

Tinne Tuytelaars

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188
papers

20,014
citations

42
h-index

141
g-index

202
ext. papers

24,647
ext. citations

3.7
avg. IF

7.1
L-index

#	Paper	IF	Citations
188	Speeded-Up Robust Features (SURF). <i>Computer Vision and Image Understanding</i> , 2008 , 110, 346-359	4.3	7840
187	SURF: Speeded Up Robust Features. <i>Lecture Notes in Computer Science</i> , 2006 , 404-417	0.9	3343
186	A Comparison of Affine Region Detectors. <i>International Journal of Computer Vision</i> , 2005 , 65, 43-72	10.6	1902
185	Local Invariant Feature Detectors: A Survey. <i>Foundations and Trends in Computer Graphics and Vision</i> , 2007 , 3, 177-280	12	824
184	Unsupervised Visual Domain Adaptation Using Subspace Alignment 2013 ,		580
183	Matching Widely Separated Views Based on Affine Invariant Regions. <i>International Journal of Computer Vision</i> , 2004 , 59, 61-85	10.6	410
182	An Efficient Dense and Scale-Invariant Spatio-Temporal Interest Point Detector. <i>Lecture Notes in Computer Science</i> , 2008 , 650-663	0.9	317
181	Modeling video evolution for action recognition 2015 ,		261
180	2005 ,		197
179	Guiding the Long-Short Term Memory Model for Image Caption Generation 2015 ,		175
178	Moment invariants for recognition under changing viewpoint and illumination. <i>Computer Vision and Image Understanding</i> , 2004 , 94, 3-27	4.3	160
177	Rank Pooling for Action Recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 773-787	13.3	156
176	Seeking the Strongest Rigid Detector 2013 ,		149
175	Memory Aware Synapses: Learning What (not) to Forget. <i>Lecture Notes in Computer Science</i> , 2018 , 144-161	19	142
174	A thousand words in a scene. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 1575-89	13.3	138
173	Simultaneous Object Recognition and Segmentation from Single or Multiple Model Views. <i>International Journal of Computer Vision</i> , 2006 , 67, 159-188	10.6	136
172	Omnidirectional Vision Based Topological Navigation. <i>International Journal of Computer Vision</i> , 2007 , 74, 219-236	10.6	135

171	Unsupervised Object Discovery: A Comparison. <i>International Journal of Computer Vision</i> , 2010 , 88, 284-302.	0.6	129
170	Fine-Grained Categorization by Alignments 2013 ,		113
169	Weakly supervised object detection with convex clustering 2015 ,		109
168	Expert Gate: Lifelong Learning with a Network of Experts 2017 ,		106
167	Sketch classification and classification-driven analysis using Fisher vectors. <i>ACM Transactions on Graphics</i> , 2014 , 33, 1-9	7.6	93
166	Vector Quantizing Feature Space with a Regular Lattice 2007 ,		93
165	Object Detection by Contour Segment Networks. <i>Lecture Notes in Computer Science</i> , 2006 , 14-28	0.9	88
164	Discriminatively Trained Templates for 3D Object Detection: A Real Time Scalable Approach 2013 ,		87
163	Content-Based Image Retrieval Based on Local Affinely Invariant Regions. <i>Lecture Notes in Computer Science</i> , 1999 , 493-500	0.9	87
162	A continual learning survey: Defying forgetting in classification tasks. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	79
161	Dense matching of multiple wide-baseline views 2003 ,		69
160	Simultaneous Object Recognition and Segmentation by Image Exploration. <i>Lecture Notes in Computer Science</i> , 2004 , 40-54	0.9	69
159	The NBNN kernel 2011 ,		66
158	DeepProposal: Hunting Objects by Cascading Deep Convolutional Layers 2015 ,		65
157	Dense interest points 2010 ,		64
156	Encoder Based Lifelong Learning 2017 ,		59
155	Deep Reflectance Maps 2016 ,		56
154	Mining Mid-level Features for Image Classification. <i>International Journal of Computer Vision</i> , 2014 , 108, 186-203	10.6	54

