

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.

100
papers

5,931
citations

30
h-index

76
g-index

111
ext. papers

8,484
ext. citations

5.5
avg, IF

6.5
L-index

#	Paper	IF	Citations
100	The Pascal Visual Object Classes Challenge: A Retrospective. <i>International Journal of Computer Vision</i> , 2015 , 111, 98-136	10.6	2318
99	Random Forests for Real Time 3D Face Analysis. <i>International Journal of Computer Vision</i> , 2013 , 101, 437-458	10.6	316
98	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
97	Seven Ways to Improve Example-Based Single Image Super Resolution 2016 ,		208
96	UntrimmedNets for Weakly Supervised Action Recognition and Detection 2017 ,		202
95	Conditional Probability Models for Deep Image Compression 2018 ,		157
94	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
93	Fast 3D Scanning with Automatic Motion Compensation 2007 ,		134
92	SwinIR: Image Restoration Using Swin Transformer 2021 ,		130
91	Deep Unfolding Network for Image Super-Resolution 2020 ,		115
90	What's going on? Discovering spatio-temporal dependencies in dynamic scenes 2010 ,		108
89	Real-time face pose estimation from single range images 2008 ,		107
88	Probabilistic Regression for Visual Tracking 2020 ,		107
87	NTIRE 2018 Challenge on Single Image Super-Resolution: Methods and Results 2018 ,		99
86	Sparse and Noisy LiDAR Completion with RGB Guidance and Uncertainty 2019 ,		81
85	WESPE: Weakly Supervised Photo Enhancer for Digital Cameras 2018 ,		73
84	Real-time 3D hand gesture interaction with a robot for understanding directions from humans 2011 ,		72

83	Coupled Action Recognition and Pose Estimation from Multiple Views. <i>International Journal of Computer Vision</i> , 2012 , 100, 16-37	10.6	64
82	Covariance Pooling for Facial Expression Recognition 2018 ,		60
81	Dense 3D Regression for Hand Pose Estimation 2018 ,		59
80	NTIRE 2018 Challenge on Image Dehazing: Methods and Results 2018 ,		55
79	Convolutional Oriented Boundaries. <i>Lecture Notes in Computer Science</i> , 2016 , 580-596	0.9	48
78	Thin-Slicing Network: A Deep Structured Model for Pose Estimation in Videos 2017 ,		47
77	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
76	Night-to-Day Image Translation for Retrieval-based Localization 2019 ,		44
75	Markerless Vision-Based Augmented Reality for Urban Planning. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2014 , 29, 2-17	8.4	42
74	Group Sparsity: The Hinge Between Filter Pruning and Decomposition for Network Compression 2020 ,		36
73	Designing a Practical Degradation Model for Deep Blind Image Super-Resolution 2021 ,		36
72	Learning Where to Classify in Multi-view Semantic Segmentation. <i>Lecture Notes in Computer Science</i> , 2014 , 516-532	0.9	33
71	WILDTRACK: A Multi-camera HD Dataset for Dense Unscripted Pedestrian Detection 2018 ,		31
70	Aerial object tracking from an airborne platform 2014 ,		29
69	stagNet: An Attentive Semantic RNN for Group Activity and Individual Action Recognition. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 549-565	6.4	28
68	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
67	Real time 3D face alignment with Random Forests-based Active Appearance Models 2013 ,		26
66	PIRM Challenge on Perceptual Image Enhancement on Smartphones: Report. <i>Lecture Notes in Computer Science</i> , 2019 , 315-333	0.9	25

65	Boosting Object Proposals: From Pascal to COCO 2015 ,		25
64	Learning for Video Compression With Hierarchical Quality and Recurrent Enhancement 2020 ,		24
63	PathTrack: Fast Trajectory Annotation with Path Supervision 2017 ,		22
62	A distributed camera system for multi-resolution surveillance 2009 ,		20
61	Real-Time Body Pose Recognition Using 2D or 3D Haarlets. <i>International Journal of Computer Vision</i> , 2009 , 83, 72-84	10.6	19
60	Flow-based Kernel Prior with Application to Blind Super-Resolution 2021 ,		19
59	Failure Prediction for Autonomous Driving 2018 ,		18
58	Deep Burst Super-Resolution 2021 ,		17
57	Learning Unsupervised Hierarchical Part Decomposition of 3D Objects From a Single RGB Image 2020 ,		17
56	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
55	Weakly Supervised 3D Object Detection from Lidar Point Cloud. <i>Lecture Notes in Computer Science</i> , 2020 , 515-531	0.9	16
54	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
53	Multi-view manhole detection, recognition, and 3D localisation 2011 ,		14
52	3D from Line Segments in Two Poorly-Textured, Uncalibrated Images 2006 ,		14
51	Differentiable Multi-Granularity Human Representation Learning for Instance-Aware Human Semantic Parsing 2021 ,		14
50	Adversarial Binary Coding for Efficient Person Re-Identification 2019 ,		13
49	Robust Aerial Object Tracking from an Airborne platform. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2016 , 31, 38-46	2.4	13
48	Semantic Understanding of Foggy Scenes with Purely Synthetic Data 2019 ,		13

