

Tinne Tuytelaars

List of Publications by Year in descending order

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Version: 2024-02-01

197
papers

30,812
citations

117625

34
h-index

46799

89
g-index

202
all docs

202
docs citations

202
times ranked

17985
citing authors

#	ARTICLE	IF	CITATIONS
1	Speeded-Up Robust Features (SURF). Computer Vision and Image Understanding, 2008, 110, 346-359.	4.7	10,820
2	A Comparison of Affine Region Detectors. International Journal of Computer Vision, 2005, 65, 43-72.	15.6	2,469
3	Local Invariant Feature Detectors: A Survey. Foundations and Trends in Computer Graphics and Vision, 2007, 3, 177-280.	4.5	999
4	Unsupervised Visual Domain Adaptation Using Subspace Alignment. , 2013, , .		824
5	Matching Widely Separated Views Based on Affine Invariant Regions. International Journal of Computer Vision, 2004, 59, 61-85.	15.6	518
6	An Efficient Dense and Scale-Invariant Spatio-Temporal Interest Point Detector. Lecture Notes in Computer Science, 2008, , 650-663.	1.3	508
7	Memory Aware Synapses: Learning What (not) to Forget. Lecture Notes in Computer Science, 2018, , 144-161.	1.3	429
8	A continual learning survey: Defying forgetting in classification tasks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	367
9	Modeling video evolution for action recognition. , 2015, , .		362
10	Guiding the Long-Short Term Memory Model for Image Caption Generation. , 2015, , .		273
11	Modeling scenes with local descriptors and latent aspects. , 2005, , .		259
12	Expert Gate: Lifelong Learning with a Network of Experts. , 2017, , .		253
13	Rank Pooling for Action Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 773-787.	13.9	215
14	Moment invariants for recognition under changing viewpoint and illumination. Computer Vision and Image Understanding, 2004, 94, 3-27.	4.7	198
15	Seeking the Strongest Rigid Detector. , 2013, , .		193
16	Simultaneous Object Recognition and Segmentation from Single or Multiple Model Views. International Journal of Computer Vision, 2006, 67, 159-188.	15.6	172
17	A Thousand Words in a Scene. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1575-1589.	13.9	164
18	Omnidirectional Vision Based Topological Navigation. International Journal of Computer Vision, 2007, 74, 219-236.	15.6	160

#	ARTICLE	IF	CITATIONS
19	Unsupervised Object Discovery: A Comparison. International Journal of Computer Vision, 2010, 88, 284-302.	15.6	149
20	Weakly supervised object detection with convex clustering. , 2015, , .		138
21	Fine-Grained Categorization by Alignments. , 2013, , .		136
22	Encoder Based Lifelong Learning. , 2017, , .		134
23	Sketch classification and classification-driven analysis using Fisher vectors. ACM Transactions on Graphics, 2014, 33, 1-9.	7.2	127
24	Task-Free Continual Learning. , 2019, , .		126
25	Discriminatively Trained Templates for 3D Object Detection: A Real Time Scalable Approach. , 2013, , .		121
26	Content-Based Image Retrieval Based on Local Affinely Invariant Regions. Lecture Notes in Computer Science, 1999, , 493-500.	1.3	119
27	Vector Quantizing Feature Space with a Regular Lattice. , 2007, , .		118
28	A Deeper Look at Dataset Bias. Advances in Computer Vision and Pattern Recognition, 2017, , 37-55.	1.3	114
29	Simultaneous Object Recognition and Segmentation by Image Exploration. Lecture Notes in Computer Science, 2004, , 40-54.	1.3	112
30	Dense matching of multiple wide-baseline views. , 2003, , .		94
31	DeepProposal: Hunting Objects by Cascading Deep Convolutional Layers. , 2015, , .		84
32	Online Action Detection. Lecture Notes in Computer Science, 2016, , 269-284.	1.3	83
33	The NBNN kernel. , 2011, , .		82
34	Dynamic Convolutions: Exploiting Spatial Sparsity for Faster Inference. , 2020, , .		81
35	Dense interest points. , 2010, , .		75
36	Deep Reflectance Maps. , 2016, , .		75

