

# JiÅÃ- Matas

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Tracking-Learning-Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1409-1422.	9.7	2,885
2	ICDAR 2015 competition on Robust Reading. , 2015, , .		924
3	Discriminative Correlation Filter with Channel and Spatial Reliability. , 2017, , .		595
4	Locally Optimized RANSAC. Lecture Notes in Computer Science, 2003, , 236-243.	1.0	472
5	A Novel Performance Evaluation Methodology for Single-Target Trackers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2137-2155.	9.7	439
6	Optimal Randomized RANSAC. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1472-1482.	9.7	315
7	The Visual Object Tracking VOT2016 Challenge Results. Lecture Notes in Computer Science, 2016, , 777-823.	1.0	312
8	Discriminative Correlation Filter Tracker with Channel and Spatial Reliability. International Journal of Computer Vision, 2018, 126, 671-688.	10.9	271
9	The Visual Object Tracking VOT2017 Challenge Results. , 2017, , .		255
10	Total recall II: Query expansion revisited. , 2011, , .		221
11	The Seventh Visual Object Tracking VOT2019 Challenge Results. , 2019, , .		216
12	Systematic evaluation of convolution neural network advances on the Imagenet. Computer Vision and Image Understanding, 2017, 161, 11-19.	3.0	197
13	Efficient representation of local geometry for large scale object retrieval. , 2009, , .		179
14	Graph-Cut RANSAC. , 2018, , .		177
15	Image Matching Across Wide Baselines: From Paper to Practice. International Journal of Computer Vision, 2021, 129, 517-547.	10.9	172
16	Robust scale-adaptive mean-shift for tracking. Pattern Recognition Letters, 2014, 49, 250-258.	2.6	171
17	MAGSAC: Marginalizing Sample Consensus. , 2019, , .		155
18	The Visual Object Tracking VOT2013 Challenge Results. , 2013, , .		154

#	ARTICLE	IF	CITATIONS
19	Deep TextSpotter: An End-to-End Trainable Scene Text Localization and Recognition Framework. , 2017, ,		152
20	The Sixth Visual Object Tracking VOT2018 Challenge Results. Lecture Notes in Computer Science, 2019, , 3-53.	1.0	152
21	Scene Text Localization and Recognition with Oriented Stroke Detection. , 2013, , .		147
22	ICDAR2019 Robust Reading Challenge on Multi-lingual Scene Text Detection and Recognition â€” RRC-MLT-2019. , 2019, , .		136
23	The Visual Object Tracking VOT2014 Challenge Results. Lecture Notes in Computer Science, 2015, , 191-217.	1.0	136
24	Fixing the Locally Optimized RANSAC. , 2012, , .		127
25	MAGSAC++, a Fast, Reliable and Accurate Robust Estimator. , 2020, , .		122
26	MODS: Fast and robust method for two-view matching. Computer Vision and Image Understanding, 2015, 141, 81-93.	3.0	111
27	Repeatability Is Not Enough: Learning Affine Regions via Discriminability. Lecture Notes in Computer Science, 2018, , 287-304.	1.0	107
28	A system for real-time detection and tracking of vehicles from a single car-mounted camera. , 2012, , .		94
29	FASText: Efficient Unconstrained Scene Text Detector. , 2015, , .		84
30	The Eighth Visual Object Tracking VOT2020 Challenge Results. Lecture Notes in Computer Science, 2020, , 547-601.	1.0	81
31	On Combining Multiple Segmentations in Scene Text Recognition. , 2013, , .		73
32	Learning Vocabularies over a Fine Quantization. International Journal of Computer Vision, 2013, 103, 163-175.	10.9	60
33	Guiding Monocular Depth Estimation Using Depth-Attention Volume. Lecture Notes in Computer Science, 2020, , 581-597.	1.0	57
34	Efficient Sequential Correspondence Selection by Cosegmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1568-1581.	9.7	54
35	Fine-grained recognition of plants from images. Plant Methods, 2017, 13, 115.	1.9	48
36	Unsupervised discovery of co-occurrence in sparse high dimensional data. , 2010, , .		46

#	ARTICLE	IF	CITATIONS
37	Robust Scale-Adaptive Mean-Shift for Tracking. Lecture Notes in Computer Science, 2013, , 652-663.	1.0	38
38	WxBS: Wide Baseline Stereo Generalizations. , 2015, , .		31
39	Image Matching and Retrieval by Repetitive Patterns. , 2010, , .		29
40	E2E-MLT - An Unconstrained End-to-End Method for Multi-language Scene Text. Lecture Notes in Computer Science, 2019, , 127-143.	1.0	28
41	FuCoLoT â€“ A Fully-Correlational Long-Term Tracker. Lecture Notes in Computer Science, 2019, , 595-611.	1.0	24
42	DeFMO: Deblurring and Shape Recovery of Fast Moving Objects. , 2021, , .		24
43	Gyroscope-Aided Motion Deblurring with Deep Networks. , 2019, , .		23
44	How to Make an RGBD Tracker?. Lecture Notes in Computer Science, 2019, , 148-161.	1.0	23
45	Online adaptive hidden Markov model for multi-tracker fusion. Computer Vision and Image Understanding, 2016, 153, 109-119.	3.0	21
46	The World of Fast Moving Objects. , 2017, , .		20
47	Efficient representation of local geometry for large scale object retrieval. , 2009, , .		18
48	Linear Regression and Adaptive Appearance Models for Fast Simultaneous Modelling and Tracking. International Journal of Computer Vision, 2011, 95, 154-179.	10.9	17
49	Learning Fast Emulators of Binary Decision Processes. International Journal of Computer Vision, 2009, 83, 149-163.	10.9	16
50	Detection of bubbles as concentric circular arrangements. Machine Vision and Applications, 2016, 27, 387-396.	1.7	16
51	Performance Evaluation Methodology for Long-Term Single-Object Tracking. IEEE Transactions on Cybernetics, 2021, 51, 6305-6318.	6.2	16
52	From Dusk Till Dawn: Modeling in the Dark. , 2016, , .		15
53	Inertial-based scale estimation for structure from motion on mobile devices. , 2017, , .		15
54	Fast computation of min-Hash signatures for image collections. , 2012, , .		14

