

Tinne Tuytelaars

List of Publications by Year in descending order

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Version: 2024-02-01

197
papers

30,812
citations

117571

34
h-index

46771

89
g-index

202
all docs

202
docs citations

202
times ranked

17985
citing authors

#	ARTICLE	IF	CITATIONS
1	Residual Tuning: Toward Novel Category Discovery Without Labels. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7271-7285.	7.2	5
2	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.	3.7	13
3	Show me where the action is!. Multimedia Tools and Applications, 2021, 80, 383-408.	2.6	0
4	MIX&MEM: Unsupervised Image Classification Using a Mixture of Embeddings. Lecture Notes in Computer Science, 2021, , 38-55.	1.0	3
5	In Defense of LSTMs for Addressing Multiple Instance Learning Problems. Lecture Notes in Computer Science, 2021, , 444-460.	1.0	2
6	Computer Vision and Human Behaviour, Emotion and Cognition Detection: A Use Case on Student Engagement. Mathematics, 2021, 9, 287.	1.1	29
7	Ternary Feature Masks: zero-forgetting for task-incremental learning. , 2021, , .		12
8	Avalanche: an End-to-End Library for Continual Learning. , 2021, , .		42
9	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, .	0.6	1
10	Multiple Exemplars-Based Hallucination for Face Super-Resolution and Editing. Lecture Notes in Computer Science, 2021, , 258-273.	1.0	4
11	Learning Multi-instance Sub-pixel Point Localization. Lecture Notes in Computer Science, 2021, , 669-686.	1.0	4
12	A continual learning survey: Defying forgetting in classification tasks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	367
13	Wide Baseline Matching. , 2021, , 1391-1394.		0
14	Wide Baseline Matching. , 2021, , 1-4.		0
15	Processor Architecture Optimization for Spatially Dynamic Neural Networks. , 2021, , .		2
16	Continual Prototype Evolution: Learning Online from Non-Stationary Data Streams. , 2021, , .		58
17	Rehearsal revealed: The limits and merits of revisiting samples in continual learning. , 2021, , .		25
18	BlockCopy: High-Resolution Video Processing with Block-Sparse Feature Propagation and Online Policies. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
19	Dynamic Convolutions: Exploiting Spatial Sparsity for Faster Inference. , 2020, , .		81
20	Unpaired Image-To-Image Shape Translation Across Fashion Data. , 2020, , .		1
21	Mixture Dense Regression for Object Detection and Human Pose Estimation. , 2020, , .		34
22	Unsupervised Model Personalization While Preserving Privacy and Scalability: An Open Problem. , 2020, , .		8
23	A Deep Multi-Modal Explanation Model for Zero-Shot Learning. IEEE Transactions on Image Processing, 2020, 29, 4788-4803.	6.0	15
24	More Classifiers, Less Forgetting: A Generic Multi-classifier Paradigm for Incremental Learning. Lecture Notes in Computer Science, 2020, , 699-716.	1.0	29
25	Learning to ground medical text in a 3D human atlas. , 2020, , .		3
26	Attend and Segment: Attention Guided Active Semantic Segmentation. Lecture Notes in Computer Science, 2020, , 305-321.	1.0	4
27	Commands 4 Autonomous Vehicles (C4AV) Workshop Summary. Lecture Notes in Computer Science, 2020, , 3-26.	1.0	1
28	SegBlocks: Towards Block-Based Adaptive Resolution Networks for Fast Segmentation. Lecture Notes in Computer Science, 2020, , 18-22.	1.0	3
29	Feed-Forward On-Edge Fine-Tuning Using Static Synthetic Gradient Modules. Lecture Notes in Computer Science, 2020, , 131-146.	1.0	0
30	Real-Time Embedded Computer Vision on UAVs:. Lecture Notes in Computer Science, 2020, , 665-674.	1.0	2
31	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
32	Real-Time Embedded Computer Vision on UAVs. Lecture Notes in Computer Science, 2019, , 3-10.	1.0	3
33	How to Improve CNN-Based 6-DoF Camera Pose Estimation. , 2019, , .		7
34	Towards Object Shape Translation Through Unsupervised Generative Deep Models. , 2019, , .		0
35	Monocular Depth Estimation in New Environments With Absolute Scale. , 2019, , .		7
36	Task-Free Continual Learning. , 2019, , .		126