#	ARTICLE	IF	CITATIONS
37	Wide-baseline multiple-view correspondences. , 0, , .		68
38	Mining Mid-level Features for Image Classification. International Journal of Computer Vision, 2014, 108, 186-203.	15.6	68
39	HPAT Indexing for Fast Object/Scene Recognition Based on Local Appearance. , 2003, , 71-80.		63
40	Noncombinatorial detection of regular repetitions under perspective skew. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 418-432.	13.9	61
41	Continual Prototype Evolution: Learning Online from Non-Stationary Data Streams. , 2021, , .		58
42	Deformable part models revisited: A performance evaluation for object category pose estimation. , 2011, , .		56
43	Reflectance and Natural Illumination from Single-Material Specular Objects Using Deep Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1932-1947.	13.9	55
44	Modeling Temporal Structure with LSTM for Online Action Detection. , 2018, , .		55
45	From omnidirectional images to hierarchical localization. Robotics and Autonomous Systems, 2007, 55, 372-382.	5.1	50
46	Local Alignments for Fine-Grained Categorization. International Journal of Computer Vision, 2015, 111, 191-212.	15.6	50
47	The cascaded Hough transform as an aid in aerial image interpretation. , 0, , .		49
48	CNN-based single image obstacle avoidance on a quadrotor. , 2017, , .		48
49	Feature based omnidirectional sparse visual path following. , 2005, , .		47
50	Active Transfer Learning with Zero-Shot Priors: Reusing Past Datasets for Future Tasks. , 2015, , .		47
51	Efficient multi-camera vehicle detection, tracking, and identification in a tunnel surveillance application. Computer Vision and Image Understanding, 2012, 116, 742-753.	4.7	44
52	Example-Based Sketch Segmentation and Labeling Using CRFs. ACM Transactions on Graphics, 2016, 35, 1-9.	7.2	44
53	Novel Views of Objects from a Single Image. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1576-1590.	13.9	44
54	Avalanche: an End-to-End Library for Continual Learning. , 2021, , .		42

#	ARTICLE	IF	CITATIONS
55	Joint cross-domain classification and subspace learning for unsupervised adaptation. Pattern Recognition Letters, 2015, 65, 60-66.	4.2	41
56	Markerless augmented reality with a real-time affine region tracker. , 0, , .		39
57	A Deeper Look at Dataset Bias. Lecture Notes in Computer Science, 2015, , 504-516.	1.3	39
58	Kernelized Sorting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1809-1821.	13.9	38
59	Effective Use of Frequent Itemset Mining for Image Classification. Lecture Notes in Computer Science, 2012, , 214-227.	1.3	38
60	What is Around the Camera?. , 2017, , .		36
61	Camera-Based Fall Detection on Real World Data. Lecture Notes in Computer Science, 2012, , 356-375.	1.3	36
62	Real-time affine region tracking and coplanar grouping. , 0, , .		34
63	Cross-Media Alignment of Names and Faces. IEEE Transactions on Multimedia, 2010, 12, 13-27.	7.2	34
64	Mixture Dense Regression for Object Detection and Human Pose Estimation. , 2020, , .		34
65	Mining Multiple Queries for Image Retrieval: On-the-Fly Learning of an Object-Specific Mid-level Representation. , 2013, , .		30
66	Computer Vision and Human Behaviour, Emotion and Cognition Detection: A Use Case on Student Engagement. Mathematics, 2021, 9, 287.	2.2	29
67	More Classifiers, Less Forgetting: A Generic Multi-classifier Paradigm for Incremental Learning. Lecture Notes in Computer Science, 2020, , 699-716.	1.3	29
68	The cascaded Hough transform. , 0, , .		28
69	Image-Based Synthesis and Re-synthesis of Viewpoints Guided by 3D Models. , 2014, , .		28
70	Camera-based fall detection using real-world versus simulated data: How far are we from the solution?. Journal of Ambient Intelligence and Smart Environments, 2016, 8, 149-168.	1.4	28
71	Cross-Modal Supervision for Learning Active Speaker Detection in Video. Lecture Notes in Computer Science, 2016, , 285-301.	1.3	28
72	Exemplar-based Action Recognition in Video. , 2009, , .		28

