

Anton van den Hengel

List of Publications by Year in descending order

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185
papers

12,100
citations

109264

35
h-index

85498

71
g-index

185
all docs

185
docs citations

185
times ranked

8415
citing authors

#	ARTICLE	IF	CITATIONS
1	Show, Price and Negotiate: A Negotiator With Online Value Look-Ahead. IEEE Transactions on Multimedia, 2022, 24, 1426-1434.	5.2	1
2	Dual-Attention-Guided Network for Ghost-Free High Dynamic Range Imaging. International Journal of Computer Vision, 2022, 130, 76-94.	10.9	17
3	Video super-resolution via mixed spatial-temporal convolution and selective fusion. Pattern Recognition, 2022, 126, 108577.	5.1	8
4	ForeSI: Success-Aware Visual Navigation Agent. , 2022, , .		3
5	CNN Attention Guidance for Improved Orthopedics Radiographic Fracture Classification. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3139-3150.	3.9	4
6	Learning to Zoom-In via Learning to Zoom-Out: Real-World Super-Resolution by Generating and Adapting Degradation. IEEE Transactions on Image Processing, 2021, 30, 2947-2962.	6.0	19
7	Deep Single Image Deraining via Modeling Haze-Like Effect. IEEE Transactions on Multimedia, 2021, 23, 2481-2492.	5.2	12
8	Human-AI Interactive and Continuous Sensemaking: A Case Study of Image Classification using Scribble Attention Maps. , 2021, , .		6
9	The Road to Know-Where: An Object-and-Room Informed Sequential BERT for Indoor Vision-Language Navigation. , 2021, , .		30
10	REFUGE Challenge: A unified framework for evaluating automated methods for glaucoma assessment from fundus photographs. Medical Image Analysis, 2020, 59, 101570.	7.0	354
11	Adaptive Importance Learning for Improving Lightweight Image Super-Resolution Network. International Journal of Computer Vision, 2020, 128, 479-499.	10.9	22
12	Accurate Tensor Completion via Adaptive Low-Rank Representation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4170-4184.	7.2	14
13	Scripted Video Generation With a Bottom-Up Generative Adversarial Network. IEEE Transactions on Image Processing, 2020, 29, 7454-7467.	6.0	16
14	GADE: A Generative Adversarial Approach to Density Estimation and its Applications. International Journal of Computer Vision, 2020, 128, 2731-2743.	10.9	1
15	Self-Trained Deep Ordinal Regression for End-to-End Video Anomaly Detection. , 2020, , .		117
16	Gold Seeker: Information Gain From Policy Distributions for Goal-Oriented Vision-and-Language Reasoning. , 2020, , .		3
17	REVERIE: Remote Embodied Visual Referring Expression in Real Indoor Environments. , 2020, , .		100
18	Counterfactual Vision and Language Learning. , 2020, , .		62

#	ARTICLE	IF	CITATIONS
19	On the General Value of Evidence, and Bilingual Scene-Text Visual Question Answering. , 2020, , .		42
20	Medical Data Inquiry Using a Question Answering Model. , 2020, , .		5
21	Multi-way backpropagation for training compact deep neural networks. <i>Neural Networks</i> , 2020, 126, 250-261.	3.3	21
22	Learning Deep Gradient Descent Optimization for Image Deconvolution. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 5468-5482.	7.2	57
23	Towards Effective Deep Embedding for Zero-Shot Learning. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020, 30, 2843-2852.	5.6	42
24	Object-and-Action Aware Model for Visual Language Navigation. <i>Lecture Notes in Computer Science</i> , 2020, , 303-317.	1.0	29
25	Learning What Makes a Difference from Counterfactual Examples and Gradient Supervision. <i>Lecture Notes in Computer Science</i> , 2020, , 580-599.	1.0	37
26	Unsupervised Domain Adaptation Using Robust Class-Wise Matching. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019, 29, 1339-1349.	5.6	46
27	Deep Anomaly Detection with Deviation Networks. , 2019, , .		172
28	How Might Autonomous Vehicles Impact the City? The Case of Commuting to Central Adelaide. <i>Urban Policy and Research</i> , 2019, 37, 442-457.	0.8	20
29	Accurate imagery recovery using a multi-observation patch model. <i>Information Sciences</i> , 2019, 501, 724-741.	4.0	0
30	Attention-Guided Network for Ghost-Free High Dynamic Range Imaging. , 2019, , .		143
31	Actively Seeking and Learning From Live Data. , 2019, , .		8
32	Memorizing Normality to Detect Anomaly: Memory-Augmented Deep Autoencoder for Unsupervised Anomaly Detection. , 2019, , .		736
33	What's to Know? Uncertainty as a Guide to Asking Goal-Oriented Questions. , 2019, , .		6
34	A Generative Adversarial Density Estimator. , 2019, , .		6
35	Watch, Reason and Code. , 2019, , .		1
36	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.	2.8	20

