

Luc Van Gool

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.

172
papers

33,446
citations

56
h-index

181
g-index

181
ext. papers

42,485
ext. citations

5.1
avg, IF

7.61
L-index

#	Paper	IF	Citations
172	Speeded-Up Robust Features (SURF). <i>Computer Vision and Image Understanding</i> , 2008 , 110, 346-359	4.3	7840
171	The Pascal Visual Object Classes (VOC) Challenge. <i>International Journal of Computer Vision</i> , 2010 , 88, 303-338	10.6	7456
170	SURF: Speeded Up Robust Features. <i>Lecture Notes in Computer Science</i> , 2006 , 404-417	0.9	3343
169	The Pascal Visual Object Classes Challenge: A Retrospective. <i>International Journal of Computer Vision</i> , 2015 , 111, 98-136	10.6	2318
168	Temporal Segment Networks: Towards Good Practices for Deep Action Recognition. <i>Lecture Notes in Computer Science</i> , 2016 , 20-36	0.9	809
167	An adaptive color-based particle filter. <i>Image and Vision Computing</i> , 2003 , 21, 99-110	3.7	747
166	Visual Modeling with a Hand-Held Camera. <i>International Journal of Computer Vision</i> , 2004 , 59, 207-232	10.6	524
165	Procedural modeling of buildings. <i>ACM Transactions on Graphics</i> , 2006 , 25, 614-623	7.6	440
164	Matching Widely Separated Views Based on Affine Invariant Regions. <i>International Journal of Computer Vision</i> , 2004 , 59, 61-85	10.6	410
163	Hough forests for object detection, tracking, and action recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 2188-202	13.3	402
162	Domain Adaptive Faster R-CNN for Object Detection in the Wild 2018 ,		364
161	A mobile vision system for robust multi-person tracking 2008 ,		346
160	Self-Calibration and Metric Reconstruction In spite of Varying and Unknown Intrinsic Camera Parameters. <i>International Journal of Computer Vision</i> , 1999 , 32, 7-25	10.6	328
159	Random Forests for Real Time 3D Face Analysis. <i>International Journal of Computer Vision</i> , 2013 , 101, 437-458	10.6	316
158	Depth and Appearance for Mobile Scene Analysis 2007 ,		309
157	Deep Expectation of Real and Apparent Age from a Single Image Without Facial Landmarks. <i>International Journal of Computer Vision</i> , 2018 , 126, 144-157	10.6	277
156	Semantic Foggy Scene Understanding with Synthetic Data. <i>International Journal of Computer Vision</i> , 2018 , 126, 973-992	10.6	240

155	DEX: Deep EXpectation of Apparent Age from a Single Image 2015 ,		236
154	Coupled object detection and tracking from static cameras and moving vehicles. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008 , 30, 1683-98	13.3	233
153	Image-based procedural modeling of facades. <i>ACM Transactions on Graphics</i> , 2007 , 26, 85	7.6	220
152	Robust multiperson tracking from a mobile platform. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009 , 31, 1831-46	13.3	199
151	Face Detection without Bells and Whistles. <i>Lecture Notes in Computer Science</i> , 2014 , 720-735	0.9	171
150	Temporal Segment Networks for Action Recognition in Videos. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 2740-2755	13.3	171
149	Coupled Detection and Trajectory Estimation for Multi-Object Tracking 2007 ,		160
148	Dynamic 3D Scene Analysis from a Moving Vehicle 2007 ,		160
147	Moment invariants for recognition under changing viewpoint and illumination. <i>Computer Vision and Image Understanding</i> , 2004 , 94, 3-27	4.3	160
146	Multi-view traffic sign detection, recognition, and 3D localisation. <i>Machine Vision and Applications</i> , 2014 , 25, 633-647	2.8	150
145	3D Urban Scene Modeling Integrating Recognition and Reconstruction. <i>International Journal of Computer Vision</i> , 2008 , 78, 121-141	10.6	144
144	SEEDS: Superpixels Extracted Via Energy-Driven Sampling. <i>International Journal of Computer Vision</i> , 2015 , 111, 298-314	10.6	138
143	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
142	blue-c. <i>ACM Transactions on Graphics</i> , 2003 , 22, 819-827	7.6	136
141	Omnidirectional Vision Based Topological Navigation. <i>International Journal of Computer Vision</i> , 2007 , 74, 219-236	10.6	135
140	Fast 3D Scanning with Automatic Motion Compensation 2007 ,		134
139	What makes a chair a chair? 2011 ,		125
138	Web-based 3D Reconstruction Service. <i>Machine Vision and Applications</i> , 2006 , 17, 411-426	2.8	121