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73	Naming People in News Videos with Label Propagation. IEEE MultiMedia, 2011, 18, 44-55.	1.7	25
74	Rehearsal revealed: The limits and merits of revisiting samples in continual learning. , 2021, , .		25
75	Spatio-temporal features for robust content-based video copy detection. , 2008, , .		24
76	Is 2D Information Enough For Viewpoint Estimation?. , 2014, , .		24
77	Who's Speaking?. , 2015, , .		23
78	Weakly Supervised Detection with Posterior Regularization. , 2014, , .		20
79	Efficient multi-camera detection, tracking, and identification using a shared set of haar-features. , 2011, , .		19
80	Scalable Semi-Automatic Annotation for Multi-Camera Person Tracking. IEEE Transactions on Image Processing, 2016, 25, 2259-2274.	9.8	19
81	A Testbed for Cross-Dataset Analysis. Lecture Notes in Computer Science, 2015, , 18-31.	1.3	19
82	Depth-From-Recognition: Inferring Meta-data by Cognitive Feedback. , 2007, , .		18
83	Towards a more discriminative and semantic visual vocabulary. Computer Vision and Image Understanding, 2011, 115, 415-425.	4.7	18
84	Location recognition over large time lags. Computer Vision and Image Understanding, 2015, 139, 21-28.	4.7	18
85	Efficient grouping under perspective skew. , 0, , .		17
86	Shape-from-recognition: Recognition enables meta-data transfer. Computer Vision and Image Understanding, 2009, 113, 1222-1234.	4.7	17
87	Beyond 2D-grids. , 2010, , .		17
88	Finding a needle in a haystack: an interactive video archive explorer for professional video searchers. Multimedia Tools and Applications, 2013, 63, 331-356.	3.9	17
89	Naming persons in news video with label propagation. , 2010, , .		15
90	Camera-based fall detection using a particle filter. , 2015, 2015, 6947-50.		15

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91	Active speaker detection with audio-visual co-training. , 2016, , .		15
92	A Deep Multi-Modal Explanation Model for Zero-Shot Learning. IEEE Transactions on Image Processing, 2020, 29, 4788-4803.	9.8	15
93	All together now: Simultaneous Detection and Continuous Pose Estimation using a Hough Forest with Probabilistic Locally Enhanced Voting. , 2014, , .		15
94	Using spatio-temporal interest points (STIP) for myoclonic jerk detection in nocturnal video. , 2012, 2012, 4454-7.		14
95	DeepProposals: Hunting Objects and Actions by Cascading Deep Convolutional Layers. International Journal of Computer Vision, 2017, 124, 115-131.	15.6	14
96	The cascaded Hough transform as support for grouping and finding vanishing points and lines. Lecture Notes in Computer Science, 1997, , 278-289.	1.3	13
97	HPatches: A benchmark and evaluation of handcrafted and learned local descriptors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	13.9	13
98	Naive Bayes Image Classification: Beyond Nearest Neighbors. Lecture Notes in Computer Science, 2013, , 689-703.	1.3	13
99	Inline nondestructive internal disorder detection in pear fruit using explainable deep anomaly detection on X-ray images. Computers and Electronics in Agriculture, 2022, 197, 106962.	7.7	13
100	Localization with omnidirectional images using the radial trifocal tensor. , 0, , .		12
101	Video object proposals. , 2012, , .		12
102	An Elastic Deformation Field Model for Object Detection and Tracking. International Journal of Computer Vision, 2015, 111, 137-152.	15.6	12
103	Ternary Feature Masks: zero-forgetting for task-incremental learning. , 2021, , .		12
104	Lightweight Unsupervised Domain Adaptation by Convolutional Filter Reconstruction. Lecture Notes in Computer Science, 2016, , 508-515.	1.3	12
105	Local Features for Image Retrieval. Computational Imaging and Vision, 2001, , 21-41.	0.6	12
106	Using Multi-view Recognition and Meta-data Annotation to Guide a Robot's Attention. International Journal of Robotics Research, 2009, 28, 976-998.	8.5	11
107	Non-Overlapping Multi-camera Detection and Tracking of Vehicles in Tunnel Surveillance. , 2011, , .		11
108	Integrating video and accelerometer signals for nocturnal epileptic seizure detection. , 2012, , .		11

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109	Color features for dating historical color images. , 2014, , .		11
110	Boosting masked dominant orientation templates for efficient object detection. Computer Vision and Image Understanding, 2014, 120, 103-116.	4.7	11
111	Vision Based Intelligent Wheel Chair Control: The Role of Vision and Inertial Sensing in Topological Navigation. Journal of Field Robotics, 2004, 21, 85-94.	0.7	10
112	Towards sign language recognition based on body parts relations. , 2015, , .		10
113	Dataset fingerprints: Exploring image collections through data mining. , 2015, , .		10
114	Three Ways to Improve the Performance of Real-Life Camera-Based Fall Detection Systems. Journal of Sensors, 2017, 2017, 1-15.	1.1	10
115	Pedestrian Detection at Warp Speed: Exceeding 500 Detections per Second. , 2013, , .		9
116	Using a Deformation Field Model for Localizing Faces and Facial Points under Weak Supervision. , 2014, , .		9
117	The CAMETRON Lecture Recording System: High Quality Video Recording and Editing withÂMinimal Human Supervision. Lecture Notes in Computer Science, 2018, , 518-530.	1.3	9
118	A Relational Kernel-Based Framework for Hierarchical Image Understanding. Lecture Notes in Computer Science, 2012, , 171-180.	1.3	9
119	Dense interest features for video processing. , 2014, , .		8
120	Learning to Rank Based on Subsequences. , 2015, , .		8
121	Unsupervised Model Personalization While Preserving Privacy and Scalability: An Open Problem. , 2020, , .		8
122	Is structure needed for omnidirectional visual homing?. , 0, , .		7
123	Multi RGB-D camera setup for generating large 3D point clouds. , 2013, , .		7
124	Continuous Pose Estimation with a Spatial Ensemble of Fisher Regressors. , 2015, , .		7
125	Pose Estimation Errors, the Ultimate Diagnosis. Lecture Notes in Computer Science, 2016, , 118-134.	1.3	7
126	Wildlife recognition in nature documentaries with weak supervision from subtitles and external data. Pattern Recognition Letters, 2016, 81, 63-70.	4.2	7