153	A Deeper Look at Dataset Bias. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 37-55	1.1	54
152	Online Action Detection. <i>Lecture Notes in Computer Science</i> , 2016 , 269-284	0.9	49
151	. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2003 , 25, 418-432	13.3	46
150	HPAT Indexing for Fast Object/Scene Recognition Based on Local Appearance 2003 , 71-80		46
149	From omnidirectional images to hierarchical localization. <i>Robotics and Autonomous Systems</i> , 2007 , 55, 372-382	3.5	45
148	2019 ,		45
147	Local Alignments for Fine-Grained Categorization. <i>International Journal of Computer Vision</i> , 2015 , 111, 191-212	10.6	42
146	Wide-baseline multiple-view correspondences		40
145	Deformable part models revisited: A performance evaluation for object category pose estimation 2011 ,		39
144	Active Transfer Learning with Zero-Shot Priors: Reusing Past Datasets for Future Tasks 2015 ,		38
143	Joint cross-domain classification and subspace learning for unsupervised adaptation. <i>Pattern Recognition Letters</i> , 2015 , 65, 60-66	4.7	37
142	The cascaded Hough transform as an aid in aerial image interpretation		36
141	Feature based omnidirectional sparse visual path following 2005 ,		35
140	Reflectance and Natural Illumination from Single-Material Specular Objects Using Deep Learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 1932-1947	13.3	32
139	Efficient multi-camera vehicle detection, tracking, and identification in a tunnel surveillance application. <i>Computer Vision and Image Understanding</i> , 2012 , 116, 742-753	4.3	29
138	A Deeper Look at Dataset Bias. <i>Lecture Notes in Computer Science</i> , 2015 , 504-516	0.9	29
137	Example-Based Sketch Segmentation and Labeling Using CRFs. <i>ACM Transactions on Graphics</i> , 2016 , 35, 1-9	7.6	28
136	Markerless augmented reality with a real-time affine region tracker		27

135	Novel Views of Objects from a Single Image. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 1576-1590	13.3	27
134	Camera-Based Fall Detection on Real World Data. <i>Lecture Notes in Computer Science</i> , 2012 , 356-375	0.9	27
133	What is Around the Camera? 2017 ,		26
132	Mining Multiple Queries for Image Retrieval: On-the-Fly Learning of an Object-Specific Mid-level Representation 2013 ,		26
131	Kernelized sorting. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 1809-21	13.3	26
130	. <i>IEEE Transactions on Multimedia</i> , 2010 , 12, 13-27	6.6	26
129	Exemplar-based Action Recognition in Video 2009 ,		25
128	Effective Use of Frequent Itemset Mining for Image Classification. <i>Lecture Notes in Computer Science</i> , 2012 , 214-227	0.9	25
127	Modeling Temporal Structure with LSTM for Online Action Detection 2018 ,		24
126	CNN-based single image obstacle avoidance on a quadrotor 2017 ,		23
125	Naming People in News Videos with Label Propagation. <i>IEEE MultiMedia</i> , 2011 , 18, 44-55	2.1	21
124	Image-Based Synthesis and Re-synthesis of Viewpoints Guided by 3D Models 2014 ,		20
123	Dynamic Convolutions: Exploiting Spatial Sparsity for Faster Inference 2020 ,		19
122	Camera-based fall detection using real-world versus simulated data: How far are we from the solution?. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2016 , 8, 149-168	2.2	18
121	Real-time affine region tracking and coplanar grouping		18
120	Is 2D Information Enough For Viewpoint Estimation? 2014 ,		18
119	The cascaded Hough transform		16
118	Location recognition over large time lags. <i>Computer Vision and Image Understanding</i> , 2015 , 139, 21-28	4.3	14

