

Luc Van Gool

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.

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	Improving depth estimation using map-based depth priors. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	
171	VisDrone-DET2021: The Vision Meets Drone Object detection Challenge Results 2021 ,		10
170	Scale-Aware Domain Adaptive Faster R-CNN. <i>International Journal of Computer Vision</i> , 2021 , 129, 2223-2243	13.3	7
169	Multi-Task Learning for Dense Prediction Tasks: A Survey. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	57
168	Fine-Grained Cross-Modal Retrieval for Cultural Items with Focal Attention and Hierarchical Encodings. <i>Computers</i> , 2021 , 10, 105	1.9	1
167	DLOW: Domain Flow and Applications. <i>International Journal of Computer Vision</i> , 2021 , 129, 2865	10.6	2
166	mDALU: Multi-Source Domain Adaptation and Label Unification with Partial Datasets 2021 ,		2
165	ACDC: The Adverse Conditions Dataset with Correspondences for Semantic Driving Scene Understanding 2021 ,		18
164	Unsupervised Semantic Segmentation by Contrasting Object Mask Proposals 2021 ,		19
163	Vi2CLR: Video and Image for Visual Contrastive Learning of Representation 2021 ,		3
162	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
161	Unsupervised Learning of Category-Specific Symmetric 3D Keypoints from Point Sets. <i>Lecture Notes in Computer Science</i> , 2020 , 546-563	0.9	4
160	MTI-Net: Multi-scale Task Interaction Networks for Multi-task Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 527-543	0.9	17
159	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
158	Mining Cross-Image Semantics for Weakly Supervised Semantic Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 347-365	0.9	40
157	Reparameterizing Convolutions for Incremental Multi-Task Learning Without Task Interference. <i>Lecture Notes in Computer Science</i> , 2020 , 689-707	0.9	7
156	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

155	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
154	Real-time 3D Traffic Cone Detection for Autonomous Driving 2019 ,		9
153	Night-to-Day Image Translation for Retrieval-based Localization 2019 ,		44
152	Texture Underfitting for Domain Adaptation 2019 ,		3
151	2019 ,		42
150	Sparse and Noisy LiDAR Completion with RGB Guidance and Uncertainty 2019 ,		81
149	Semantic Understanding of Foggy Scenes with Purely Synthetic Data 2019 ,		13
148	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
147	Semantic Foggy Scene Understanding with Synthetic Data. <i>International Journal of Computer Vision</i> , 2018 , 126, 973-992	10.6	240
146	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
145	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
144	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
143	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
142	Domain Adaptive Faster R-CNN for Object Detection in the Wild 2018 ,		364
141	2018 ,		52
140	Efficient edge-aware surface mesh reconstruction for urban scenes. <i>Computer Vision and Image Understanding</i> , 2017 , 157, 3-24	4.3	13
139	DeepProposals: Hunting Objects and Actions by Cascading Deep Convolutional Layers. <i>International Journal of Computer Vision</i> , 2017 , 124, 115-131	10.6	11
138	(k^2)-means for Fast and Accurate Large Scale Clustering. <i>Lecture Notes in Computer Science</i> , 2017 , 775-794		2

137	Autonomous Mapping of the Priscilla Catacombs 2017 , 75-98		2
136	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	
135	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
134	Energy-efficient ConvNets through approximate computing 2016 ,		51
133	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
132	Evaluation of the effectiveness of HDR tone-mapping operators for photogrammetric applications. <i>Virtual Archaeology Review</i> , 2016 , 7, 54	2.9	7
131	Some Like It Hot \square Visual Guidance for Preference Prediction 2016 ,		43
130	Structured Output SVM Prediction of Apparent Age, Gender and Smile from Deep Features 2016 ,		23
129	Scale-Aware Alignment of Hierarchical Image Segmentation 2016 ,		15
128	ATLAS: A Three-Layered Approach to Facade Parsing. <i>International Journal of Computer Vision</i> , 2016 , 118, 22-48	10.6	26
127	Temporal Segment Networks: Towards Good Practices for Deep Action Recognition. <i>Lecture Notes in Computer Science</i> , 2016 , 20-36	0.9	809
126	The Pascal Visual Object Classes Challenge: A Retrospective. <i>International Journal of Computer Vision</i> , 2015 , 111, 98-136	10.6	2318
125	SEEDS: Superpixels Extracted Via Energy-Driven Sampling. <i>International Journal of Computer Vision</i> , 2015 , 111, 298-314	10.6	138
124	Iterative Nearest Neighbors. <i>Pattern Recognition</i> , 2015 , 48, 60-72	7.7	14
123	Boosting Object Proposals: From Pascal to COCO 2015 ,		25
122	DEX: Deep EXpectation of Apparent Age from a Single Image 2015 ,		236
121	DLDR: Deep Linear Discriminative Retrieval for Cultural Event Classification from a Single Image 2015 ,		4
120	DeepProposal: Hunting Objects by Cascading Deep Convolutional Layers 2015 ,		65