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127	How to Improve CNN-Based 6-DoF Camera Pose Estimation. , 2019, , .		7
128	Monocular Depth Estimation in New Environments With Absolute Scale. , 2019, , .		7
129	Visual Topological Map Building in Self-similar Environments. , 2008, , 195-205.		7
130	The Pooled NBNN Kernel: Beyond Image-to-Class and Image-to-Image. Lecture Notes in Computer Science, 2013, , 176-189.	1.3	7
131	Modeling shapes and textures from images: new frontiers. , 0, , .		6
132	Allocentric Pose Estimation. , 2013, , .		6
133	Automatic annotation of unique locations from video and text. , 2010, , .		6
134	Range determination for mobile robots using an omnidirectional camera. Integrated Computer-Aided Engineering, 2007, 14, 63-72.	4.6	5
135	Object Classification with Adaptable Regions. , 2014, , .		5
136	There are plenty of places like home: Using relational representations in hierarchies for distance-based image understanding. Neurocomputing, 2014, 123, 75-85.	5.9	5
137	Recovering hard-to-find object instances by sampling context-based object proposals. Computer Vision and Image Understanding, 2016, 152, 118-130.	4.7	5
138	Entity linking across vision and language. Multimedia Tools and Applications, 2017, 76, 22599-22622.	3.9	5
139	Residual Tuning: Toward Novel Category Discovery Without Labels. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7271-7285.	11.3	5
140	Naming persons in video: Using the weak supervision of textual stories. Journal of Visual Communication and Image Representation, 2013, 24, 944-955.	2.8	4
141	A relational kernel-based approach to scene classification. , 2013, , .		4
142	A Scalable 3D HOG Model for Fast Object Detection and Viewpoint Estimation. , 2014, , .		4
143	Multidisciplinary Learning through Implementation of the DVB-S2 Standard. IEEE Communications Magazine, 2017, 55, 124-130.	6.1	4
144	From Pixels to Actions: Learning to Drive a Car with Deep Neural Networks. , 2018, , .		4

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145	Multiple Exemplars-Based Hallucination for Face Super-Resolution and Editing. Lecture Notes in Computer Science, 2021, , 258-273.	1.3	4
146	Learning Multi-instance Sub-pixel Point Localization. Lecture Notes in Computer Science, 2021, , 669-686.	1.3	4
147	Grouping via the Matching of Repeated Patterns. Lecture Notes in Computer Science, 2001, , 252-261.	1.3	4
148	Attend and Segment: Attention Guided Active Semantic Segmentation. Lecture Notes in Computer Science, 2020, , 305-321.	1.3	4
149	BlockCopy: High-Resolution Video Processing with Block-Sparse Feature Propagation and Online Policies. , 2021, , .		4
150	Special issue on 3D representation for object and scene recognition. Computer Vision and Image Understanding, 2009, 113, 1181-1182.	4.7	3
151	Content-based analysis for accessing audiovisual archives: Alternatives for concept-based indexing and search. , 2012, , .		3
152	Vision and Language Integration Meets Multimedia Fusion. , 2016, , .		3
153	Darwintrees for Action Recognition. , 2017, , .		3
154	An Analysis of Human-Centered Geolocation. , 2018, , .		3
155	Real-Time Embedded Computer Vision on UAVs. Lecture Notes in Computer Science, 2019, , 3-10.	1.3	3
156	MIXâ€™EM: Unsupervised Image Classification Using a Mixture of Embeddings. Lecture Notes in Computer Science, 2021, , 38-55.	1.3	3
157	Fast Head Pose Estimation for Human-Computer Interaction. Lecture Notes in Computer Science, 2015, , 101-110.	1.3	3
158	Whoâ€™s that Actor? Automatic Labelling of Actors in TV Series Starting from IMDB Images. Lecture Notes in Computer Science, 2017, , 467-483.	1.3	3
159	Towards Automatic Image Editing: Learning to See another You. , 2016, , .		3
160	Learning to ground medical text in a 3D human atlas. , 2020, , .		3
161	SegBlocks: Towards Block-Based Adaptive Resolution Networks for Fast Segmentation. Lecture Notes in Computer Science, 2020, , 18-22.	1.3	3
162	The Combinator: Optimal Combination of Multiple Pedestrian Detectors. , 2014, , .		2

