

Anton van den Hengel

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	7,078 citations	44 h-index	80 g-index
185 ext. papers	9,375 ext. citations	5.9 avg, IF	6.63 L-index

#	Paper	IF	Citations
172	Image-Based Recommendations on Styles and Substitutes 2015 ,		597
171	A survey of appearance models in visual object tracking. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2013 , 4, 1-48	8	374
170	Wider or Deeper: Revisiting the ResNet Model for Visual Recognition. <i>Pattern Recognition</i> , 2019 , 90, 119-133	7.7	353
169	Memorizing Normality to Detect Anomaly: Memory-Augmented Deep Autoencoder for Unsupervised Anomaly Detection 2019 ,		250
168	Learning to rank in person re-identification with metric ensembles 2015 ,		249
167	Fast Supervised Hashing with Decision Trees for High-Dimensional Data 2014 ,		219
166	What Value Do Explicit High Level Concepts Have in Vision to Language Problems? 2016 ,		194
165	Is face recognition really a Compressive Sensing problem? 2011 ,		170
164	Vision-and-Language Navigation: Interpreting Visually-Grounded Navigation Instructions in Real Environments 2018 ,		170
163	Inductive Hashing on Manifolds 2013 ,		149
162	Image Captioning and Visual Question Answering Based on Attributes and External Knowledge. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 1367-1381	13.3	147
161	REFUGE Challenge: A unified framework for evaluating automated methods for glaucoma assessment from fundus photographs. <i>Medical Image Analysis</i> , 2020 , 59, 101570	15.4	147
160	Deep linear discriminant analysis on fisher networks: A hybrid architecture for person re-identification. <i>Pattern Recognition</i> , 2017 , 65, 238-250	7.7	132
159	Part-Based Visual Tracking with Online Latent Structural Learning 2013 ,		132
158	From Motion Blur to Motion Flow: A Deep Learning Solution for Removing Heterogeneous Motion Blur 2017 ,		129
157	Ask Me Anything: Free-Form Visual Question Answering Based on Knowledge from External Sources 2016 ,		126
156	Graph-Structured Representations for Visual Question Answering 2017 ,		125

155	Hashing on nonlinear manifolds. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 1839-51	8.7	109
154	Visual question answering: A survey of methods and datasets. <i>Computer Vision and Image Understanding</i> , 2017 , 163, 21-40	4.3	108
153	A General Two-Step Approach to Learning-Based Hashing 2013 ,		101
152	FVQA: Fact-based Visual Question Answering. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 2413-2427	13.3	97
151	Tips and Tricks for Visual Question Answering: Learnings from the 2017 Challenge 2018 ,		91
150	The treasure beneath convolutional layers: Cross-convolutional-layer pooling for image classification 2015 ,		86
149	Semantic Labeling of Aerial and Satellite Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 2868-2881	4.7	82
148	VideoTrace. <i>ACM Transactions on Graphics</i> , 2007 , 26, 86	7.6	81
147	Strengthening the Effectiveness of Pedestrian Detection with Spatially Pooled Features. <i>Lecture Notes in Computer Science</i> , 2014 , 546-561	0.9	78
146	Pedestrian Detection with Spatially Pooled Features and Structured Ensemble Learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2016 , 38, 1243-57	13.3	76
145	Incremental learning of 3D-DCT compact representations for robust visual tracking. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 863-81	13.3	73
144	Less is More: Zero-Shot Learning from Online Textual Documents with Noise Suppression 2016 ,		67
143	Supervised hashing using graph cuts and boosted decision trees. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 2317-31	13.3	63
142	Fast Detection of Multiple Objects in Traffic Scenes With a Common Detection Framework. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 1002-1014	6.1	61
141	Characterness: an indicator of text in the wild. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 1666-77	8.7	60
140	Thrift: Local 3D Structure Recognition 2007 ,		58
139	An Embarrassingly Simple Approach to Visual Domain Adaptation. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 3403-3417	8.7	57
138	Efficient computation of robust weighted low-rank matrix approximations using the L1 norm. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 1681-90	13.3	57

