

Tinne Tuytelaars

List of Publications by Year in Descending Order

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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	Residual Tuning: Toward Novel Category Discovery Without Labels.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022 , PP,	10.3	1
187	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
186	2021 ,		1
185	Avalanche: an End-to-End Library for Continual Learning 2021 ,		7
184	Show me where the action is!. <i>Multimedia Tools and Applications</i> , 2021 , 80, 383-408	2.5	
183	MIXEM: Unsupervised Image Classification Using a Mixture of Embeddings. <i>Lecture Notes in Computer Science</i> , 2021 , 38-55	0.9	1
182	In Defense of LSTMs for Addressing Multiple Instance Learning Problems. <i>Lecture Notes in Computer Science</i> , 2021 , 444-460	0.9	
181	Computer Vision and Human Behaviour, Emotion and Cognition Detection: A Use Case on Student Engagement. <i>Mathematics</i> , 2021 , 9, 287	2.3	6
180	Multiple Exemplars-Based Hallucination for Face Super-Resolution and Editing. <i>Lecture Notes in Computer Science</i> , 2021 , 258-273	0.9	0
179	Learning Multi-instance Sub-pixel Point Localization. <i>Lecture Notes in Computer Science</i> , 2021 , 669-686	0.9	0
178	A continual learning survey: Defying forgetting in classification tasks. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	79
177	Continual Prototype Evolution: Learning Online from Non-Stationary Data Streams 2021 ,		11
176	Rehearsal revealed: The limits and merits of revisiting samples in continual learning 2021 ,		3
175	[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
174	A Deep Multi-modal Explanation Model for Zero-shot Learning. <i>IEEE Transactions on Image Processing</i> , 2020 ,	8.7	7
173	SegBlocks: Towards Block-Based Adaptive Resolution Networks for Fast Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 18-22	0.9	0
172	Feed-Forward On-Edge Fine-Tuning Using Static Synthetic Gradient Modules. <i>Lecture Notes in Computer Science</i> , 2020 , 131-146	0.9	

171	Real-Time Embedded Computer Vision on UAVs:. <i>Lecture Notes in Computer Science</i> , 2020 , 665-674	0.9	2
170	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
169	Attend and Segment: Attention Guided Active Semantic Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 305-321	0.9	1
168	Commands 4 Autonomous Vehicles (C4AV) Workshop Summary. <i>Lecture Notes in Computer Science</i> , 2020 , 3-26	0.9	1
167	Dynamic Convolutions: Exploiting Spatial Sparsity for Faster Inference 2020 ,		19
166	Unpaired Image-To-Image Shape Translation Across Fashion Data 2020 ,		1
165	Mixture Dense Regression for Object Detection and Human Pose Estimation 2020 ,		8
164	Unsupervised Model Personalization While Preserving Privacy and Scalability: An Open Problem 2020 ,		4
163	Real-Time Embedded Computer Vision on UAVs. <i>Lecture Notes in Computer Science</i> , 2019 , 3-10	0.9	2
162	Exploring the Challenges Towards Lifelong Fact Learning. <i>Lecture Notes in Computer Science</i> , 2019 , 66-84.	0.9	1
161	2019 ,		4
160	Monocular Depth Estimation in New Environments With Absolute Scale 2019 ,		4
159	2019 ,		45
158	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
157	Vision and Language Integration Meets Multimedia Fusion. <i>IEEE MultiMedia</i> , 2018 , 25, 7-10	2.1	
156	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
155	Error Correction for Dense Semantic Image Labeling 2018 ,		2
154	Memory Aware Synapses: Learning What (not) to Forget. <i>Lecture Notes in Computer Science</i> , 2018 , 144-161	19	142

153	Modeling Temporal Structure with LSTM for Online Action Detection 2018 ,		24
152	An Analysis of Human-Centered Geolocation 2018 ,		1
151	From Pixels to Actions: Learning to Drive a Car with Deep Neural Networks 2018 ,		2
150	Rank Pooling for Action Recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 773-787	13.3	156
149	Context-based object viewpoint estimation: A 2D relational approach. <i>Computer Vision and Image Understanding</i> , 2017 , 160, 100-113	4.3	
148	Multidisciplinary Learning through Implementation of the DVB-S2 Standard. <i>IEEE Communications Magazine</i> , 2017 , 55, 124-130	9.1	2
147	DeepProposals: Hunting Objects and Actions by Cascading Deep Convolutional Layers. <i>International Journal of Computer Vision</i> , 2017 , 124, 115-131	10.6	11
146	Three Ways to Improve the Performance of Real-Life Camera-Based Fall Detection Systems. <i>Journal of Sensors</i> , 2017 , 2017, 1-15	2	7
145	A Deeper Look at Dataset Bias. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 37-55	1.1	54
144	CNN-based single image obstacle avoidance on a quadrotor 2017 ,		23
143	Entity linking across vision and language. <i>Multimedia Tools and Applications</i> , 2017 , 76, 22599-22622	2.5	5
142	What is Around the Camera? 2017 ,		26
141	Expert Gate: Lifelong Learning with a Network of Experts 2017 ,		106
140	Darwintrees for Action Recognition 2017 ,		2
139	Encoder Based Lifelong Learning 2017 ,		59
138	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
137	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
136	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