#	ARTICLE	IF	CITATIONS
37	Exploring the Challenges Towards Lifelong Fact Learning. Lecture Notes in Computer Science, 2019, , 66-84.	1.0	0
38	Reflectance and Natural Illumination from Single-Material Specular Objects Using Deep Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1932-1947.	9.7	55
39	Error Correction for Dense Semantic Image Labeling. , 2018, , .		2
40	Memory Aware Synapses: Learning What (not) to Forget. Lecture Notes in Computer Science, 2018, , 144-161.	1.0	429
41	Text-Enriched Representations for News Image Classification. , 2018, , .		0
42	Modeling Temporal Structure with LSTM for Online Action Detection. , 2018, , .		55
43	An Analysis of Human-Centered Geolocation. , 2018, , .		3
44	DoShiCo challenge: Domain shift in control prediction. , 2018, , .		1
45	From Pixels to Actions: Learning to Drive a Car with Deep Neural Networks. , 2018, , .		4
46	Vision and Language Integration Meets Multimedia Fusion. IEEE MultiMedia, 2018, 25, 7-10.	1.5	0
47	The CAMETRON Lecture Recording System: High Quality Video Recording and Editing with Minimal Human Supervision. Lecture Notes in Computer Science, 2018, , 518-530.	1.0	9
48	Rank Pooling for Action Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 773-787.	9.7	215
49	Context-based object viewpoint estimation: A 2D relational approach. Computer Vision and Image Understanding, 2017, 160, 100-113.	3.0	0
50	Multidisciplinary Learning through Implementation of the DVB-S2 Standard. IEEE Communications Magazine, 2017, 55, 124-130.	4.9	4
51	DeepProposals: Hunting Objects and Actions by Cascading Deep Convolutional Layers. International Journal of Computer Vision, 2017, 124, 115-131.	10.9	14
52	Unsupervised Domain Adaptation Based on Subspace Alignment. Advances in Computer Vision and Pattern Recognition, 2017, , 81-94.	0.9	0
53	A Deeper Look at Dataset Bias. Advances in Computer Vision and Pattern Recognition, 2017, , 37-55.	0.9	114
54	CNN-based single image obstacle avoidance on a quadrotor. , 2017, , .		48

#	ARTICLE	IF	CITATIONS
55	Entity linking across vision and language. Multimedia Tools and Applications, 2017, 76, 22599-22622.	2.6	5
56	What is Around the Camera?. , 2017, , .		36
57	Expert Gate: Lifelong Learning with a Network of Experts. , 2017, , .		253
58	Darwintrees for Action Recognition. , 2017, , .		3
59	Encoder Based Lifelong Learning. , 2017, , .		134
60	Three Ways to Improve the Performance of Real-Life Camera-Based Fall Detection Systems. Journal of Sensors, 2017, 2017, 1-15.	0.6	10
61	Whoâ€™s that Actor? Automatic Labelling of Actors in TV Series Starting from IMDB Images. Lecture Notes in Computer Science, 2017, , 467-483.	1.0	3
62	Novel Views of Objects from a Single Image. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1576-1590.	9.7	44
63	Motion blur characterization and compensation for line scan (1D) cameras. , 2017, , .		0
64	Scalable Semi-Automatic Annotation for Multi-Camera Person Tracking. IEEE Transactions on Image Processing, 2016, 25, 2259-2274.	6.0	19
65	Recovering hard-to-find object instances by sampling context-based object proposals. Computer Vision and Image Understanding, 2016, 152, 118-130.	3.0	5
66	Example-Based Sketch Segmentation and Labeling Using CRFs. ACM Transactions on Graphics, 2016, 35, 1-9.	4.9	44
67	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.	0.8	28
68	Vision and Language Integration Meets Multimedia Fusion. , 2016, , .		3
69	Pose Estimation Errors, the Ultimate Diagnosis. Lecture Notes in Computer Science, 2016, , 118-134.	1.0	7
70	Cross-Modal Supervision for Learning Active Speaker Detection in Video. Lecture Notes in Computer Science, 2016, , 285-301.	1.0	28
71	Active speaker detection with audio-visual co-training. , 2016, , .		15
72	Deep Reflectance Maps. , 2016, , .		75