137	Attention-Guided Network for Ghost-Free High Dynamic Range Imaging 2019 ,		56
136	Deep Anomaly Detection with Deviation Networks 2019 ,		55
135	Cluster Sparsity Field: An Internal Hyperspectral Imagery Prior for Reconstruction. <i>International Journal of Computer Vision</i> , 2018 , 126, 797-821	10.6	53
134	Visual tracking with spatio-temporal Dempster-Shafer information fusion. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 3028-40	8.7	51
133	Learning Compact Binary Codes for Visual Tracking 2013 ,		51
132	Fast global kernel density mode seeking: applications to localization and tracking. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 1457-69	8.7	50
131	Exploring Context with Deep Structured Models for Semantic Segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 1352-1366	13.3	45
130	Mid-level deep pattern mining 2015 ,		45
129	Cross-Convolutional-Layer Pooling for Image Recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 2305-2313	13.3	44
128	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 1358-1368	6.4	43
127	When Unsupervised Domain Adaptation Meets Tensor Representations 2017 ,		39
126	Multi-attention Network for One Shot Learning 2017 ,		37
125	2020 ,		37
124	Learning discriminative trajectorylet detector sets for accurate skeleton-based action recognition. <i>Pattern Recognition</i> , 2017 , 66, 202-212	7.7	36
123	Compositional Model Based Fisher Vector Coding for Image Classification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 2335-2348	13.3	35
122	Efficient computation of robust low-rank matrix approximations in the presence of missing data using the L1 norm 2010 ,		35
121	Rationalising the Renormalisation Method of Kanatani. <i>Journal of Mathematical Imaging and Vision</i> , 2001 , 14, 21-38	1.6	35
120	Explicit Knowledge-based Reasoning for Visual Question Answering 2017 ,		35

119	Dictionary Learning for Promoting Structured Sparsity in Hyperspectral Compressive Sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 7223-7235	8.1	35
118	Guaranteed Ellipse Fitting with a Confidence Region and an Uncertainty Measure for Centre, Axes, and Orientation. <i>Journal of Mathematical Imaging and Vision</i> , 2015 , 52, 173-199	1.6	31
117	Efficient dual approach to distance metric learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 394-406	10.3	30
116	The VQA-Machine: Learning How to Use Existing Vision Algorithms to Answer New Questions 2017 ,		30
115	Unsupervised Domain Adaptation Using Robust Class-Wise Matching. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 1339-1349	6.4	29
114	Graph mode-based contextual kernels for robust SVM tracking 2011 ,		28
113	From FNS to HEIV: a link between two vision parameter estimation methods. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2004 , 26, 264-8	13.3	28
112	VideoTrace 2007 ,		27
111	Mining Mid-level Visual Patterns with Deep CNN Activations. <i>International Journal of Computer Vision</i> , 2017 , 121, 344-364	10.6	26
110	Pairwise Matching through Max-Weight Bipartite Belief Propagation 2016 ,		22
109	Training Effective Node Classifiers for Cascade Classification. <i>International Journal of Computer Vision</i> , 2013 , 103, 326-347	10.6	22
108	Large-Scale Binary Quadratic Optimization Using Semidefinite Relaxation and Applications. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 470-485	13.3	21
107	Approximate least trimmed sum of squares fitting and applications in image analysis. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 1836-47	8.7	21
106	. <i>IEEE Distributed Systems Online</i> , 2008 , 9, 1-1		21
105	A new constrained parameter estimator for computer vision applications. <i>Image and Vision Computing</i> , 2004 , 22, 85-91	3.7	21
104	Learning Deep Gradient Descent Optimization for Image Deconvolution. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 5468-5482	10.3	20
103	Effectiveness of a Batteryless and Wireless Wearable Sensor System for Identifying Bed and Chair Exits in Healthy Older People. <i>Sensors</i> , 2016 , 16,	3.8	20
102	. <i>IEEE Transactions on Multimedia</i> , 2013 , 15, 1174-1183	6.6	19