119	2015,		14
118	Supapixel meshes for fast edge-preserving surface reconstruction 2015,		29
117	Non-maximum Suppression for Object Detection by Passing Messages Between Windows. <i>Lecture Notes in Computer Science</i> , 2015 , 290-306	0.9	39
116	Branch&Rank for Efficient Object Detection. <i>International Journal of Computer Vision</i> , 2014 , 106, 252-268	0.6	2
115	Markerless Vision-Based Augmented Reality for Urban Planning. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2014 , 29, 2-17	8.4	42
114	Gesture Recognition Portfolios for Personalization 2014,		20
113	Hierarchical Co-Segmentation of Building Facades 2014,		2
112	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
111	Face Detection without Bells and Whistles. <i>Lecture Notes in Computer Science</i> , 2014 , 720-735	0.9	171
110	One-Shot Person Re-identification with a Consumer Depth Camera 2014, 161-181		47
109	Incremental Learning of NCM Forests for Large-Scale Image Classification 2014,		37
108	3D reconstruction of freely moving persons for re-identification with a depth sensor 2014,		53
107	Adaptive and Weighted Collaborative Representations for image classification. <i>Pattern Recognition Letters</i> , 2014 , 43, 127-135	4.7	61
106	Multi-view traffic sign detection, recognition, and 3D localisation. <i>Machine Vision and Applications</i> , 2014 , 25, 633-647	2.8	150
105	SIFER: Scale-Invariant Feature Detector with Error Resilience. <i>International Journal of Computer Vision</i> , 2013 , 104, 172-197	10.6	52
104	Random Forests for Real Time 3D Face Analysis. <i>International Journal of Computer Vision</i> , 2013 , 101, 437-458	1.58	316
103	Online Video SEEDS for Temporal Window Objectness 2013,		22
102	Real time 3D face alignment with Random Forests-based Active Appearance Models 2013,		26

101	Motion Control of the CyberCarpet Platform. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 410-427	4.8	9
100	Sparse Quantization for Patch Description 2013 ,		9
99	Visual interestingness in image sequences 2013 ,		38
98	Face recognition based on regularized nearest points between image sets 2013 ,		95
97	Ensemble Projection for Semi-supervised Image Classification 2013 ,		45
96	Local Context Priors for Object Proposal Generation. <i>Lecture Notes in Computer Science</i> , 2013 , 57-70	0.9	2
95	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
94	Constant time joint bilateral filtering using joint integral histograms. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 4309-14	8.7	16
93	An Introduction to Random Forests for Multi-class Object Detection. <i>Lecture Notes in Computer Science</i> , 2012 , 243-263	0.9	18
92	Coupled Action Recognition and Pose Estimation from Multiple Views. <i>International Journal of Computer Vision</i> , 2012 , 100, 16-37	10.6	64
91	Latent Hough Transform for Object Detection. <i>Lecture Notes in Computer Science</i> , 2012 , 312-325	0.9	12
90	SEEDS: Superpixels Extracted via Energy-Driven Sampling. <i>Lecture Notes in Computer Science</i> , 2012 , 13-26.	9	110
89	A Three-Layered Approach to Facade Parsing. <i>Lecture Notes in Computer Science</i> , 2012 , 416-429	0.9	30
88	DIRAC: Detection and Identification of Rare Audio-Visual Events. <i>Studies in Computational Intelligence</i> , 2012 , 3-35	0.8	
87	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
86	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
85	What makes a chair a chair? 2011 ,		125
84	Robust Low Complexity Corner Detector. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 435-445	6.4	21

