

# Ondrej Chum

## List of Publications by Year in descending order

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52  
papers

8,037  
citations

777949

13  
h-index

759306

22  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3916  
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal Solvers for Rectifying From Radially-Distorted Conjugate Translations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3931-3948.	9.7	5
2	Minimal Solvers for Rectifying from Radially-Distorted Scales and Change of Scales. International Journal of Computer Vision, 2020, 128, 950-968.	10.9	5
3	Learning and Aggregating Deep Local Descriptors for Instance-Level Recognition. Lecture Notes in Computer Science, 2020, , 460-477.	1.0	39
4	Fine-Tuning CNN Image Retrieval with No Human Annotation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1655-1668.	9.7	638
5	Graph-based particular object discovery. Machine Vision and Applications, 2019, 30, 243-254.	1.7	5
6	No Fear of the Dark: Image Retrieval Under Varying Illumination Conditions. , 2019, , .		19
7	Understanding and Improving Kernel Local Descriptors. International Journal of Computer Vision, 2019, 127, 1723-1737.	10.9	7
8	Hybrid Diffusion: Spectral-Temporal Graph Filtering for Manifold Ranking. Lecture Notes in Computer Science, 2019, , 301-316.	1.0	1
9	Radially-Distorted Conjugate Translations. , 2018, , .		29
10	Fast Spectral Ranking for Similarity Search. , 2018, , .		26
11	Deep Shape Matching. Lecture Notes in Computer Science, 2018, , 774-791.	1.0	40
12	Local Orthogonal-Group Testing. Lecture Notes in Computer Science, 2018, , 460-476.	1.0	0
13	Panorama to Panorama Matching for Location Recognition. , 2017, , .		16
14	Asymmetric Feature Maps with Application to Sketch Based Retrieval. , 2017, , .		27
15	Robust Data Whitening as an Iteratively Re-weighted Least Squares Problem. Lecture Notes in Computer Science, 2017, , 234-247.	1.0	0
16	From Dusk Till Dawn: Modeling in the Dark. , 2016, , .		15
17	CNN Image Retrieval Learns from BoW: Unsupervised Fine-Tuning with Hard Examples. Lecture Notes in Computer Science, 2016, , 3-20.	1.0	277
18	Coplanar Repeats by Energy Minimization. , 2016, , .		7

#	ARTICLE	IF	CITATIONS
19	Low Dimensional Explicit Feature Maps. , 2015, , .		6
20	Towards visual words to words. , 2015, , .		0
21	From single image query to detailed 3D reconstruction. , 2015, , .		80
22	Multiple Measurements and Joint Dimensionality Reduction for Large Scale Image Search with Short Vectors. , 2015, , .		19
23	Efficient Image Detail Mining. Lecture Notes in Computer Science, 2015, , 118-132.	1.0	5
24	Rectification, and Segmentation of Coplanar Repeated Patterns. , 2014, , .		13
25	Relevance Assessment for Visual Video Re-ranking. Lecture Notes in Computer Science, 2014, , 421-430.	1.0	0
26	Approximate models for fast and accurate epipolar geometry estimation. , 2013, , .		2
27	USAC: A Universal Framework for Random Sample Consensus. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2022-2038.	9.7	435
28	Learning Vocabularies over a Fine Quantization. International Journal of Computer Vision, 2013, 103, 163-175.	10.9	60
29	Image Retrieval for Online Browsing in Large Image Collections. Lecture Notes in Computer Science, 2013, , 3-15.	1.0	14
30	Fast computation of min-Hash signatures for image collections. , 2012, , .		14
31	Negative Evidences and Co-occurrences in Image Retrieval: The Benefit of PCA and Whitening. Lecture Notes in Computer Science, 2012, , 774-787.	1.0	179
32	Fixing the Locally Optimized RANSAC. , 2012, , .		127
33	Total recall II: Query expansion revisited. , 2011, , .		221
34	Planar Affine Rectification from Change of Scale. Lecture Notes in Computer Science, 2011, , 347-360.	1.0	10
35	Unsupervised discovery of co-occurrence in sparse high dimensional data. , 2010, , .		46
36	Construction of Precise Local Affine Frames. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
37	Image Matching and Retrieval by Repetitive Patterns. , 2010, , .		29
38	Learning a Fine Vocabulary. Lecture Notes in Computer Science, 2010, , 1-14.	1.0	66
39	Large-Scale Discovery of Spatially Related Images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 371-377.	9.7	112
40	Efficient representation of local geometry for large scale object retrieval. , 2009, , .		179
41	Geometric min-Hashing: Finding a (thick) needle in a haystack. , 2009, , .		154
42	Efficient representation of local geometry for large scale object retrieval. , 2009, , .		18
43	Geometric min-Hashing: Finding a (thick) needle in a haystack. , 2009, , .		31
44	Lost in quantization: Improving particular object retrieval in large scale image databases. , 2008, , .		1,054
45	Optimal Randomized RANSAC. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1472-1482.	9.7	315
46	An Exemplar Model for Learning Object Classes. , 2007, , .		193
47	Object retrieval with large vocabularies and fast spatial matching. , 2007, , .		2,144
48	Total Recall: Automatic Query Expansion with a Generative Feature Model for Object Retrieval. , 2007, , .		630
49	Scalable near identical image and shot detection. , 2007, , .		152
50	The geometric error for homographies. Computer Vision and Image Understanding, 2005, 97, 86-102.	3.0	79
51	Epipolar geometry estimation via RANSAC benefits from the oriented epipolar constraint. , 2004, , .		13
52	Locally Optimized RANSAC. Lecture Notes in Computer Science, 2003, , 236-243.	1.0	472