117	Spatio-temporal features for robust content-based video copy detection 2008 ,		14
116	Weakly Supervised Detection with Posterior Regularization 2014 ,		14
115	Naming persons in news video with label propagation 2010 ,		13
114	Efficient multi-camera detection, tracking, and identification using a shared set of haar-features 2011 ,		13
113	Depth-From-Recognition: Inferring Meta-data by Cognitive Feedback 2007 ,		13
112	Scalable Semi-Automatic Annotation for Multi-Camera Person Tracking. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 2259-74	8.7	13
111	Beyond 2D-grids 2010 ,		12
110	Shape-from-recognition: Recognition enables meta-data transfer. <i>Computer Vision and Image Understanding</i> , 2009 , 113, 1222-1234	4.3	12
109	Efficient grouping under perspective skew		12
108	DeepProposals: Hunting Objects and Actions by Cascading Deep Convolutional Layers. <i>International Journal of Computer Vision</i> , 2017 , 124, 115-131	10.6	11
107	Finding a needle in a haystack: an interactive video archive explorer for professional video searchers. <i>Multimedia Tools and Applications</i> , 2013 , 63, 331-356	2.5	11
106	Camera-based fall detection using a particle filter. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6947-50	0.9	11
105	Towards a more discriminative and semantic visual vocabulary. <i>Computer Vision and Image Understanding</i> , 2011 , 115, 415-425	4.3	11
104	Integrating video and accelerometer signals for nocturnal epileptic seizure detection 2012 ,		11
103	All together now: Simultaneous Detection and Continuous Pose Estimation using a Hough Forest with Probabilistic Locally Enhanced Voting 2014 ,		11
102	Continual Prototype Evolution: Learning Online from Non-Stationary Data Streams 2021 ,		11
101	Cross-Modal Supervision for Learning Active Speaker Detection in Video. <i>Lecture Notes in Computer Science</i> , 2016 , 285-301	0.9	10
100	Who's Speaking? 2015 ,		10

99	Using Spatio-Temporal Interest Points (STIP) for myoclonic jerk detection in nocturnal video. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 4454-7</i>	0.9	10
98	Local Features for Image Retrieval. <i>Computational Imaging and Vision, 2001, 21-41</i>		10
97	Video object proposals 2012,		9
96	The cascaded Hough transform as support for grouping and finding vanishing points and lines. <i>Lecture Notes in Computer Science, 1997, 278-289</i>	0.9	9
95	Vision Based Intelligent Wheel Chair Control: The Role of Vision and Inertial Sensing in Topological Navigation. <i>Journal of Field Robotics, 2004, 21, 85-94</i>		9
94	Lightweight Unsupervised Domain Adaptation by Convolutional Filter Reconstruction. <i>Lecture Notes in Computer Science, 2016, 508-515</i>	0.9	9
93	A Testbed for Cross-Dataset Analysis. <i>Lecture Notes in Computer Science, 2015, 18-31</i>	0.9	9
92	An Elastic Deformation Field Model for Object Detection and Tracking. <i>International Journal of Computer Vision, 2015, 111, 137-152</i>	10.6	8
91	Towards sign language recognition based on body parts relations 2015,		8
90	Dataset fingerprints: Exploring image collections through data mining 2015,		8
89	Color features for dating historical color images 2014,		8
88	Dense interest features for video processing 2014,		8
87	Mixture Dense Regression for Object Detection and Human Pose Estimation 2020,		8
86	A Deep Multi-modal Explanation Model for Zero-shot Learning. <i>IEEE Transactions on Image Processing, 2020,</i>	8.7	7
85	Three Ways to Improve the Performance of Real-Life Camera-Based Fall Detection Systems. <i>Journal of Sensors, 2017, 2017, 1-15</i>	2	7
84	Boosting masked dominant orientation templates for efficient object detection. <i>Computer Vision and Image Understanding, 2014, 120, 103-116</i>	4.3	7
83	Using Multi-view Recognition and Meta-data Annotation to Guide a Robot's Attention. <i>International Journal of Robotics Research, 2009, 28, 976-998</i>	5.7	7
82	A Relational Kernel-Based Framework for Hierarchical Image Understanding. <i>Lecture Notes in Computer Science, 2012, 171-180</i>	0.9	7

81	Avalanche: an End-to-End Library for Continual Learning 2021 ,		7
80	Wildlife recognition in nature documentaries with weak supervision from subtitles and external data. <i>Pattern Recognition Letters</i> , 2016 , 81, 63-70	4.7	6
79	Continuous Pose Estimation with a Spatial Ensemble of Fisher Regressors 2015 ,		6
78	Learning to Rank Based on Subsequences 2015 ,		6
77	Using a Deformation Field Model for Localizing Faces and Facial Points under Weak Supervision 2014 ,		6
76	Pedestrian Detection at Warp Speed: Exceeding 500 Detections per Second 2013 ,		6
75	Localization with omnidirectional images using the radial trifocal tensor		6
74	Naive Bayes Image Classification: Beyond Nearest Neighbors. <i>Lecture Notes in Computer Science</i> , 2013 , 689-703	0.9	6
73	Computer Vision and Human Behaviour, Emotion and Cognition Detection: A Use Case on Student Engagement. <i>Mathematics</i> , 2021 , 9, 287	2.3	6
72	Simultaneous Object Recognition and Segmentation by Image Exploration. <i>Lecture Notes in Computer Science</i> , 2006 , 145-169	0.9	6
71	[Formula: see text]-Patches: A Benchmark and Evaluation of Handcrafted and Learned Local Descriptors. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 2825-2841	13.3	5
70	Active speaker detection with audio-visual co-training 2016 ,		5
69	Entity linking across vision and language. <i>Multimedia Tools and Applications</i> , 2017 , 76, 22599-22622	2.5	5
68	Object Classification with Adaptable Regions 2014 ,		5
67	Multi RGB-D camera setup for generating large 3D point clouds 2013 ,		5
66	Non-Overlapping Multi-camera Detection and Tracking of Vehicles in Tunnel Surveillance 2011 ,		5
65	Is structure needed for omnidirectional visual homing?		5
64	Allocentric Pose Estimation 2013 ,		4