137	Beyond semi-supervised tracking: Tracking should be as simple as detection, but not simpler than recognition 2009 ,		116
136	SEEDS: Superpixels Extracted via Energy-Driven Sampling. <i>Lecture Notes in Computer Science</i> , 2012 , 13-26.9		110
135	Higher-order structure in regularity detection. <i>Vision Research</i> , 1993 , 33, 1067-88	2.1	106
134	Hough Transform and 3D SURF for Robust Three Dimensional Classification. <i>Lecture Notes in Computer Science</i> , 2010 , 589-602	0.9	103
133	Face recognition based on regularized nearest points between image sets 2013 ,		95
132	Object Detection and Tracking for Autonomous Navigation in Dynamic Environments. <i>International Journal of Robotics Research</i> , 2010 , 29, 1707-1725	5.7	92
131	Object Tracking with an Adaptive Color-Based Particle Filter. <i>Lecture Notes in Computer Science</i> , 2002 , 353-360	0.9	91
130	Content-Based Image Retrieval Based on Local Affinely Invariant Regions. <i>Lecture Notes in Computer Science</i> , 1999 , 493-500	0.9	87
129	Fast scale invariant feature detection and matching on programmable graphics hardware 2008 ,		82
128	Sparse and Noisy LiDAR Completion with RGB Guidance and Uncertainty 2019 ,		81
127	Detection of symmetry in tachistoscopically presented dot patterns: effects of multiple axes and skewing. <i>Perception & Psychophysics</i> , 1991 , 50, 413-27		75
126	Multibody structure-from-motion in practice. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 1134-41	13.3	70
125	The 2005 PASCAL Visual Object Classes Challenge. <i>Lecture Notes in Computer Science</i> , 2006 , 117-176	0.9	70
124	Simultaneous Object Recognition and Segmentation by Image Exploration. <i>Lecture Notes in Computer Science</i> , 2004 , 40-54	0.9	69
123	DeepProposal: Hunting Objects by Cascading Deep Convolutional Layers 2015 ,		65
122	Coupled Action Recognition and Pose Estimation from Multiple Views. <i>International Journal of Computer Vision</i> , 2012 , 100, 16-37	10.6	64
121	Surface construction by a 2-D differentiation-integration process: a neurocomputational model for perceived border ownership, depth, and lightness in Kanizsa figures. <i>Psychological Review</i> , 2010 , 117, 406-39	6.3	63
120	Adaptive and Weighted Collaborative Representations for image classification. <i>Pattern Recognition Letters</i> , 2014 , 43, 127-135	4.7	61

119	In-hand scanning with online loop closure 2009 ,		61
118	Multi-view traffic sign detection, recognition, and 3D localisation 2009 ,		57
117	Multi-Task Learning for Dense Prediction Tasks: A Survey. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	57
116	. <i>IEEE Transactions on Multimedia</i> , 2010 , 12, 591-598	6.6	54
115	3D reconstruction of freely moving persons for re-identification with a depth sensor 2014 ,		53
114	SIFER: Scale-Invariant Feature Detector with Error Resilience. <i>International Journal of Computer Vision</i> , 2013 , 104, 172-197	10.6	52
113	Distinct mechanisms for coding of visual actions in macaque temporal cortex. <i>Journal of Neuroscience</i> , 2011 , 31, 385-401	6.6	52
112	From images to 3D models. <i>Communications of the ACM</i> , 2002 , 45, 50-55	2.5	52
111	2018 ,		52
110	Energy-efficient ConvNets through approximate computing 2016 ,		51
109	End-to-End Learning of Driving Models with Surround-View Cameras and Route Planners. <i>Lecture Notes in Computer Science</i> , 2018 , 449-468	0.9	50
108	One-Shot Person Re-identification with a Consumer Depth Camera 2014 , 161-181		47
107	Ensemble Projection for Semi-supervised Image Classification 2013 ,		45
106	Fast PRISM: Branch and Bound Hough Transform for Object Class Detection. <i>International Journal of Computer Vision</i> , 2011 , 94, 175-197	10.6	45
105	Night-to-Day Image Translation for Retrieval-based Localization 2019 ,		44
104	Orientalional Effects and Component Processes in Symmetry Detection. <i>Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology</i> , 1992 , 44, 475-508		44
103	Color-Based Object Tracking in Multi-camera Environments. <i>Lecture Notes in Computer Science</i> , 2003 , 591-599	0.9	43
102	Some Like It Hot ∇Visual Guidance for Preference Prediction 2016 ,		43