83	Online loop closure for real-time interactive 3D scanning. <i>Computer Vision and Image Understanding</i> , 2011 , 115, 635-648	4.3	35
82	Efficient multi-camera detection, tracking, and identification using a shared set of haar-features 2011 ,		13
81	Multi-view manhole detection, recognition, and 3D localisation 2011 ,		14
80	Functional categorization of objects using real-time markerless motion capture 2011 ,		33
79	Distinct mechanisms for coding of visual actions in macaque temporal cortex. <i>Journal of Neuroscience</i> , 2011 , 31, 385-401	6.6	52
78	Sparse Representation Based Projections 2011 ,		29
77	A Public System for Image Based 3D Model Generation. <i>Lecture Notes in Computer Science</i> , 2011 , 262-273.	3.9	16
76	Automatic Occlusion Removal from Facades for 3D Urban Reconstruction. <i>Lecture Notes in Computer Science</i> , 2011 , 681-692	0.9	1
75	Grammar-based Encoding of Facades. <i>Computer Graphics Forum</i> , 2010 , 29, 1479-1487	2.4	18
74	Integrating Object Detection with 3D Tracking Towards a Better Driver Assistance System 2010 ,		29
73	Object Detection and Tracking for Autonomous Navigation in Dynamic Environments. <i>International Journal of Robotics Research</i> , 2010 , 29, 1707-1725	5.7	92
72	. <i>IEEE Transactions on Multimedia</i> , 2010 , 12, 591-598	6.6	54
71	Hough Transform and 3D SURF for Robust Three Dimensional Classification. <i>Lecture Notes in Computer Science</i> , 2010 , 589-602	0.9	103
70	Multibody structure-from-motion in practice. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 1134-41	13.3	70
69	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
68	Multi-object tracking evaluated on sparse events. <i>Multimedia Tools and Applications</i> , 2010 , 50, 29-47	2.5	8
67	The Pascal Visual Object Classes (VOC) Challenge. <i>International Journal of Computer Vision</i> , 2010 , 88, 303-338	10.6	7456
66	Linking depth to lightness and anchoring within the differentiation-integration formalism. <i>Vision Research</i> , 2010 , 50, 1486-500	2.1	10

65	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
64	Cascaded Confidence Filtering for Improved Tracking-by-Detection. <i>Lecture Notes in Computer Science</i> , 2010 , 369-382	0.9	41
63	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
62	Feature-centric Efficient Subwindow Search 2009 ,		20
61	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
60	Learning Generative Models for Multi-Activity Body Pose Estimation. <i>International Journal of Computer Vision</i> , 2009 , 83, 121-134	10.6	36
59	Real-Time Body Pose Recognition Using 2D or 3D Haarlets. <i>International Journal of Computer Vision</i> , 2009 , 83, 72-84	10.6	19
58	In-hand scanning with online loop closure 2009 ,		61
57	Multi-view traffic sign detection, recognition, and 3D localisation 2009 ,		57
56	AWEAR 2.0 system: Omni-directional audio-visual data acquisition and processing 2009 ,		3
55	Robust multiperson tracking from a mobile platform. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009 , 31, 1831-46	13.3	199
54	Beyond semi-supervised tracking: Tracking should be as simple as detection, but not simpler than recognition 2009 ,		116
53	PRISM: PRincipled Implicit Shape Model 2009 ,		14
52	Real-Time 3D Body Pose Estimation 2009 , 335-361		2
51	A mobile vision system for robust multi-person tracking 2008 ,		346
50	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
49	Fast scale invariant feature detection and matching on programmable graphics hardware 2008 ,		82
48	Accurate and robust registration for in-hand modeling 2008 ,		26

47	Speeded-Up Robust Features (SURF). <i>Computer Vision and Image Understanding</i> , 2008 , 110, 346-359	4.3	7840
46	3D Urban Scene Modeling Integrating Recognition and Reconstruction. <i>International Journal of Computer Vision</i> , 2008 , 78, 121-141	10.6	144
45	Coupled Detection and Trajectory Estimation for Multi-Object Tracking 2007 ,		160
44	Optical flow based super-resolution: A probabilistic approach. <i>Computer Vision and Image Understanding</i> , 2007 , 106, 106-115	4.3	41
43	Omnidirectional Vision Based Topological Navigation. <i>International Journal of Computer Vision</i> , 2007 , 74, 219-236	10.6	135
42	2007 ,		9
41	Image-based procedural modeling of facades. <i>ACM Transactions on Graphics</i> , 2007 , 26, 85	7.6	220
40	Depth and Appearance for Mobile Scene Analysis 2007 ,		309
39	Fast 3D Scanning with Automatic Motion Compensation 2007 ,		134
38	Dynamic 3D Scene Analysis from a Moving Vehicle 2007 ,		160
37	Procedural modeling of buildings. <i>ACM Transactions on Graphics</i> , 2006 , 25, 614-623	7.6	440
36	3D City Modeling Using Cognitive Loops 2006 ,		11
35	SURF: Speeded Up Robust Features. <i>Lecture Notes in Computer Science</i> , 2006 , 404-417	0.9	3343
34	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
33	Web-based 3D Reconstruction Service. <i>Machine Vision and Applications</i> , 2006 , 17, 411-426	2.8	121
32	The 2005 PASCAL Visual Object Classes Challenge. <i>Lecture Notes in Computer Science</i> , 2006 , 117-176	0.9	70
31	Monocular Tracking with a Mixture of View-Dependent Learned Models. <i>Lecture Notes in Computer Science</i> , 2006 , 494-503	0.9	7
30	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