101	Bilinear Programming for Human Activity Recognition with Unknown MRF Graphs 2013 ,		19
100	Topology Estimation for Thousand-Camera Surveillance Networks 2007 ,		19
99	REVERIE: Remote Embodied Visual Referring Expression in Real Indoor Environments 2020 ,		19
98	. <i>IEEE Signal Processing Magazine</i> , 2017 , 34, 63-75	9.4	18
97	Learning graph structure for multi-label image classification via clique generation 2015 ,		18
96	In situ image-based modeling 2009 ,		18
95	Measuring Latency for Video Surveillance Systems 2009 ,		18
94	FNS, CFNS and HEIV: A Unifying Approach. <i>Journal of Mathematical Imaging and Vision</i> , 2005 , 23, 175-183.	1.6	18
93	A Fast Semidefinite Approach to Solving Binary Quadratic Problems 2013 ,		17
92	Scaling CNNs for High Resolution Volumetric Reconstruction from a Single Image 2017 ,		17
91	Depth and surface normal estimation from monocular images using regression on deep features and hierarchical CRFs 2015 ,		17
90	Interactive modelling for AR applications 2010 ,		17
89	Robust Tracking with Weighted Online Structured Learning. <i>Lecture Notes in Computer Science</i> , 2012 , 158-172	0.9	17
88	Guaranteed Ellipse Fitting with the Sampson Distance. <i>Lecture Notes in Computer Science</i> , 2012 , 87-100	0.9	17
87	Infinite Variational Autoencoder for Semi-Supervised Learning 2017 ,		16
86	Activity Topology Estimation for Large Networks of Cameras 2006 ,		16
85	Counterfactual Vision and Language Learning 2020 ,		16
84	Adaptive Importance Learning for Improving Lightweight Image Super-Resolution Network. <i>International Journal of Computer Vision</i> , 2020 , 128, 479-499	10.6	15

83	Image Co-localization by Mimicking a Good Detector's Confidence Score Distribution. <i>Lecture Notes in Computer Science</i> , 2016 , 19-34	0.9	14
82	On the General Value of Evidence, and Bilingual Scene-Text Visual Question Answering 2020 ,		14
81	Multi-way backpropagation for training compact deep neural networks. <i>Neural Networks</i> , 2020 , 126, 250-261	9.1	13
80	Towards Effective Deep Embedding for Zero-Shot Learning. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 2843-2852	6.4	13
79	Fast approximate . <i>Computational Statistics and Data Analysis</i> , 2014 , 77, 25-37	1.6	13
78	Self-Paced Kernel Estimation for Robust Blind Image Deblurring 2017 ,		13
77	Learning What Makes a Difference from Counterfactual Examples and Gradient Supervision. <i>Lecture Notes in Computer Science</i> , 2020 , 580-599	0.9	13
76	Automatic camera placement for large scale surveillance networks 2009 ,		12
75	Online unsupervised feature learning for visual tracking. <i>Image and Vision Computing</i> , 2016 , 51, 84-94	3.7	11
74	Sampson distance based joint estimation of multiple homographies with uncalibrated cameras. <i>Computer Vision and Image Understanding</i> , 2014 , 125, 200-213	4.3	11
73	Non-sparse linear representations for visual tracking with online reservoir metric learning 2012 ,		11
72	How Might Autonomous Vehicles Impact the City? The Case of Commuting to Central Adelaide. <i>Urban Policy and Research</i> , 2019 , 37, 442-457	1.6	10
71	A scalable stagewise approach to large-margin multiclass loss-based boosting. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 1002-13	10.3	10
70	StructBoost: Boosting Methods for Predicting Structured Output Variables. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2014 , 36, 2089-103	13.3	10
69	Leveraging surrounding context for scene text detection 2013 ,		10
68	Middleware for video surveillance networks 2006 ,		10
67	Cluster Sparsity Field for Hyperspectral Imagery Denoising. <i>Lecture Notes in Computer Science</i> , 2016 , 631-647	0.9	10
66	MPTV: Matching Pursuit-Based Total Variation Minimization for Image Deconvolution. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 1851-1865	8.7	10