#	ARTICLE	IF	CITATIONS
73	Wildlife recognition in nature documentaries with weak supervision from subtitles and external data. Pattern Recognition Letters, 2016, 81, 63-70.	2.6	7
74	Online Action Detection. Lecture Notes in Computer Science, 2016, , 269-284.	1.0	83
75	Lightweight Unsupervised Domain Adaptation by Convolutional Filter Reconstruction. Lecture Notes in Computer Science, 2016, , 508-515.	1.0	12
76	Towards Automatic Image Editing: Learning to See another You. , 2016, , .		3
77	Who's Speaking?. , 2015, , .		23
78	Weakly supervised object detection with convex clustering. , 2015, , .		138
79	Modeling video evolution for action recognition. , 2015, , .		362
80	Guiding the Long-Short Term Memory Model for Image Caption Generation. , 2015, , .		273
81	Continuous Pose Estimation with a Spatial Ensemble of Fisher Regressors. , 2015, , .		7
82	DeepProposal: Hunting Objects by Cascading Deep Convolutional Layers. , 2015, , .		84
83	Active Transfer Learning with Zero-Shot Priors: Reusing Past Datasets for Future Tasks. , 2015, , .		47
84	Camera-based fall detection using a particle filter. , 2015, 2015, 6947-50.		15
85	Learning Where to Position Parts in 3D. , 2015, , .		1
86	Learning to Rank Based on Subsequences. , 2015, , .		8
87	Towards sign language recognition based on body parts relations. , 2015, , .		10
88	Dataset fingerprints: Exploring image collections through data mining. , 2015, , .		10
89	Local Alignments for Fine-Grained Categorization. International Journal of Computer Vision, 2015, 111, 191-212.	10.9	50
90	An Elastic Deformation Field Model for Object Detection and Tracking. International Journal of Computer Vision, 2015, 111, 137-152.	10.9	12

#	ARTICLE	IF	CITATIONS
91	Swap Retrieval. , 2015, , .		2
92	Location recognition over large time lags. Computer Vision and Image Understanding, 2015, 139, 21-28.	3.0	18
93	Joint cross-domain classification and subspace learning for unsupervised adaptation. Pattern Recognition Letters, 2015, 65, 60-66.	2.6	41
94	Fast Head Pose Estimation for Human-Computer Interaction. Lecture Notes in Computer Science, 2015, , 101-110.	1.0	3
95	A Deeper Look at Dataset Bias. Lecture Notes in Computer Science, 2015, , 504-516.	1.0	39
96	A Testbed for Cross-Dataset Analysis. Lecture Notes in Computer Science, 2015, , 18-31.	1.0	19
97	Curvature-based Human Body Parts Segmentation in Physiotherapy. , 2015, , .		0
98	Spatio-Temporal Object Recognition. Lecture Notes in Computer Science, 2015, , 681-692.	1.0	0
99	Using a Deformation Field Model for Localizing Faces and Facial Points under Weak Supervision. , 2014, , .		9
100	The Combinator: Optimal Combination of Multiple Pedestrian Detectors. , 2014, , .		2
101	Color features for dating historical color images. , 2014, , .		11
102	Sketch classification and classification-driven analysis using Fisher vectors. ACM Transactions on Graphics, 2014, 33, 1-9.	4.9	127
103	Dense interest features for video processing. , 2014, , .		8
104	Learning Like a Toddler. , 2014, , .		1
105	Image-Based Synthesis and Re-synthesis of Viewpoints Guided by 3D Models. , 2014, , .		28
106	Object Classification with Adaptable Regions. , 2014, , .		5
107	A Scalable 3D HOG Model for Fast Object Detection and Viewpoint Estimation. , 2014, , .		4
108	There are plenty of places like home: Using relational representations in hierarchies for distance-based image understanding. Neurocomputing, 2014, 123, 75-85.	3.5	5

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109	Mining Mid-level Features for Image Classification. International Journal of Computer Vision, 2014, 108, 186-203.	10.9	68
110	Action in chains: A chains model for action localization and classification. , 2014, , .		1
111	Towards cautious collective inference for object verification. , 2014, , .		2
112	Coupling video segmentation and action recognition. , 2014, , .		1
113	Boosting masked dominant orientation templates for efficient object detection. Computer Vision and Image Understanding, 2014, 120, 103-116.	3.0	11
114	Is 2D Information Enough For Viewpoint Estimation?. , 2014, , .		24
115	Weakly Supervised Detection with Posterior Regularization. , 2014, , .		20
116	All together now: Simultaneous Detection and Continuous Pose Estimation using a Hough Forest with Probabilistic Locally Enhanced Voting. , 2014, , .		15
117	Wide Baseline Matching. , 2014, , 888-891.		0
118	Finding a needle in a haystack: an interactive video archive explorer for professional video searchers. Multimedia Tools and Applications, 2013, 63, 331-356.	2.6	17
119	Naming persons in video: Using the weak supervision of textual stories. Journal of Visual Communication and Image Representation, 2013, 24, 944-955.	1.7	4
120	Allocentric Pose Estimation. , 2013, , .		6
121	Discriminatively Trained Templates for 3D Object Detection: A Real Time Scalable Approach. , 2013, , .		121
122	Pedestrian Detection at Warp Speed: Exceeding 500 Detections per Second. , 2013, , .		9
123	A relational kernel-based approach to scene classification. , 2013, , .		4
124	Fine-Grained Categorization by Alignments. , 2013, , .		136
125	Mining Multiple Queries for Image Retrieval: On-the-Fly Learning of an Object-Specific Mid-level Representation. , 2013, , .		30
126	Seeking the Strongest Rigid Detector. , 2013, , .		193