135	Vision and Language Integration Meets Multimedia Fusion 2016 ,		3
134	Pose Estimation Errors, the Ultimate Diagnosis. <i>Lecture Notes in Computer Science</i> , 2016 , 118-134	0.9	3
133	Cross-Modal Supervision for Learning Active Speaker Detection in Video. <i>Lecture Notes in Computer Science</i> , 2016 , 285-301	0.9	10
132	Active speaker detection with audio-visual co-training 2016 ,		5
131	Deep Reflectance Maps 2016 ,		56
130	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
129	Towards Automatic Image Editing: Learning to See another You 2016 ,		2
128	Online Action Detection. <i>Lecture Notes in Computer Science</i> , 2016 , 269-284	0.9	49
127	Lightweight Unsupervised Domain Adaptation by Convolutional Filter Reconstruction. <i>Lecture Notes in Computer Science</i> , 2016 , 508-515	0.9	9
126	Scalable Semi-Automatic Annotation for Multi-Camera Person Tracking. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 2259-74	8.7	13
125	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
124	Example-Based Sketch Segmentation and Labeling Using CRFs. <i>ACM Transactions on Graphics</i> , 2016 , 35, 1-9	7.6	28
123	Local Alignments for Fine-Grained Categorization. <i>International Journal of Computer Vision</i> , 2015 , 111, 191-212	10.6	42
122	An Elastic Deformation Field Model for Object Detection and Tracking. <i>International Journal of Computer Vision</i> , 2015 , 111, 137-152	10.6	8
121	Swap Retrieval 2015 ,		2
120	Location recognition over large time lags. <i>Computer Vision and Image Understanding</i> , 2015 , 139, 21-28	4.3	14
119	Joint cross-domain classification and subspace learning for unsupervised adaptation. <i>Pattern Recognition Letters</i> , 2015 , 65, 60-66	4.7	37
118	Who's Speaking? 2015 ,		10

117	Weakly supervised object detection with convex clustering 2015 ,		109
116	Modeling video evolution for action recognition 2015 ,		261
115	Guiding the Long-Short Term Memory Model for Image Caption Generation 2015 ,		175
114	Continuous Pose Estimation with a Spatial Ensemble of Fisher Regressors 2015 ,		6
113	DeepProposal: Hunting Objects by Cascading Deep Convolutional Layers 2015 ,		65
112	Active Transfer Learning with Zero-Shot Priors: Reusing Past Datasets for Future Tasks 2015 ,		38
111	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
110	Learning Where to Position Parts in 3D 2015 ,		1
109	Learning to Rank Based on Subsequences 2015 ,		6
108	Towards sign language recognition based on body parts relations 2015 ,		8
107	Dataset fingerprints: Exploring image collections through data mining 2015 ,		8
106	Fast Head Pose Estimation for Human-Computer Interaction. <i>Lecture Notes in Computer Science</i> , 2015 , 101-110	0.9	3
105	A Deeper Look at Dataset Bias. <i>Lecture Notes in Computer Science</i> , 2015 , 504-516	0.9	29
104	A Testbed for Cross-Dataset Analysis. <i>Lecture Notes in Computer Science</i> , 2015 , 18-31	0.9	9
103	Spatio-Temporal Object Recognition. <i>Lecture Notes in Computer Science</i> , 2015 , 681-692	0.9	
102	Mining Mid-level Features for Image Classification. <i>International Journal of Computer Vision</i> , 2014 , 108, 186-203	10.6	54
101	Action in chains: A chains model for action localization and classification 2014 ,		1
100	Towards cautious collective inference for object verification 2014 ,		1