#	ARTICLE	IF	CITATIONS
37	Wider or Deeper: Revisiting the ResNet Model for Visual Recognition. Pattern Recognition, 2019, 90, 119-133.	5.1	835
38	MPTV: Matching Pursuit-Based Total Variation Minimization for Image Deconvolution. IEEE Transactions on Image Processing, 2019, 28, 1851-1865.	6.0	17
39	Reinforcement Learning with Attention that Works: A Self-Supervised Approach. Communications in Computer and Information Science, 2019, , 223-230.	0.4	25
40	Using Digital Visualization of Archival Sources to Enhance Archaeological Interpretation of the "Life History" of Ships: The Case Study of HMCS/HMAS Protector. Coastal Research Library, 2019, , 89-101.	0.2	2
41	FVQA: Fact-Based Visual Question Answering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2413-2427.	9.7	227
42	Cluster Sparsity Field: An Internal Hyperspectral Imagery Prior for Reconstruction. International Journal of Computer Vision, 2018, 126, 797-821.	10.9	63
43	An Embarrassingly Simple Approach to Visual Domain Adaptation. IEEE Transactions on Image Processing, 2018, 27, 3403-3417.	6.0	78
44	Pushing the Limits of Deep CNNs for Pedestrian Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1358-1368.	5.6	58
45	Image Captioning and Visual Question Answering Based on Attributes and External Knowledge. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1367-1381.	9.7	256
46	Exploring Context with Deep Structured Models for Semantic Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1352-1366.	9.7	64
47	Discriminative Clustering of High-Dimensional Data Using Generative Modeling. , 2018, , .		0
48	Vision-and-Language Navigation: Interpreting Visually-Grounded Navigation Instructions in Real Environments. , 2018, , .		416
49	Tips and Tricks for Visual Question Answering: Learnings from the 2017 Challenge. , 2018, , .		201
50	Goal-Oriented Visual Question Generation via Intermediate Rewards. Lecture Notes in Computer Science, 2018, , 189-204.	1.0	17
51	Visual Question Answering as a Meta Learning Task. Lecture Notes in Computer Science, 2018, , 229-245.	1.0	17
52	Large-Scale Binary Quadratic Optimization Using Semidefinite Relaxation and Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 470-485.	9.7	36
53	Part-Based Robust Tracking Using Online Latent Structured Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1235-1248.	5.6	16
54	Learning discriminative trajectorylet detector sets for accurate skeleton-based action recognition. Pattern Recognition, 2017, 66, 202-212.	5.1	45

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55	Compositional Model Based Fisher Vector Coding for Image Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 2335-2348.	9.7	48
56	A hierarchical model for recognizing alarming states in a batteryless sensor alarm intervention for preventing falls in older people. Pervasive and Mobile Computing, 2017, 40, 1-16.	2.1	10
57	Visual question answering: A survey of methods and datasets. Computer Vision and Image Understanding, 2017, 163, 21-40.	3.0	199
58	Deep linear discriminant analysis on fisher networks: A hybrid architecture for person re-identification. Pattern Recognition, 2017, 65, 238-250.	5.1	159
59	Cross-Convolutional-Layer Pooling for Image Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 2305-2313.	9.7	63
60	<i>JFR</i> Special Issue on Agricultural Robotics. Journal of Field Robotics, 2017, 34, 1037-1038.	3.2	3
61	Structured learning of metric ensembles with application to person re-identification. Computer Vision and Image Understanding, 2017, 156, 51-65.	3.0	8
62	Mining Mid-level Visual Patterns with Deep CNN Activations. International Journal of Computer Vision, 2017, 121, 344-364.	10.9	36
63	Visual Question Answering: A Tutorial. IEEE Signal Processing Magazine, 2017, 34, 63-75.	4.6	28
64	Sequential Person Recognition in Photo Albums with a Recurrent Network. , 2017, , .		14
65	Graph-Structured Representations for Visual Question Answering. , 2017, , .		237
66	From Motion Blur to Motion Flow: A Deep Learning Solution for Removing Heterogeneous Motion Blur. , 2017, , .		246
67	The VQA-Machine: Learning How to Use Existing Vision Algorithms to Answer New Questions. , 2017, , .		50
68	When Unsupervised Domain Adaptation Meets Tensor Representations. , 2017, , .		50
69	Multi-attention Network for One Shot Learning. , 2017, , .		56
70	Self-Paced Kernel Estimation for Robust Blind Image Deblurring. , 2017, , .		17
71	Scaling CNNs for High Resolution Volumetric Reconstruction from a Single Image. , 2017, , .		26
72	Infinite Variational Autoencoder for Semi-Supervised Learning. , 2017, , .		29