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163	Towards cautious collective inference for object verification. , 2014, , .		2
164	Swap Retrieval. , 2015, , .		2
165	Error Correction for Dense Semantic Image Labeling. , 2018, , .		2
166	In Defense of LSTMs for Addressing Multiple Instance Learning Problems. Lecture Notes in Computer Science, 2021, , 444-460.	1.3	2
167	Adventurous Tourism for Couch Potatoes. Lecture Notes in Computer Science, 1999, , 98-107.	1.3	2
168	Real-Time Embedded Computer Vision on UAVs:. Lecture Notes in Computer Science, 2020, , 665-674.	1.3	2
169	Processor Architecture Optimization for Spatially Dynamic Neural Networks. , 2021, , .		2
170	Codebook-free exemplar models for object detection. , 2012, , .		1
171	Learning Like a Toddler. , 2014, , .		1
172	Action in chains: A chains model for action localization and classification. , 2014, , .		1
173	Coupling video segmentation and action recognition. , 2014, , .		1
174	Learning Where to Position Parts in 3D. , 2015, , .		1
175	DoShiCo challenge: Domain shift in control prediction. , 2018, , .		1
176	Unpaired Image-To-Image Shape Translation Across Fashion Data. , 2020, , .		1
177	Can We Localize an Autonomous Vehicle From a Single Image? Deep-Geometric Six Degrees-of-Freedom Localization in Topo-Metric Maps. ASME Journal of Autonomous Vehicles and Systems, 2021, 1, .	0.7	1
178	Class Representative Visual Words for Category-Level Object Recognition. Lecture Notes in Computer Science, 2009, , 184-191.	1.3	1
179	Commands 4 Autonomous Vehicles (C4AV) Workshop Summary. Lecture Notes in Computer Science, 2020, , 3-26.	1.3	1
180	Exploring Scale-Induced Feature Hierarchies in Natural Images. , 2009, , .		0

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181	Context-based object viewpoint estimation: A 2D relational approach. Computer Vision and Image Understanding, 2017, 160, 100-113.	4.7	0
182	Unsupervised Domain Adaptation Based on Subspace Alignment. Advances in Computer Vision and Pattern Recognition, 2017, , 81-94.	1.3	0
183	Text-Enriched Representations for News Image Classification. , 2018, , .		0
184	Vision and Language Integration Meets Multimedia Fusion. IEEE MultiMedia, 2018, 25, 7-10.	1.7	0
185	Towards Object Shape Translation Through Unsupervised Generative Deep Models. , 2019, , .		0
186	Show me where the action is!. Multimedia Tools and Applications, 2021, 80, 383-408.	3.9	0
187	Wide Baseline Matching. , 2021, , 1391-1394.		0
188	A Shape Based, Viewpoint Invariant Local Descriptor. Lecture Notes in Computer Science, 2005, , 349-359.	1.3	0
189	7 th Dutch-Belgian Information Retrieval Workshop March 28-29, 2007 Katholieke Universiteit Leuven, Belgium. ACM SIGIR Forum, 2007, 41, 121-122.	0.5	0
190	Not Far Away from Home: A Relational Distance-Based Approach to Understanding Images of Houses. Lecture Notes in Computer Science, 2011, , 22-29.	1.3	0
191	Wide Baseline Matching. , 2014, , 888-891.		0
192	Curvature-based Human Body Parts Segmentation in Physiotherapy. , 2015, , .		0
193	Spatio-Temporal Object Recognition. Lecture Notes in Computer Science, 2015, , 681-692.	1.3	0
194	Motion blur characterization and compensation for line scan (1D) cameras. , 2017, , .		0
195	Exploring the Challenges Towards Lifelong Fact Learning. Lecture Notes in Computer Science, 2019, , 66-84.	1.3	0
196	Wide Baseline Matching. , 2021, , 1-4.		0
197	Feed-Forward On-Edge Fine-Tuning Using Static Synthetic Gradient Modules. Lecture Notes in Computer Science, 2020, , 131-146.	1.3	0