99	Coupling video segmentation and action recognition 2014 ,		1
98	Boosting masked dominant orientation templates for efficient object detection. <i>Computer Vision and Image Understanding</i> , 2014 , 120, 103-116	4.3	7
97	Using a Deformation Field Model for Localizing Faces and Facial Points under Weak Supervision 2014 ,		6
96	The Combinator: Optimal Combination of Multiple Pedestrian Detectors 2014 ,		1
95	Color features for dating historical color images 2014 ,		8
94	Sketch classification and classification-driven analysis using Fisher vectors. <i>ACM Transactions on Graphics</i> , 2014 , 33, 1-9	7.6	93
93	Dense interest features for video processing 2014 ,		8
92	Image-Based Synthesis and Re-synthesis of Viewpoints Guided by 3D Models 2014 ,		20
91	Object Classification with Adaptable Regions 2014 ,		5
90	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
89	A Scalable 3D HOG Model for Fast Object Detection and Viewpoint Estimation 2014 ,		3
88	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
87	Is 2D Information Enough For Viewpoint Estimation? 2014 ,		18
86	Weakly Supervised Detection with Posterior Regularization 2014 ,		14
85	All together now: Simultaneous Detection and Continuous Pose Estimation using a Hough Forest with Probabilistic Locally Enhanced Voting 2014 ,		11
84	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
83	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
82	Alloentric Pose Estimation 2013 ,		4

81	Discriminatively Trained Templates for 3D Object Detection: A Real Time Scalable Approach 2013 ,		87
80	Pedestrian Detection at Warp Speed: Exceeding 500 Detections per Second 2013 ,		6
79	A relational kernel-based approach to scene classification 2013 ,		2
78	Fine-Grained Categorization by Alignments 2013 ,		113
77	Mining Multiple Queries for Image Retrieval: On-the-Fly Learning of an Object-Specific Mid-level Representation 2013 ,		26
76	Seeking the Strongest Rigid Detector 2013 ,		149
75	Unsupervised Visual Domain Adaptation Using Subspace Alignment 2013 ,		580
74	Multi RGB-D camera setup for generating large 3D point clouds 2013 ,		5
73	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
72	Naive Bayes Image Classification: Beyond Nearest Neighbors. <i>Lecture Notes in Computer Science</i> , 2013 , 689-703	0.9	6
71	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
70	2012 ,		1
69	Integrating video and accelerometer signals for nocturnal epileptic seizure detection 2012 ,		11
68	Codebook-free exemplar models for object detection 2012 ,		1
67	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</i> , 2012 , 2012, 4454-7	0.9	10
66	Video object proposals 2012 ,		9
65	Effective Use of Frequent Itemset Mining for Image Classification. <i>Lecture Notes in Computer Science</i> , 2012 , 214-227	0.9	25
64	Camera-Based Fall Detection on Real World Data. <i>Lecture Notes in Computer Science</i> , 2012 , 356-375	0.9	27

63	A Relational Kernel-Based Framework for Hierarchical Image Understanding. <i>Lecture Notes in Computer Science</i> , 2012 , 171-180	0.9	7
62	Non-Overlapping Multi-camera Detection and Tracking of Vehicles in Tunnel Surveillance 2011 ,		5
61	Towards a more discriminative and semantic visual vocabulary. <i>Computer Vision and Image Understanding</i> , 2011 , 115, 415-425	4.3	11
60	Deformable part models revisited: A performance evaluation for object category pose estimation 2011 ,		39
59	The NBNN kernel 2011 ,		66
58	Naming People in News Videos with Label Propagation. <i>IEEE MultiMedia</i> , 2011 , 18, 44-55	2.1	21
57	Efficient multi-camera detection, tracking, and identification using a shared set of haar-features 2011 ,		13
56	Not Far Away from Home: A Relational Distance-Based Approach to Understanding Images of Houses. <i>Lecture Notes in Computer Science</i> , 2011 , 22-29	0.9	
55	Automatic Occlusion Removal from Facades for 3D Urban Reconstruction. <i>Lecture Notes in Computer Science</i> , 2011 , 681-692	0.9	1
54	Naming persons in news video with label propagation 2010 ,		13
53	Dense interest points 2010 ,		64
52	Beyond 2D-grids 2010 ,		12
51	Kernelized sorting. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 1809-21	13.3	26
50	. <i>IEEE Transactions on Multimedia</i> , 2010 , 12, 13-27	6.6	26
49	Unsupervised Object Discovery: A Comparison. <i>International Journal of Computer Vision</i> , 2010 , 88, 284-302.	2.6	129
48	Automatic annotation of unique locations from video and text 2010 ,		3
47	Using Multi-view Recognition and Meta-data Annotation to Guide a Robot's Attention. <i>International Journal of Robotics Research</i> , 2009 , 28, 976-998	5.7	7
46	Shape-from-recognition: Recognition enables meta-data transfer. <i>Computer Vision and Image Understanding</i> , 2009 , 113, 1222-1234	4.3	12