#	ARTICLE	IF	CITATIONS
55	Depth Masked Discriminative Correlation Filter. , 2018, , .		14
56	Automatic Fungi Recognition: Deep Learning Meets Mycology. Sensors, 2022, 22, 633.	2.1	14
57	Rectification, and Segmentation of Coplanar Repeated Patterns. , 2014, , .		13
58	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
59	Multi-view facial landmark detection by using a 3D shape model. Image and Vision Computing, 2016, 47, 60-70.	2.7	12
60	Acoustic Vehicle Speed Estimation From Single Sensor Measurements. IEEE Sensors Journal, 2021, 21, 23317-23324.	2.4	11
61	Efficient Initial Pose-graph Generation for Global SfM. , 2021, , .		11
62	Non-Contact Reflectance Photoplethysmography: Progress, Limitations, and Myths. , 2018, , .		10
63	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
64	State of the Journal. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1-2.	9.7	9
65	Improving CNN Classifiers by Estimating Test-Time Priors. , 2019, , .		9
66	Continual Occlusion and Optical Flow Estimation. Lecture Notes in Computer Science, 2019, , 159-174.	1.0	9
67	Two-view matching with view synthesis revisited. , 2013, , .		8
68	Cumulative attribute space regression for head pose estimation and color constancy. Pattern Recognition, 2019, 87, 29-37.	5.1	8
69	Restoration of Fast Moving Objects. IEEE Transactions on Image Processing, 2020, 29, 8577-8589.	6.0	8
70	DAL: A Deep Depth-Aware Long-term Tracker. , 2021, , .		8
71	Non-causal Tracking by Deblatting. Lecture Notes in Computer Science, 2019, , 122-135.	1.0	8
72	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

#	ARTICLE	IF	CITATIONS
73	A 3D Approach to Facial Landmarks: Detection, Refinement, and Tracking. , 2014, , .		7
74	Fast Motion Deblurring for Feature Detection and Matching Using Inertial Measurements. , 2018, , .		7
75	Boosting Monocular Depth Estimation with Lightweight 3D Point Fusion. , 2021, , .		7
76	FMODEtect: Robust Detection of Fast Moving Objects. , 2021, , .		7
77	Empirical evaluation of a calibration chart detector. Machine Vision and Applications, 2001, 12, 305-325.	1.7	6
78	Robust Audio-Based Vehicle Counting in Low-to-Moderate Traffic Flow. , 2020, , .		6
79	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
80	Learning Surrogates via Deep Embedding. Lecture Notes in Computer Science, 2020, , 205-221.	1.0	5
81	Anytime learning for the NoSLLiP tracker. Image and Vision Computing, 2009, 27, 1695-1701.	2.7	4
82	Saddle: Fast and repeatable features with good coverage. Image and Vision Computing, 2020, 97, 3807.	2.7	4
83	Autonomous Car Chasing. Lecture Notes in Computer Science, 2020, , 337-352.	1.0	4
84	Neural network-based acoustic vehicle counting. , 2021, , .		4
85	Lightweight Monocular Depth with a Novel Neural Architecture Search Method. , 2022, , .		4
86	ALFA: Agglomerative Late Fusion Algorithm for Object Detection. , 2018, , .		3
87	Text Recognition - Real World Data and Where to Find Them. , 2021, , .		3
88	Tracking by Deblatting. International Journal of Computer Vision, 2021, 129, 2583-2604.	10.9	3
89	Ultra-fast tracking based on zero-shift points. , 2011, , .		2
90	Ultra-fast tracking based on zero-shift points. Image and Vision Computing, 2012, 30, 1016-1031.	2.7	2

#	ARTICLE	IF	CITATIONS
91	FEDS - Filtered Edit Distance Surrogate. Lecture Notes in Computer Science, 2021, , 171-186.	1.0	1
92	Ballroom Dance Recognition from Audio Recordings. , 2021, , .		1
93	Visual Coin-Tracking: Tracking of Planar Double-Sided Objects. Lecture Notes in Computer Science, 2019, , 317-330.	1.0	1
94	Editorial: Selection of Papers for the ECCV 2004 Special Issue. International Journal of Computer Vision, 2006, 67, 139-139.	10.9	0
95	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
96	Towards visual words to words. , 2015, , .		0
97	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