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127	Unsupervised Visual Domain Adaptation Using Subspace Alignment. , 2013, , .		824
128	Multi RGB-D camera setup for generating large 3D point clouds. , 2013, , .		7
129	The Pooled NBNN Kernel: Beyond Image-to-Class and Image-to-Image. Lecture Notes in Computer Science, 2013, , 176-189.	1.0	7
130	Naive Bayes Image Classification: Beyond Nearest Neighbors. Lecture Notes in Computer Science, 2013, , 689-703.	1.0	13
131	Integrating video and accelerometer signals for nocturnal epileptic seizure detection. , 2012, , .		11
132	Codebook-free exemplar models for object detection. , 2012, , .		1
133	Using spatio-temporal interest points (STIP) for myoclonic jerk detection in nocturnal video. , 2012, 2012, 4454-7.		14
134	Video object proposals. , 2012, , .		12
135	Content-based analysis for accessing audiovisual archives: Alternatives for concept-based indexing and search. , 2012, , .		3
136	Efficient multi-camera vehicle detection, tracking, and identification in a tunnel surveillance application. Computer Vision and Image Understanding, 2012, 116, 742-753.	3.0	44
137	Effective Use of Frequent Itemset Mining for Image Classification. Lecture Notes in Computer Science, 2012, , 214-227.	1.0	38
138	Camera-Based Fall Detection on Real World Data. Lecture Notes in Computer Science, 2012, , 356-375.	1.0	36
139	A Relational Kernel-Based Framework for Hierarchical Image Understanding. Lecture Notes in Computer Science, 2012, , 171-180.	1.0	9
140	Deformable part models revisited: A performance evaluation for object category pose estimation. , 2011, , .		56
141	The NBNN kernel. , 2011, , .		82
142	Naming People in News Videos with Label Propagation. IEEE MultiMedia, 2011, 18, 44-55.	1.5	25
143	Non-Overlapping Multi-camera Detection and Tracking of Vehicles in Tunnel Surveillance. , 2011, , .		11
144	Towards a more discriminative and semantic visual vocabulary. Computer Vision and Image Understanding, 2011, 115, 415-425.	3.0	18

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145	Efficient multi-camera detection, tracking, and identification using a shared set of haar-features. , 2011, , .		19
146	Not Far Away from Home: A Relational Distance-Based Approach to Understanding Images of Houses. Lecture Notes in Computer Science, 2011, , 22-29.	1.0	0
147	Unsupervised Object Discovery: A Comparison. International Journal of Computer Vision, 2010, 88, 284-302.	10.9	149
148	Naming persons in news video with label propagation. , 2010, , .		15
149	Dense interest points. , 2010, , .		75
150	Beyond 2D-grids. , 2010, , .		17
151	Kernelized Sorting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1809-1821.	9.7	38
152	Cross-Media Alignment of Names and Faces. IEEE Transactions on Multimedia, 2010, 12, 13-27.	5.2	34
153	Automatic annotation of unique locations from video and text. , 2010, , .		6
154	Using Multi-view Recognition and Meta-data Annotation to Guide a Robot's Attention. International Journal of Robotics Research, 2009, 28, 976-998.	5.8	11
155	Shape-from-recognition: Recognition enables meta-data transfer. Computer Vision and Image Understanding, 2009, 113, 1222-1234.	3.0	17
156	Special issue on 3D representation for object and scene recognition. Computer Vision and Image Understanding, 2009, 113, 1181-1182.	3.0	3
157	Exploring Scale-Induced Feature Hierarchies in Natural Images. , 2009, , .		0
158	Exemplar-based Action Recognition in Video. , 2009, , .		28
159	Class Representative Visual Words for Category-Level Object Recognition. Lecture Notes in Computer Science, 2009, , 184-191.	1.0	1
160	Speeded-Up Robust Features (SURF). Computer Vision and Image Understanding, 2008, 110, 346-359.	3.0	10,820
161	Spatio-temporal features for robust content-based video copy detection. , 2008, , .		24
162	Visual Topological Map Building in Self-similar Environments. , 2008, , 195-205.		7