101	Markerless Vision-Based Augmented Reality for Urban Planning. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2014 , 29, 2-17	8.4	42
100	2019 ,		42
99	Optical flow based super-resolution: A probabilistic approach. <i>Computer Vision and Image Understanding</i> , 2007 , 106, 106-115	4.3	41
98	Cascaded Confidence Filtering for Improved Tracking-by-Detection. <i>Lecture Notes in Computer Science</i> , 2010 , 369-382	0.9	41
97	Mining Cross-Image Semantics for Weakly Supervised Semantic Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 347-365	0.9	40
96	Non-maximum Suppression for Object Detection by Passing Messages Between Windows. <i>Lecture Notes in Computer Science</i> , 2015 , 290-306	0.9	39
95	Visual interestingness in image sequences 2013 ,		38
94	Model Adaptation with Synthetic and Real Data for Semantic Dense Foggy Scene Understanding. <i>Lecture Notes in Computer Science</i> , 2018 , 707-724	0.9	38
93	Body Parts Dependent Joint Regressors for Human Pose Estimation in Still Images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2014 , 36, 2131-43	13.3	37
92	Incremental Learning of NCM Forests for Large-Scale Image Classification 2014 ,		37
91	Learning Generative Models for Multi-Activity Body Pose Estimation. <i>International Journal of Computer Vision</i> , 2009 , 83, 121-134	10.6	36
90	Online loop closure for real-time interactive 3D scanning. <i>Computer Vision and Image Understanding</i> , 2011 , 115, 635-648	4.3	35
89	Curriculum Model Adaptation with Synthetic and Real Data for Semantic Foggy Scene Understanding. <i>International Journal of Computer Vision</i> , 2020 , 128, 1182-1204	10.6	35
88	Automatic detection and tracking of pedestrians from a moving stereo rig. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2010 , 65, 523-537	11.8	34
87	Functional categorization of objects using real-time markerless motion capture 2011 ,		33
86	A Three-Layered Approach to Facade Parsing. <i>Lecture Notes in Computer Science</i> , 2012 , 416-429	0.9	30
85	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
84	Superpixel meshes for fast edge-preserving surface reconstruction 2015 ,		29

83	Integrating Object Detection with 3D Tracking Towards a Better Driver Assistance System 2010 ,		29
82	Sparse Representation Based Projections 2011 ,		29
81	Drift detection and removal for sequential structure from motion algorithms. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2004 , 26, 1249-59	13.3	28
80	Transferring Deep Object and Scene Representations for Event Recognition in Still Images. <i>International Journal of Computer Vision</i> , 2018 , 126, 390-409	10.6	27
79	Real time 3D face alignment with Random Forests-based Active Appearance Models 2013 ,		26
78	Accurate and robust registration for in-hand modeling 2008 ,		26
77	ATLAS: A Three-Layered Approach to Facade Parsing. <i>International Journal of Computer Vision</i> , 2016 , 118, 22-48	10.6	26
76	Retina mosaicing using local features. <i>Lecture Notes in Computer Science</i> , 2006 , 9, 185-92	0.9	26
75	Boosting Object Proposals: From Pascal to COCO 2015 ,		25
74	Learning to Predict Sequences of Human Visual Fixations. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 1241-52	10.3	23
73	Structured Output SVM Prediction of Apparent Age, Gender and Smile from Deep Features 2016 ,		23
72	Online Video SEEDS for Temporal Window Objectness 2013 ,		22
71	Robust Low Complexity Corner Detector. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 435-445	6.4	21
70	Gesture Recognition Portfolios for Personalization 2014 ,		20
69	Feature-centric Efficient Subwindow Search 2009 ,		20
68	Video shot characterization. <i>Machine Vision and Applications</i> , 2004 , 15, 172-177	2.8	20
67	Surviving Dominant Planes in Uncalibrated Structure and Motion Recovery. <i>Lecture Notes in Computer Science</i> , 2002 , 837-851	0.9	20
66	Real-Time Body Pose Recognition Using 2D or 3D Haarlets. <i>International Journal of Computer Vision</i> , 2009 , 83, 72-84	10.6	19