65	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 1235-1248	6.4	9
64	Sequential Person Recognition in Photo Albums with a Recurrent Network 2017 ,		9
63	Estimating camera overlap in large and growing networks 2008 ,		9
62	Finding Camera Overlap in Large Surveillance Networks. <i>Lecture Notes in Computer Science</i> , 2007 , 375-384	8.9	9
61	High-throughput 3D modelling to dissect the genetic control of leaf elongation in barley (<i>Hordeum vulgare</i>). <i>Plant Journal</i> , 2019 , 98, 555-570	6.9	9
60	Robust multiple homography estimation: An ill-solved problem 2015 ,		8
59	Empirical evaluation of the exclusion approach to estimating camera overlap 2008 ,		8
58	Visual Question Answering as a Meta Learning Task. <i>Lecture Notes in Computer Science</i> , 2018 , 229-245	0.9	8
57	A hierarchical model for recognizing alarming states in a batteryless sensor alarm intervention for preventing falls in older people. <i>Pervasive and Mobile Computing</i> , 2017 , 40, 1-16	3.5	7
56	Structured learning of metric ensembles with application to person re-identification. <i>Computer Vision and Image Understanding</i> , 2017 , 156, 51-65	4.3	7
55	Multiple Homography Estimation with Full Consistency Constraints 2010 ,		7
54	Goal-Oriented Visual Question Generation via Intermediate Rewards. <i>Lecture Notes in Computer Science</i> , 2018 , 189-204	0.9	7
53	Worst case linear discriminant analysis as scalable semidefinite feasibility problems. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 2382-92	8.7	6
52	RandomBoost: simplified multiclass boosting through randomization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 764-79	10.3	6
51	A Comparison of Ellipse Fitting Methods and Implications for Multiple-View Geometry Estimation 2012 ,		6
50	Scalable Surveillance Software Architecture 2006 ,		6
49	Reinforcement Learning with Attention that Works: A Self-Supervised Approach. <i>Communications in Computer and Information Science</i> , 2019 , 223-230	0.3	6
48	. <i>IEEE Transactions on Multimedia</i> , 2021 , 23, 2481-2492	6.6	6

47	On the Dimension of the Set of Two-View Multi-Homography Matrices. <i>Complex Analysis and Operator Theory</i> , 2013 , 7, 465-484	0.7	5
46	Efficient SDP inference for fully-connected CRFs based on low-rank decomposition 2015 ,		5
45	Part-based modelling of compound scenes from images 2015 ,		5
44	A dimensionality result for multiple homography matrices 2011 ,		5
43	Sharing features in multi-class boosting via group sparsity 2012 ,		5
42	Object-and-Action Aware Model for Visual Language Navigation. <i>Lecture Notes in Computer Science</i> , 2020 , 303-317	0.9	5
41	A Model-Based Approach to Recovering the Structure of a Plant from Images. <i>Lecture Notes in Computer Science</i> , 2015 , 215-230	0.9	5
40	Learning to Zoom-In via Learning to Zoom-Out: Real-World Super-Resolution by Generating and Adapting Degradation. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 2947-2962	8.7	5
39	Enforcing consistency constraints in uncalibrated multiple homography estimation using latent variables. <i>Machine Vision and Applications</i> , 2015 , 26, 401-422	2.8	4
38	Fully corrective boosting with arbitrary loss and regularization. <i>Neural Networks</i> , 2013 , 48, 44-58	9.1	4
37	A Study of the Region Covariance Descriptor: Impact of Feature Selection and Image Transformations 2015 ,		4
36	Extended depth-of-field via focus stacking and graph cuts 2013 ,		4
35	Optimization on the manifold of multiple homographies 2009 ,		4
34	Accurate Tensor Completion via Adaptive Low-Rank Representation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 4170-4184	10.3	4
33	Scripted Video Generation With a Bottom-Up Generative Adversarial Network. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 7454-7467	8.7	4
32	Actively Seeking and Learning From Live Data 2019 ,		4
31	What's to Know? Uncertainty as a Guide to Asking Goal-Oriented Questions 2019 ,		4
30	Spatially aware feature selection and weighting for object retrieval. <i>Image and Vision Computing</i> , 2013 , 31, 935-948	3.7	3