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163	An Efficient Dense and Scale-Invariant Spatio-Temporal Interest Point Detector. Lecture Notes in Computer Science, 2008, , 650-663.	1.0	508
164	A Thousand Words in a Scene. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1575-1589.	9.7	164
165	Vector Quantizing Feature Space with a Regular Lattice. , 2007, , .		118
166	Depth-From-Recognition: Inferring Meta-data by Cognitive Feedback. , 2007, , .		18
167	Local Invariant Feature Detectors: A Survey. Foundations and Trends in Computer Graphics and Vision, 2007, 3, 177-280.	2.8	999
168	Range determination for mobile robots using an omnidirectional camera. Integrated Computer-Aided Engineering, 2007, 14, 63-72.	2.5	5
169	From omnidirectional images to hierarchical localization. Robotics and Autonomous Systems, 2007, 55, 372-382.	3.0	50
170	Omnidirectional Vision Based Topological Navigation. International Journal of Computer Vision, 2007, 74, 219-236.	10.9	160
171	7 th Dutch-Belgian Information Retrieval Workshop March 28-29, 2007 Katholieke Universiteit Leuven, Belgium. ACM SIGIR Forum, 2007, 41, 121-122.	0.4	0
172	Simultaneous Object Recognition and Segmentation from Single or Multiple Model Views. International Journal of Computer Vision, 2006, 67, 159-188.	10.9	172
173	A Comparison of Affine Region Detectors. International Journal of Computer Vision, 2005, 65, 43-72.	10.9	2,469
174	Modeling scenes with local descriptors and latent aspects. , 2005, , .		259
175	Feature based omnidirectional sparse visual path following. , 2005, , .		47
176	A Shape Based, Viewpoint Invariant Local Descriptor. Lecture Notes in Computer Science, 2005, , 349-359.	1.0	0
177	Simultaneous Object Recognition and Segmentation by Image Exploration. Lecture Notes in Computer Science, 2004, , 40-54.	1.0	112
178	Matching Widely Separated Views Based on Affine Invariant Regions. International Journal of Computer Vision, 2004, 59, 61-85.	10.9	518
179	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
180	Moment invariants for recognition under changing viewpoint and illumination. Computer Vision and Image Understanding, 2004, 94, 3-27.	3.0	198

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181	Noncombinatorial detection of regular repetitions under perspective skew. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 418-432.	9.7	61
182	Dense matching of multiple wide-baseline views. , 2003, , .		94
183	HPAT Indexing for Fast Object/Scene Recognition Based on Local Appearance. , 2003, , 71-80.		63
184	Grouping via the Matching of Repeated Patterns. Lecture Notes in Computer Science, 2001, , 252-261.	1.0	4
185	Local Features for Image Retrieval. Computational Imaging and Vision, 2001, , 21-41.	0.6	12
186	Adventurous Tourism for Couch Potatoes. Lecture Notes in Computer Science, 1999, , 98-107.	1.0	2
187	Content-Based Image Retrieval Based on Local Affinely Invariant Regions. Lecture Notes in Computer Science, 1999, , 493-500.	1.0	119
188	The cascaded Hough transform as support for grouping and finding vanishing points and lines. Lecture Notes in Computer Science, 1997, , 278-289.	1.0	13
189	The cascaded Hough transform. , 0, , .		28
190	The cascaded Hough transform as an aid in aerial image interpretation. , 0, , .		49
191	Real-time affine region tracking and coplanar grouping. , 0, , .		34
192	Efficient grouping under perspective skew. , 0, , .		17
193	Markerless augmented reality with a real-time affine region tracker. , 0, , .		39
194	Modeling shapes and textures from images: new frontiers. , 0, , .		6
195	Wide-baseline multiple-view correspondences. , 0, , .		68
196	Is structure needed for omnidirectional visual homing?. , 0, , .		7
197	Localization with omnidirectional images using the radial trifocal tensor. , 0, , .		12