65	Unsupervised Semantic Segmentation by Contrasting Object Mask Proposals 2021 ,		19
64	An Introduction to Random Forests for Multi-class Object Detection. <i>Lecture Notes in Computer Science</i> , 2012 , 243-263	0.9	18
63	Grammar-based Encoding of Facades. <i>Computer Graphics Forum</i> , 2010 , 29, 1479-1487	2.4	18
62	A Probabilistic Approach to Large Displacement Optical Flow and Occlusion Detection. <i>Lecture Notes in Computer Science</i> , 2004 , 71-82	0.9	18
61	ACDC: The Adverse Conditions Dataset with Correspondences for Semantic Driving Scene Understanding 2021 ,		18
60	MTI-Net: Multi-scale Task Interaction Networks for Multi-task Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 527-543	0.9	17
59	Don't Forget The Past: Recurrent Depth Estimation from Monocular Video. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 6813-6820	4.2	17
58	ViRoom: Low Cost Synchronized Multicamera System and Its Self-calibration. <i>Lecture Notes in Computer Science</i> , 2002 , 515-522	0.9	17
57	Constant time joint bilateral filtering using joint integral histograms. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 4309-14	8.7	16
56	A Public System for Image Based 3D Model Generation. <i>Lecture Notes in Computer Science</i> , 2011 , 262-273	0.9	16
55	Map-Guided Curriculum Domain Adaptation and Uncertainty-Aware Evaluation for Semantic Nighttime Image Segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , PP,	13.3	15
54	Scale-Aware Alignment of Hierarchical Image Segmentation 2016 ,		15
53	Color-Based Moment Invariants for Viewpoint and Illumination Independent Recognition of Planar Color Patterns 1999 , 113-122		15
52	Iterative Nearest Neighbors. <i>Pattern Recognition</i> , 2015 , 48, 60-72	7.7	14
51	2015 ,		14
50	Multi-view manhole detection, recognition, and 3D localisation 2011 ,		14
49	PRISM: PRincipled Implicit Shape Model 2009 ,		14
48	Efficient edge-aware surface mesh reconstruction for urban scenes. <i>Computer Vision and Image Understanding</i> , 2017 , 157, 3-24	4.3	13

47	Efficient multi-camera detection, tracking, and identification using a shared set of haar-features 2011 ,		13
46	Reconstructing 3D trajectories of independently moving objects using generic constraints. <i>Computer Vision and Image Understanding</i> , 2004 , 96, 453-471	4.3	13
45	Semantic Understanding of Foggy Scenes with Purely Synthetic Data 2019 ,		13
44	Latent Hough Transform for Object Detection. <i>Lecture Notes in Computer Science</i> , 2012 , 312-325	0.9	12
43	DeepProposals: Hunting Objects and Actions by Cascading Deep Convolutional Layers. <i>International Journal of Computer Vision</i> , 2017 , 124, 115-131	10.6	11
42	3D City Modeling Using Cognitive Loops 2006 ,		11
41	Linking depth to lightness and anchoring within the differentiation-integration formalism. <i>Vision Research</i> , 2010 , 50, 1486-500	2.1	10
40	Bayesian Pixel Classification for Human Tracking 2005 ,		10
39	VisDrone-DET2021: The Vision Meets Drone Object detection Challenge Results 2021 ,		10
38	Real-time 3D Traffic Cone Detection for Autonomous Driving 2019 ,		9
37	Motion Control of the CyberCarpet Platform. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 410-427	4.8	9
36	Sparse Quantization for Patch Description 2013 ,		9
35	2007 ,		9
34	Visual modelling: from images to images. <i>Computer Animation and Virtual Worlds</i> , 2002 , 13, 199-209		9
33	Multi-object tracking evaluated on sparse events. <i>Multimedia Tools and Applications</i> , 2010 , 50, 29-47	2.5	8
32	PICASO: Pixel correspondences and SOft match selection for real-time tracking. <i>Computer Vision and Image Understanding</i> , 2016 , 153, 151-162	4.3	7
31	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
30	Evaluation of the effectiveness of HDR tone-mapping operators for photogrammetric applications. <i>Virtual Archaeology Review</i> , 2016 , 7, 54	2.9	7