63	Modeling shapes and textures from images: new frontiers		4
62	More Classifiers, Less Forgetting: A Generic Multi-classifier Paradigm for Incremental Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 699-716	0.9	4
61	The Pooled NBNN Kernel: Beyond Image-to-Class and Image-to-Image. <i>Lecture Notes in Computer Science</i> , 2013 , 176-189	0.9	4
60	Unsupervised Model Personalization While Preserving Privacy and Scalability: An Open Problem 2020 ,		4
59	Recovering hard-to-find object instances by sampling context-based object proposals. <i>Computer Vision and Image Understanding</i> , 2016 , 152, 118-130	4.3	4
58	2019 ,		4
57	Monocular Depth Estimation in New Environments With Absolute Scale 2019 ,		4
56	Vision and Language Integration Meets Multimedia Fusion 2016 ,		3
55	Pose Estimation Errors, the Ultimate Diagnosis. <i>Lecture Notes in Computer Science</i> , 2016 , 118-134	0.9	3
54	A Scalable 3D HOG Model for Fast Object Detection and Viewpoint Estimation 2014 ,		3
53	There are plenty of places like home: Using relational representations in hierarchies for distance-based image understanding. <i>Neurocomputing</i> , 2014 , 123, 75-85	5.4	3
52	Special issue on 3D representation for object and scene recognition. <i>Computer Vision and Image Understanding</i> , 2009 , 113, 1181-1182	4.3	3
51	Automatic annotation of unique locations from video and text 2010 ,		3
50	Fast Head Pose Estimation for Human-Computer Interaction. <i>Lecture Notes in Computer Science</i> , 2015 , 101-110	0.9	3
49	The CAMETRON Lecture Recording System: High Quality Video Recording and Editing with Minimal Human Supervision. <i>Lecture Notes in Computer Science</i> , 2018 , 518-530	0.9	3
48	Grouping via the Matching of Repeated Patterns. <i>Lecture Notes in Computer Science</i> , 2001 , 252-261	0.9	3
47	Rehearsal revealed: The limits and merits of revisiting samples in continual learning 2021 ,		3
46	Multidisciplinary Learning through Implementation of the DVB-S2 Standard. <i>IEEE Communications Magazine</i> , 2017 , 55, 124-130	9.1	2

45	Real-Time Embedded Computer Vision on UAVs. <i>Lecture Notes in Computer Science</i> , 2019 , 3-10	0.9	2
44	Swap Retrieval 2015 ,		2
43	Naming persons in video: Using the weak supervision of textual stories. <i>Journal of Visual Communication and Image Representation</i> , 2013 , 24, 944-955	2.7	2
42	Darwintrees for Action Recognition 2017 ,		2
41	A relational kernel-based approach to scene classification 2013 ,		2
40	Range determination for mobile robots using an omnidirectional camera. <i>Integrated Computer-Aided Engineering</i> , 2007 , 14, 63-72	5.2	2
39	Real-Time Embedded Computer Vision on UAVs:. <i>Lecture Notes in Computer Science</i> , 2020 , 665-674	0.9	2
38	Towards Automatic Image Editing: Learning to See another You 2016 ,		2
37	Who's that Actor? Automatic Labelling of Actors in TV Series Starting from IMDB Images. <i>Lecture Notes in Computer Science</i> , 2017 , 467-483	0.9	2
36	Visual Topological Map Building in Self-similar Environments 2008 , 195-205		2
35	Error Correction for Dense Semantic Image Labeling 2018 ,		2
34	From Pixels to Actions: Learning to Drive a Car with Deep Neural Networks 2018 ,		2
33	Adventurous Tourism for Couch Potatoes. <i>Lecture Notes in Computer Science</i> , 1999 , 98-107	0.9	2
32	Action in chains: A chains model for action localization and classification 2014 ,		1
31	Towards cautious collective inference for object verification 2014 ,		1
30	Coupling video segmentation and action recognition 2014 ,		1
29	Learning Where to Position Parts in 3D 2015 ,		1
28	The Combinator: Optimal Combination of Multiple Pedestrian Detectors 2014 ,		1