45	Special issue on 3D representation for object and scene recognition. <i>Computer Vision and Image Understanding</i> , 2009 , 113, 1181-1182	4.3	3
44	Exemplar-based Action Recognition in Video 2009 ,		25
43	Class Representative Visual Words for Category-Level Object Recognition. <i>Lecture Notes in Computer Science</i> , 2009 , 184-191	0.9	1
42	Spatio-temporal features for robust content-based video copy detection 2008 ,		14
41	Speeded-Up Robust Features (SURF). <i>Computer Vision and Image Understanding</i> , 2008 , 110, 346-359	4.3	7840
40	Visual Topological Map Building in Self-similar Environments 2008 , 195-205		2
39	An Efficient Dense and Scale-Invariant Spatio-Temporal Interest Point Detector. <i>Lecture Notes in Computer Science</i> , 2008 , 650-663	0.9	317
38	Local Invariant Feature Detectors: A Survey. <i>Foundations and Trends in Computer Graphics and Vision</i> , 2007 , 3, 177-280	12	824
37	Range determination for mobile robots using an omnidirectional camera. <i>Integrated Computer-Aided Engineering</i> , 2007 , 14, 63-72	5.2	2
36	From omnidirectional images to hierarchical localization. <i>Robotics and Autonomous Systems</i> , 2007 , 55, 372-382	3.5	45
35	Omnidirectional Vision Based Topological Navigation. <i>International Journal of Computer Vision</i> , 2007 , 74, 219-236	10.6	135
34	A thousand words in a scene. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 1575-89	13.3	138
33	Vector Quantizing Feature Space with a Regular Lattice 2007 ,		93
32	Depth-From-Recognition: Inferring Meta-data by Cognitive Feedback 2007 ,		13
31	7 th Dutch-Belgian Information Retrieval Workshop March 28--29, 2007 Katholieke Universiteit Leuven, Belgium. <i>ACM SIGIR Forum</i> , 2007 , 41, 121-122	0.9	
30	SURF: Speeded Up Robust Features. <i>Lecture Notes in Computer Science</i> , 2006 , 404-417	0.9	3343
29	Object Detection by Contour Segment Networks. <i>Lecture Notes in Computer Science</i> , 2006 , 14-28	0.9	88
28	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

27	Simultaneous Object Recognition and Segmentation by Image Exploration. <i>Lecture Notes in Computer Science</i> , 2006 , 145-169	0.9	6
26	A Comparison of Affine Region Detectors. <i>International Journal of Computer Vision</i> , 2005 , 65, 43-72	10.6	1902
25	2005 ,		197
24	Feature based omnidirectional sparse visual path following 2005 ,		35
23	A Shape Based, Viewpoint Invariant Local Descriptor. <i>Lecture Notes in Computer Science</i> , 2005 , 349-359	0.9	
22	Simultaneous Object Recognition and Segmentation by Image Exploration. <i>Lecture Notes in Computer Science</i> , 2004 , 40-54	0.9	69
21	Matching Widely Separated Views Based on Affine Invariant Regions. <i>International Journal of Computer Vision</i> , 2004 , 59, 61-85	10.6	410
20	Vision Based Intelligent Wheel Chair Control: The Role of Vision and Inertial Sensing in Topological Navigation. <i>Journal of Field Robotics</i> , 2004 , 21, 85-94		9
19	Moment invariants for recognition under changing viewpoint and illumination. <i>Computer Vision and Image Understanding</i> , 2004 , 94, 3-27	4.3	160
18	Dense matching of multiple wide-baseline views 2003 ,		69
17	. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2003 , 25, 418-432	13.3	46
16	HPAT Indexing for Fast Object/Scene Recognition Based on Local Appearance 2003 , 71-80		46
15	Local Features for Image Retrieval. <i>Computational Imaging and Vision</i> , 2001 , 21-41		10
14	Grouping via the Matching of Repeated Patterns. <i>Lecture Notes in Computer Science</i> , 2001 , 252-261	0.9	3
13	Adventurous Tourism for Couch Potatoes. <i>Lecture Notes in Computer Science</i> , 1999 , 98-107	0.9	2
12	Content-Based Image Retrieval Based on Local Affinely Invariant Regions. <i>Lecture Notes in Computer Science</i> , 1999 , 493-500	0.9	87
11	The cascaded Hough transform as support for grouping and finding vanishing points and lines. <i>Lecture Notes in Computer Science</i> , 1997 , 278-289	0.9	9
10	The cascaded Hough transform		16

9	The cascaded Hough transform as an aid in aerial image interpretation	36
8	Is structure needed for omnidirectional visual homing?	5
7	Localization with omnidirectional images using the radial trifocal tensor	6
6	Wide-baseline multiple-view correspondences	40
5	Efficient grouping under perspective skew	12
4	Markerless augmented reality with a real-time affine region tracker	27
3	Modeling shapes and textures from images: new frontiers	4
2	Real-time affine region tracking and coplanar grouping	18
1	Can we Localize an AV from a Single Image? Deep-Geometric 6 DoF Localization in Topo-metric Maps. <i>ASME Journal of Autonomous Vehicles and Systems</i> ,1-13	