29	Reparameterizing Convolutions for Incremental Multi-Task Learning Without Task Interference. <i>Lecture Notes in Computer Science</i> , 2020 , 689-707	0.9	7
28	Scale-Aware Domain Adaptive Faster R-CNN. <i>International Journal of Computer Vision</i> , 2021 , 129, 2223-2243	0.9	7
27	Monocular Tracking with a Mixture of View-Dependent Learned Models. <i>Lecture Notes in Computer Science</i> , 2006 , 494-503	0.9	7
26	Integrating Recognition and Reconstruction for Cognitive Traffic Scene Analysis from a Moving Vehicle. <i>Lecture Notes in Computer Science</i> , 2006 , 192-201	0.9	7
25	Size Does Matter: Improving Object Recognition and 3D Reconstruction with Cross-Media Analysis of Image Clusters. <i>Lecture Notes in Computer Science</i> , 2010 , 734-747	0.9	6
24	Simultaneous Object Recognition and Segmentation by Image Exploration. <i>Lecture Notes in Computer Science</i> , 2006 , 145-169	0.9	6
23	DLDR: Deep Linear Discriminative Retrieval for Cultural Event Classification from a Single Image 2015 ,		4
22	Unsupervised Learning of Category-Specific Symmetric 3D Keypoints from Point Sets. <i>Lecture Notes in Computer Science</i> , 2020 , 546-563	0.9	4
21	Virtual Models from Video and Vice-Versa 2001 , 11-22		4
20	AWEAR 2.0 system: Omni-directional audio-visual data acquisition and processing 2009 ,		3
19	Texture Underfitting for Domain Adaptation 2019 ,		3
18	Vi2CLR: Video and Image for Visual Contrastive Learning of Representation 2021 ,		3
17	Branch&Rank for Efficient Object Detection. <i>International Journal of Computer Vision</i> , 2014 , 106, 252-268	0.6	2
16	Hierarchical Co-Segmentation of Building Facades 2014 ,		2
15	(k ²)-means for Fast and Accurate Large Scale Clustering. <i>Lecture Notes in Computer Science</i> , 2017 , 775-791		2
14	Local Context Priors for Object Proposal Generation. <i>Lecture Notes in Computer Science</i> , 2013 , 57-70	0.9	2
13	Real-Time 3D Body Pose Estimation 2009 , 335-361		2
12	Autonomous Mapping of the Priscilla Catacombs 2017 , 75-98		2

11	DLOW: Domain Flow and Applications. <i>International Journal of Computer Vision</i> , 2021 , 129, 2865	10.6	2
10	Monkeys DA Software Architecture for ViRoom LLow-Cost Multicamera System. <i>Lecture Notes in Computer Science</i> , 2003 , 386-395	0.9	2
9	mDALU: Multi-Source Domain Adaptation and Label Unification with Partial Datasets 2021 ,		2
8	AWEAR 2.0 system: Omni-directional audio-visual data acquisition and processing		1
7	Towards Partial Supervision for Generic Object Counting in Natural Scenes. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , PP,	13.3	1
6	Automatic Occlusion Removal from Facades for 3D Urban Reconstruction. <i>Lecture Notes in Computer Science</i> , 2011 , 681-692	0.9	1
5	Fine-Grained Cross-Modal Retrieval for Cultural Items with Focal Attention and Hierarchical Encodings. <i>Computers</i> , 2021 , 10, 105	1.9	1
4	Improving depth estimation using map-based depth priors. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	
3	On-Line Novel View Synthesis Capable of Handling Multiple Moving Objects. <i>Lecture Notes in Computer Science</i> , 2005 , 150-159	0.9	
2	Markov Chain Monte Carlo Cascade for Camera Network Calibration Based on Unconstrained Pedestrian Tracklets. <i>Lecture Notes in Computer Science</i> , 2017 , 400-415	0.9	
1	DIRAC: Detection and Identification of Rare Audio-Visual Events. <i>Studies in Computational Intelligence</i> , 2012 , 3-35	0.8	