29	Tracking hand-off in large surveillance networks 2009 ,		3
28	Determining the Translational Speed of a Camera from Time-Varying Optical Flow. <i>Lecture Notes in Computer Science</i> , 2007 , 190-197	0.9	3
27	2019 ,		3
26	Medical Data Inquiry Using a Question Answering Model 2020 ,		2
25	Efficient Semidefinite Branch-and-Cut for MAP-MRF Inference. <i>International Journal of Computer Vision</i> , 2016 , 117, 269-289	10.6	2
24	. <i>IEEE Transactions on Multimedia</i> , 2014 , 16, 1254-1267	6.6	2
23	A framework for determining overlap in large scale networks 2009 ,		2
22	Multi-projective Parameter Estimation for Sets of Homogeneous Matrices 2009 ,		2
21	Surprisal-aware scheduling of PTZ cameras 2009 ,		2
20	Is covariance information useful in estimating vision parameters? 2000 , 4309, 195		2
19	Using Digital Visualization of Archival Sources to Enhance Archaeological Interpretation of the Life History of Ships: The Case Study of HMCS/HMAS Protector. <i>Coastal Research Library</i> , 2019 , 89-101	0.4	2
18	Large-Scale Camera Topology Mapping: Application to Re-identification 2014 , 391-411		2
17	Camera Network Topology Estimation by Lighting Variation 2015 ,		1
16	A Hybrid Loss for Multiclass and Structured Prediction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 2-12	13.3	1
15	Image Retrieval with a Visual Thesaurus 2010 ,		1
14	Image-Based Modelling for Augmenting Reality 2010 ,		1
13	Contradiction and Correlation for Camera Overlap Estimation 2009 ,		1
12	Dual-Attention-Guided Network for Ghost-Free High Dynamic Range Imaging. <i>International Journal of Computer Vision</i> , 1	10.6	1

11	Generalised Principal Component Analysis: Exploiting Inherent Parameter Constraints. <i>Communications in Computer and Information Science</i> , 2007 , 217-228	0.3	1
10	Video Super-Resolution via Mixed Spatial-Temporal Convolution and Selective Fusion. <i>Pattern Recognition</i> , 2022 , 126, 108577	7.7	0
9	An Adaptive Bayesian Technique for Tracking Multiple Objects. <i>Lecture Notes in Computer Science</i> , 2007 , 657-665	0.9	0
8	GADE: A Generative Adversarial Approach to Density Estimation and its Applications. <i>International Journal of Computer Vision</i> , 2020 , 128, 2731-2743	10.6	0
7	Accurate imagery recovery using a multi-observation patch model. <i>Information Sciences</i> , 2019 , 501, 724-741	7.4	1
6	Toward a Digital Ecosystem: International Symposium on Ubiquitous Virtual Reality 2010. <i>IEEE Pervasive Computing</i> , 2011 , 10, 90-93	1.3	
5	Image based modelling with VideoTrace. <i>Computer Graphics</i> , 2008 , 42, 1-8		
4	Large-Scale Camera Network Topology Estimation by Lighting Variation. <i>Lecture Notes in Computer Science</i> , 2017 , 455-467	0.9	
3	Distributed Camera Overlap Estimation Enabling Large Scale Surveillance. <i>Studies in Computational Intelligence</i> , 2011 , 147-182	0.8	
2	Fast Training of Effective Multi-class Boosting Using Coordinate Descent Optimization. <i>Lecture Notes in Computer Science</i> , 2013 , 782-795	0.9	
1	. <i>IEEE Transactions on Multimedia</i> , 2021 , 1-1	6.6	