27	Real-Time Vision-Based Pedestrian Detection in a Truck's Blind Spot Zone Using a Warping Window Approach. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 251-264	0.2	1
26	2012 ,		1
25	Codebook-free exemplar models for object detection 2012 ,		1
24	Residual Tuning: Toward Novel Category Discovery Without Labels.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022 , PP,	10.3	1
23	Attend and Segment: Attention Guided Active Semantic Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 305-321	0.9	1
22	Commands 4 Autonomous Vehicles (C4AV) Workshop Summary. <i>Lecture Notes in Computer Science</i> , 2020 , 3-26	0.9	1
21	Class Representative Visual Words for Category-Level Object Recognition. <i>Lecture Notes in Computer Science</i> , 2009 , 184-191	0.9	1
20	Automatic Occlusion Removal from Facades for 3D Urban Reconstruction. <i>Lecture Notes in Computer Science</i> , 2011 , 681-692	0.9	1
19	Unpaired Image-To-Image Shape Translation Across Fashion Data 2020 ,		1
18	2021 ,		1
17	MIXEM: Unsupervised Image Classification Using a Mixture of Embeddings. <i>Lecture Notes in Computer Science</i> , 2021 , 38-55	0.9	1
16	An Analysis of Human-Centered Geolocation 2018 ,		1
15	Inline nondestructive internal disorder detection in pear fruit using explainable deep anomaly detection on X-ray images. <i>Computers and Electronics in Agriculture</i> , 2022 , 197, 106962	6.5	1
14	SegBlocks: Towards Block-Based Adaptive Resolution Networks for Fast Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 18-22	0.9	0
13	Multiple Exemplars-Based Hallucination for Face Super-Resolution and Editing. <i>Lecture Notes in Computer Science</i> , 2021 , 258-273	0.9	0
12	Learning Multi-instance Sub-pixel Point Localization. <i>Lecture Notes in Computer Science</i> , 2021 , 669-686	0.9	0
11	Context-based object viewpoint estimation: A 2D relational approach. <i>Computer Vision and Image Understanding</i> , 2017 , 160, 100-113	4.3	
10	Vision and Language Integration Meets Multimedia Fusion. <i>IEEE MultiMedia</i> , 2018 , 25, 7-10	2.1	

- 9 Feed-Forward On-Edge Fine-Tuning Using Static Synthetic Gradient Modules. *Lecture Notes in Computer Science*, **2020**, 131-146 0.9
- 8 A Shape Based, Viewpoint Invariant Local Descriptor. *Lecture Notes in Computer Science*, **2005**, 349-359 0.9
- 7 7 th Dutch-Belgian Information Retrieval Workshop March 28--29, 2007 Katholieke Universiteit Leuven, Belgium. *ACM SIGIR Forum*, **2007**, 41, 121-122 0.9
- 6 Exploring the Challenges Towards Lifelong Fact Learning. *Lecture Notes in Computer Science*, **2019**, 66-84. 0.9
- 5 Spatio-Temporal Object Recognition. *Lecture Notes in Computer Science*, **2015**, 681-692 0.9
- 4 Not Far Away from Home: A Relational Distance-Based Approach to Understanding Images of Houses. *Lecture Notes in Computer Science*, **2011**, 22-29 0.9
- 3 Show me where the action is!. *Multimedia Tools and Applications*, **2021**, 80, 383-408 2.5
- 2 In Defense of LSTMs for Addressing Multiple Instance Learning Problems. *Lecture Notes in Computer Science*, **2021**, 444-460 0.9
- 1 Can we Localize an AV from a Single Image? Deep-Geometric 6 DoF Localization in Topo-metric Maps. *ASME Journal of Autonomous Vehicles and Systems*, 1-13