#	ARTICLE	IF	CITATIONS
73	Explicit Knowledge-based Reasoning for Visual Question Answering. , 2017, , .		80
74	Large-Scale Camera Network Topology Estimation by Lighting Variation. Lecture Notes in Computer Science, 2017, , 455-467.	1.0	0
75	Effectiveness of a Batteryless and Wireless Wearable Sensor System for Identifying Bed and Chair Exits in Healthy Older People. Sensors, 2016, 16, 546.	2.1	24
76	What Value Do Explicit High Level Concepts Have in Vision to Language Problems?. , 2016, , .		286
77	Less is More: Zero-Shot Learning from Online Textual Documents with Noise Suppression. , 2016, , .		106
78	Ask Me Anything: Free-Form Visual Question Answering Based on Knowledge from External Sources. , 2016, , .		190
79	Dictionary Learning for Promoting Structured Sparsity in Hyperspectral Compressive Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7223-7235.	2.7	47
80	Semantic Labeling of Aerial and Satellite Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2868-2881.	2.3	104
81	Proximal Riemannian Pursuit for Large-Scale Trace-Norm Minimization. , 2016, , .		0
82	Pairwise Matching through Max-Weight Bipartite Belief Propagation. , 2016, , .		30
83	Online unsupervised feature learning for visual tracking. Image and Vision Computing, 2016, 51, 84-94.	2.7	11
84	Fast Detection of Multiple Objects in Traffic Scenes With a Common Detection Framework. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1002-1014.	4.7	98
85	Pedestrian Detection with Spatially Pooled Features and Structured Ensemble Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1243-1257.	9.7	94
86	Efficient Semidefinite Branch-and-Cut for MAP-MRF Inference. International Journal of Computer Vision, 2016, 117, 269-289.	10.9	2
87	Cluster Sparsity Field for Hyperspectral Imagery Denoising. Lecture Notes in Computer Science, 2016, , 631-647.	1.0	10
88	Image Co-localization by Mimicking a Good Detector's Confidence Score Distribution. Lecture Notes in Computer Science, 2016, , 19-34.	1.0	20
89	The treasure beneath convolutional layers: Cross-convolutional-layer pooling for image classification. , 2015, , .		109
90	Efficient SDP inference for fully-connected CRFs based on low-rank decomposition. , 2015, , .		6

#	ARTICLE	IF	CITATIONS
91	Learning graph structure for multi-label image classification via clique generation. , 2015, , .		28
92	Part-based modelling of compound scenes from images. , 2015, , .		10
93	Robust multiple homography estimation: An ill-solved problem. , 2015, , .		10
94	Learning to rank in person re-identification with metric ensembles. , 2015, , .		305
95	Depth and surface normal estimation from monocular images using regression on deep features and hierarchical CRFs. , 2015, , .		83
96	Mid-level deep pattern mining. , 2015, , .		53
97	Camera Network Topology Estimation by Lighting Variation. , 2015, , .		1
98	A Study of the Region Covariance Descriptor: Impact of Feature Selection and Image Transformations. , 2015, , .		5
99	A Hybrid Loss for Multiclass and Structured Prediction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2-12.	9.7	2
100	Guaranteed Ellipse Fitting with a Confidence Region and an Uncertainty Measure for Centre, Axes, and Orientation. Journal of Mathematical Imaging and Vision, 2015, 52, 173-199.	0.8	40
101	Supervised Hashing Using Graph Cuts and Boosted Decision Trees. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2317-2331.	9.7	78
102	Enforcing consistency constraints in uncalibrated multiple homography estimation using latent variables. Machine Vision and Applications, 2015, 26, 401-422.	1.7	6
103	Worst Case Linear Discriminant Analysis as Scalable Semidefinite Feasibility Problems. IEEE Transactions on Image Processing, 2015, 24, 2382-2392.	6.0	7
104	Hashing on Nonlinear Manifolds. IEEE Transactions on Image Processing, 2015, 24, 1839-1851.	6.0	120
105	Image-Based Recommendations on Styles and Substitutes. , 2015, , .		1,144
106	A Model-Based Approach to Recovering the Structure of a Plant from Images. Lecture Notes in Computer Science, 2015, , 215-230.	1.0	7
107	Fast Supervised Hashing with Decision Trees for High-Dimensional Data. , 2014, , .		292
108	Sampson distance based joint estimation of multiple homographies with uncalibrated cameras. Computer Vision and Image Understanding, 2014, 125, 200-213.	3.0	18

