61	FASText: Efficient Unconstrained Scene Text Detector. , 2015, , .		84
62	Towards visual words to words. , 2015, , .		0
63	ICDAR 2015 competition on Robust Reading. , 2015, , .		924
64	MODS: Fast and robust method for two-view matching. Computer Vision and Image Understanding, 2015, 141, 81-93.	3.0	111
65	The Visual Object Tracking VOT2014 Challenge Results. Lecture Notes in Computer Science, 2015, , 191-217.	1.0	136
66	WxBS: Wide Baseline Stereo Generalizations. , 2015, , .		31
67	Rectification, and Segmentation of Coplanar Repeated Patterns. , 2014, , .		13
68	A 3D Approach to Facial Landmarks: Detection, Refinement, and Tracking. , 2014, , .		7
69	Robust scale-adaptive mean-shift for tracking. Pattern Recognition Letters, 2014, 49, 250-258.	2.6	171
70	Two-view matching with view synthesis revisited. , 2013, , .		8
71	Scene Text Localization and Recognition with Oriented Stroke Detection. , 2013, , .		147
72	On Combining Multiple Segmentations in Scene Text Recognition. , 2013, , .		73

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73	Learning Vocabularies over a Fine Quantization. International Journal of Computer Vision, 2013, 103, 163-175.	10.9	60
74	The Visual Object Tracking VOT2013 Challenge Results. , 2013, , .		154
75	Robust Scale-Adaptive Mean-Shift for Tracking. Lecture Notes in Computer Science, 2013, , 652-663.	1.0	38
76	Fast computation of min-Hash signatures for image collections. , 2012, , .		14
77	Tracking-Learning-Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1409-1422.	9.7	2,885
78	Ultra-fast tracking based on zero-shift points. Image and Vision Computing, 2012, 30, 1016-1031.	2.7	2
79	A system for real-time detection and tracking of vehicles from a single car-mounted camera. , 2012, , .		94
80	State of the Journal. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1-2.	9.7	9
81	Fixing the Locally Optimized RANSAC. , 2012, , .		127
82	Linear Regression and Adaptive Appearance Models forÂFastÂSimultaneous Modelling and Tracking. International Journal of Computer Vision, 2011, 95, 154-179.	10.9	17
83	Ultra-fast tracking based on zero-shift points. , 2011, , .		2
84	Total recall II: Query expansion revisited. , 2011, , .		221
85	Unsupervised discovery of co-occurrence in sparse high dimensional data. , 2010, , .		46
86	Image Matching and Retrieval by Repetitive Patterns. , 2010, , .		29
87	Efficient Sequential Correspondence Selection by Cosegmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1568-1581.	9.7	54
88	Efficient representation of local geometry for large scale object retrieval. , 2009, , .		179
89	Integrated vision system for the semantic interpretation of activities where a person handles objects. Computer Vision and Image Understanding, 2009, 113, 682-692.	3.0	7
90	Learning Fast Emulators of Binary Decision Processes. International Journal of Computer Vision, 2009, 83, 149-163.	10.9	16

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91	Anytime learning for the NoSLLiP tracker. Image and Vision Computing, 2009, 27, 1695-1701.	2.7	4
92	Efficient representation of local geometry for large scale object retrieval. , 2009, , .		18
93	Optimal Randomized RANSAC. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1472-1482.	9.7	315
94	Guest Editors' Introduction to the Special Section on CVPR Papers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1681-1682.	9.7	0
95	Editorial: Selection of Papers for the ECCV 2004 Special Issue. International Journal of Computer Vision, 2006, 67, 139-139.	10.9	0
96	Locally Optimized RANSAC. Lecture Notes in Computer Science, 2003, , 236-243.	1.0	472
97	Empirical evaluation of a calibration chart detector. Machine Vision and Applications, 2001, 12, 305-325.	1.7	6