29	Retina mosaicing using local features. <i>Lecture Notes in Computer Science</i> , 2006 , 9, 185-92	0.9	26
28	Simultaneous Object Recognition and Segmentation by Image Exploration. <i>Lecture Notes in Computer Science</i> , 2006 , 145-169	0.9	6
27	Bayesian Pixel Classification for Human Tracking 2005 ,		10
26	On-Line Novel View Synthesis Capable of Handling Multiple Moving Objects. <i>Lecture Notes in Computer Science</i> , 2005 , 150-159	0.9	
25	Simultaneous Object Recognition and Segmentation by Image Exploration. <i>Lecture Notes in Computer Science</i> , 2004 , 40-54	0.9	69
24	A Probabilistic Approach to Large Displacement Optical Flow and Occlusion Detection. <i>Lecture Notes in Computer Science</i> , 2004 , 71-82	0.9	18
23	Matching Widely Separated Views Based on Affine Invariant Regions. <i>International Journal of Computer Vision</i> , 2004 , 59, 61-85	10.6	410
22	Visual Modeling with a Hand-Held Camera. <i>International Journal of Computer Vision</i> , 2004 , 59, 207-232	10.6	524
21	Video shot characterization. <i>Machine Vision and Applications</i> , 2004 , 15, 172-177	2.8	20
20	Moment invariants for recognition under changing viewpoint and illumination. <i>Computer Vision and Image Understanding</i> , 2004 , 94, 3-27	4.3	160
19	Reconstructing 3D trajectories of independently moving objects using generic constraints. <i>Computer Vision and Image Understanding</i> , 2004 , 96, 453-471	4.3	13
18	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
17	blue-c. <i>ACM Transactions on Graphics</i> , 2003 , 22, 819-827	7.6	136
16	An adaptive color-based particle filter. <i>Image and Vision Computing</i> , 2003 , 21, 99-110	3.7	747
15	Color-Based Object Tracking in Multi-camera Environments. <i>Lecture Notes in Computer Science</i> , 2003 , 591-599	0.9	43
14	Monkeys I A Software Architecture for ViRoom I Low-Cost Multicamera System. <i>Lecture Notes in Computer Science</i> , 2003 , 386-395	0.9	2
13	Object Tracking with an Adaptive Color-Based Particle Filter. <i>Lecture Notes in Computer Science</i> , 2002 , 353-360	0.9	91
12	Visual modelling: from images to images. <i>Computer Animation and Virtual Worlds</i> , 2002 , 13, 199-209		9

11	From images to 3D models. <i>Communications of the ACM</i> , 2002 , 45, 50-55	2.5	52
10	ViRoom: A Low Cost Synchronized Multicamera System and Its Self-calibration. <i>Lecture Notes in Computer Science</i> , 2002 , 515-522	0.9	17
9	Surviving Dominant Planes in Uncalibrated Structure and Motion Recovery. <i>Lecture Notes in Computer Science</i> , 2002 , 837-851	0.9	20
8	Virtual Models from Video and Vice-Versa 2001 , 11-22		4
7	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
6	Content-Based Image Retrieval Based on Local Affinely Invariant Regions. <i>Lecture Notes in Computer Science</i> , 1999 , 493-500	0.9	87
5	Color-Based Moment Invariants for Viewpoint and Illumination Independent Recognition of Planar Color Patterns 1999 , 113-122		15
4	Higher-order structure in regularity detection. <i>Vision Research</i> , 1993 , 33, 1067-88	2.1	106
3	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
2	Detection of symmetry in tachistoscopically presented dot patterns: effects of multiple axes and skewing. <i>Perception & Psychophysics</i> , 1991 , 50, 413-27		75
1	AWEAR 2.0 system: Omni-directional audio-visual data acquisition and processing		1