#	ARTICLE	IF	CITATIONS
109	Characterness: An Indicator of Text in the Wild. IEEE Transactions on Image Processing, 2014, 23, 1666-1677.	6.0	73
110	A relaxation method to articulated trajectory reconstruction from monocular image sequence. , 2014, , .		0
111	A Scalable Stagewise Approach to Large-Margin Multiclass Loss-Based Boosting. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1002-1013.	7.2	12
112	StructBoost: Boosting Methods for Predicting Structured Output Variables. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 2089-2103.	9.7	10
113	Asymmetric Pruning for Learning Cascade Detectors. IEEE Transactions on Multimedia, 2014, 16, 1254-1267.	5.2	5
114	Efficient Dual Approach to Distance Metric Learning. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 394-406.	7.2	32
115	Fast approximate ℓ_1 minimization: Speeding up robust regression. Computational Statistics and Data Analysis, 2014, 77, 25-37.	11.7	13
116	RandomBoost: Simplified Multiclass Boosting Through Randomization. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 764-779.	7.2	7
117	Strengthening the Effectiveness of Pedestrian Detection with Spatially Pooled Features. Lecture Notes in Computer Science, 2014, , 546-561.	1.0	108
118	Large-Scale Camera Topology Mapping: Application to Re-identification. , 2014, , 391-411.		2
119	On the Dimension of the Set of Two-View Multi-Homography Matrices. Complex Analysis and Operator Theory, 2013, 7, 465-484.	0.3	5
120	Fully corrective boosting with arbitrary loss and regularization. Neural Networks, 2013, 48, 44-58.	3.3	6
121	Spatially aware feature selection and weighting for object retrieval. Image and Vision Computing, 2013, 31, 935-948.	2.7	4
122	Approximate Least Trimmed Sum of Squares Fitting and Applications in Image Analysis. IEEE Transactions on Image Processing, 2013, 22, 1836-1847.	6.0	24
123	A Fast Semidefinite Approach to Solving Binary Quadratic Problems. , 2013, , .		21
124	Visual Tracking With Spatio-Temporal Dempster-Shafer Information Fusion. IEEE Transactions on Image Processing, 2013, 22, 3028-3040.	6.0	78
125	Training Effective Node Classifiers for Cascade Classification. International Journal of Computer Vision, 2013, 103, 326-347.	10.9	27
126	A survey of appearance models in visual object tracking. ACM Transactions on Intelligent Systems and Technology, 2013, 4, 1-48.	2.9	505

#	ARTICLE	IF	CITATIONS
127	Incremental Learning of 3D-DCT Compact Representations for Robust Visual Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 863-881.	9.7	82
128	Shape Similarity Analysis by Self-Tuning Locally Constrained Mixed-Diffusion. IEEE Transactions on Multimedia, 2013, 15, 1174-1183.	5.2	20
129	Extended depth-of-field via focus stacking and graph cuts. , 2013, , .		8
130	Learning Compact Binary Codes for Visual Tracking. , 2013, , .		64
131	Inductive Hashing on Manifolds. , 2013, , .		183
132	Approximate constraint generation for efficient structured boosting. , 2013, , .		0
133	Leveraging surrounding context for scene text detection. , 2013, , .		16
134	A General Two-Step Approach to Learning-Based Hashing. , 2013, , .		136
135	Bilinear Programming for Human Activity Recognition with Unknown MRF Graphs. , 2013, , .		30
136	Part-Based Visual Tracking with Online Latent Structural Learning. , 2013, , .		169
137	Fast Training of Effective Multi-class Boosting Using Coordinate Descent Optimization. Lecture Notes in Computer Science, 2013, , 782-795.	1.0	0
138	Sharing features in multi-class boosting via group sparsity. , 2012, , .		6
139	A Comparison of Ellipse Fitting Methods and Implications for Multiple-View Geometry Estimation. , 2012, , .		6
140	Non-sparse linear representations for visual tracking with online reservoir metric learning. , 2012, , .		19
141	Efficient Computation of Robust Weighted Low-Rank Matrix Approximations Using the L ₁ Norm. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1681-1690.	9.7	95
142	Robust Tracking with Weighted Online Structured Learning. Lecture Notes in Computer Science, 2012, , 158-172.	1.0	28
143	Guaranteed Ellipse Fitting with the Sampson Distance. Lecture Notes in Computer Science, 2012, , 87-100.	1.0	32
144	A dimensionality result for multiple homography matrices. , 2011, , .		5