47	Mutual Affine Network for Spatially Variant Kernel Estimation in Blind Image Super-Resolution 2021,			13
46	Efficient regression priors for reducing image compression artifacts 2015,			11
45	Learning Accurate Dense Correspondences and When to Trust Them 2021,			11
44	Towards Good Practice for CNN-Based Monocular Depth Estimation 2020,			10
43	Is There a Procedural Logic to Architecture? 2013,			10
42	Real time 3D head pose estimation: Recent achievements and future challenges 2012,			10
41	Joint Tracking and Ground Plane Estimation. <i>IEEE Signal Processing Letters</i> , 2016 , 23, 1514-1517	3.2		10
40	Fast Perceptual Image Enhancement. <i>Lecture Notes in Computer Science</i> , 2019 , 260-275	0.9		9
39	Ground Plane Estimation Using a Hidden Markov Model 2014,			9
38	Sparse Quantization for Patch Description 2013,			9
37	Learned Dynamic Guidance for Depth Image Reconstruction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 ,	13.3		8
36	Multi-object tracking evaluated on sparse events. <i>Multimedia Tools and Applications</i> , 2010 , 50, 29-47	2.5		8
35	Depth Estimation from Monocular Images and Sparse Radar Data 2020,			8
34	Semantic Object Prediction and Spatial Sound Super-Resolution with Binaural Sounds. <i>Lecture Notes in Computer Science</i> , 2020 , 638-655	0.9		8
33	Learning for Video Compression With Recurrent Auto-Encoder and Recurrent Probability Model. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2021 , 15, 388-401	7.5		8
32	Hierarchical Attention and Context Modeling for Group Activity Recognition 2018,			8
31	Learnable Online Graph Representations for 3D Multi-Object Tracking. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2		7
30	Customized Multi-person Tracker. <i>Lecture Notes in Computer Science</i> , 2019 , 612-628	0.9		6

29	Efficient Video Semantic Segmentation with Labels Propagation and Refinement 2020 ,		6
28	DeFlow: Learning Complex Image Degradations from Unpaired Data with Conditional Flows 2021 ,		5
27	Improving Point Cloud Semantic Segmentation by Learning 3D Object Detection 2021 ,		5
26	Efficient regression priors for post-processing demosaiced images 2015 ,		4
25	Cluster, Split, Fuse, and Update: Meta-Learning for Open Compound Domain Adaptive Semantic Segmentation 2021 ,		4
24	Hierarchical Conditional Flow: A Unified Framework for Image Super-Resolution and Image Rescaling 2021 ,		4
23	AWEAR 2.0 system: Omni-directional audio-visual data acquisition and processing 2009 ,		3
22	Action Sequence Predictions of Vehicles in Urban Environments using Map and Social Context 2020 ,		3
21	Texture Underfitting for Domain Adaptation 2019 ,		3
20	Consensus Maximization for Semantic Region Correspondences 2018 ,		3
19	Leveraging observation uncertainty for robust visual tracking. <i>Computer Vision and Image Understanding</i> , 2017 , 158, 62-71	4.3	2
18	Branch&Rank for Efficient Object Detection. <i>International Journal of Computer Vision</i> , 2014 , 106, 252-268	0.6	2
17	VarCity - the video 2017 ,		2
16	Efficient Model-Free Anthropometry from Depth Data 2017 ,		2
15	End-to-End Optimization of LiDAR Beam Configuration for 3D Object Detection and Localization. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 2242-2249	4.2	2
14	Efficient Conditional GAN Transfer with Knowledge Propagation across Classes 2021 ,		2
13	The Heterogeneity Hypothesis: Finding Layer-Wise Differentiated Network Architectures 2021 ,		2
12	Geometrically Mappable Image Features. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 2062-2069	4.2	1

11	Reconstruction of Inextensible Surfaces on a Budget via Bootstrapping 2014 ,		1
10	Improved person detection in industrial environments using multiple self-calibrated cameras 2011 ,		1
9	Understanding Bird-Eye View of Road Semantics Using an Onboard Camera. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 3302-3309	4.2	1
8	AWEAR 2.0 system: Omni-directional audio-visual data acquisition and processing		1
7	A Real-Time Online Learning Framework for Joint 3D Reconstruction and Semantic Segmentation of Indoor Scenes. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 1332-1339	4.2	1
6	Learning from Simulation, Racing in Reality 2021 ,		1
5	Fast Few-Shot Classification by Few-Iteration Meta-Learning 2021 ,		1
4	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
3	Outdoor Plant Segmentation With Deep Learning for High-Throughput Field Phenotyping on a Diverse Wheat Dataset.. <i>Frontiers in Plant Science</i> , 2021 , 12, 774068	6.2	1
2	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 4321-4328	4.2	0
1	Improving depth estimation using map-based depth priors. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	