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145	Graph mode-based contextual kernels for robust SVM tracking. , 2011, , .		31
146	Is face recognition really a Compressive Sensing problem?. , 2011, , .		213
147	Toward a Digital Ecosystem: International Symposium on Ubiquitous Virtual Reality 2010. IEEE Pervasive Computing, 2011, 10, 90-93.	1.1	1
148	Distributed Camera Overlap Estimation “ Enabling Large Scale Surveillance. Studies in Computational Intelligence, 2011, , 147-182.	0.7	0
149	Interactive modelling for AR applications. , 2010, , .		21
150	Image Retrieval with a Visual Thesaurus. , 2010, , .		2
151	Efficient computation of robust low-rank matrix approximations in the presence of missing data using the $L_{1/2}$ norm. , 2010, , .		74
152	Multiple Homography Estimation with Full Consistency Constraints. , 2010, , .		8
153	Image-Based Modelling for Augmenting Reality. , 2010, , .		2
154	A framework for determining overlap in large scale networks. , 2009, , .		2
155	Optimization on the manifold of multiple homographies. , 2009, , .		5
156	Multi-projective Parameter Estimation for Sets of Homogeneous Matrices. , 2009, , .		2
157	Contradiction and Correlation for Camera Overlap Estimation. , 2009, , .		1
158	Tracking hand-off in large surveillance networks. , 2009, , .		10
159	In situ image-based modeling. , 2009, , .		27
160	Measuring Latency for Video Surveillance Systems. , 2009, , .		26
161	Surprisal-aware scheduling of PTZ cameras. , 2009, , .		2
162	Automatic camera placement for large scale surveillance networks. , 2009, , .		15

#	ARTICLE	IF	CITATIONS
163	Middleware for Distributed Video Surveillance. IEEE Distributed Systems Online, 2008, 9, 1-1.	0.5	28
164	Empirical evaluation of the exclusion approach to estimating camera overlap. , 2008, , .		8
165	Estimating camera overlap in large and growing networks. , 2008, , .		9
166	Searching in space and time: a system for forensic analysis of large video repositories. , 2008, , .		1
167	Image based modelling with VideoTrace. Computer Graphics, 2008, 42, 1-8.	0.1	0
168	VideoTrace. ACM Transactions on Graphics, 2007, 26, 86.	4.9	89
169	VideoTrace. , 2007, , .		58
170	RATSAC: An Adaptive Method for Accelerated Robust Estimation and its Application to Video Synchronisation. , 2007, , .		1
171	Fast Global Kernel Density Mode Seeking: Applications to Localization and Tracking. IEEE Transactions on Image Processing, 2007, 16, 1457-1469.	6.0	62
172	Topology Estimation for Thousand-Camera Surveillance Networks. , 2007, , .		25
173	Thrift: Local 3D Structure Recognition. , 2007, , .		82
174	Determining the Translational Speed of a Camera from Time-Varying Optical Flow. Lecture Notes in Computer Science, 2007, , 190-197.	1.0	4
175	Generalised Principal Component Analysis: Exploiting Inherent Parameter Constraints. Communications in Computer and Information Science, 2007, , 217-228.	0.4	2
176	Finding Camera Overlap in Large Surveillance Networks. Lecture Notes in Computer Science, 2007, , 375-384.	1.0	13
177	An Adaptive Bayesian Technique for Tracking Multiple Objects. Lecture Notes in Computer Science, 2007, , 657-665.	1.0	3
178	Middleware for video surveillance networks. , 2006, , .		15
179	Activity Topology Estimation for Large Networks of Cameras. , 2006, , .		22
180	Scalable Surveillance Software Architecture. , 2006, , .		11

#	ARTICLE	IF	CITATIONS
181	FNS, CFNS and HEIV: A Unifying Approach. <i>Journal of Mathematical Imaging and Vision</i> , 2005, 23, 175-183.	0.8	27
182	A new constrained parameter estimator for computer vision applications. <i>Image and Vision Computing</i> , 2004, 22, 85-91.	2.7	31
183	From fns to heiv: a link between two vision parameter estimation methods. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2004, 26, 264-268.	9.7	32
184	Rationalising the Renormalisation Method of Kanatani. <i>Journal of Mathematical Imaging and Vision</i> , 2001, 14, 21-38.	0.8	44
185	<title>Is covariance information useful in estimating vision parameters?</title>. , 2000, 4309, 195.		2