

# Narendra Ahuja

## List of Publications by Year in descending order

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98  
papers

5,688  
citations

172386

29  
h-index

155592

55  
g-index

100  
all docs

100  
docs citations

100  
times ranked

4076  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracking Persons-of-Interest via Unsupervised Representation Adaptation. International Journal of Computer Vision, 2020, 128, 96-120.	10.9	15
2	Low-level multiscale image segmentation and a benchmark for its evaluation. Computer Vision and Image Understanding, 2020, 199, 103026.	3.0	4
3	Joint Image Filtering with Deep Convolutional Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1909-1923.	9.7	91
4	Clustering as physically inspired energy minimization. Pattern Recognition, 2019, 86, 265-280.	5.1	1
5	Joint Estimation of Human Pose and Conversational Groups from Social Scenes. International Journal of Computer Vision, 2018, 126, 410-429.	10.9	22
6	Deep Laplacian Pyramid Networks for Fast and Accurate Super-Resolution. , 2017, , .		1,643
7	Robust Visual Tracking Using Oblique Random Forests. , 2017, , .		53
8	Deep Joint Image Filtering. Lecture Notes in Computer Science, 2016, , 154-169.	1.0	124
9	Robust Visual Tracking via Exclusive Context Modeling. IEEE Transactions on Cybernetics, 2016, 46, 51-63.	6.2	48
10	Uncovering Interactions and Interactors: Joint Estimation of Head, Body Orientation and F-Formations from Surveillance Videos. , 2015, , .		35
11	On the Equivalence of Moving Entrance Pupil and Radial Distortion for Camera Calibration. , 2015, , .		7
12	Structural Sparse Tracking. , 2015, , .		124
13	Learning ramp transformation for single image super-resolution. Computer Vision and Image Understanding, 2015, 135, 109-125.	3.0	3
14	Constant Time Median and Bilateral Filtering. International Journal of Computer Vision, 2015, 112, 307-318.	10.9	52
15	Robust Visual Tracking Via Consistent Low-Rank Sparse Learning. International Journal of Computer Vision, 2015, 111, 171-190.	10.9	274
16	Generalized Radial Alignment Constraint for Camera Calibration. , 2014, , .		3
17	Generalized Pupil-centric Imaging and Analytical Calibration for a Non-frontal Camera. , 2014, , .		7
18	Improving head and body pose estimation through semi-supervised manifold alignment. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
19	Automatic segmentation of granular objects in images: Combining local density clustering and gradient-barrier watershed. <i>Pattern Recognition</i> , 2014, 47, 2266-2279.	5.1	94
20	Low-Level Hierarchical Multiscale Segmentation Statistics of Natural Images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2014, 36, 1900-1906.	9.7	6
21	Partial Occlusion Handling for Visual Tracking via Robust Part Matching. , 2014, , .		85
22	Non-frontal Camera Calibration Using Focal Stack Imagery. , 2014, , .		0
23	Occlusion Detection via Structured Sparse Learning for Robust Object Tracking. <i>Advances in Computer Vision and Pattern Recognition</i> , 2014, , 93-112.	0.9	0
24	Automated Visual Inspection of Railroad Tracks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013, 14, 751-760.	4.7	115
25	Modeling dynamic swarms. <i>Computer Vision and Image Understanding</i> , 2013, 117, 1-11.	3.0	2
26	Object Tracking by Occlusion Detection via Structured Sparse Learning. , 2013, , .		21
27	Single image super-resolution using adaptive domain transformation. , 2013, , .		7
28	On stochastic gradient descent and quadratic mutual information for image registration. , 2013, , .		1
29	A generative focus measure with application to omnifocus imaging. , 2013, , .		10
30	Low-Rank Sparse Coding for Image Classification. , 2013, , .		98
31	Robust Visual Tracking via Structured Multi-Task Sparse Learning. <i>International Journal of Computer Vision</i> , 2013, 101, 367-383.	10.9	451
32	Fusion of Median and Bilateral Filtering for Range Image Upsampling. <i>IEEE Transactions on Image Processing</i> , 2013, 22, 4841-4852.	6.0	68
33	Evaluation of Aggregate Size and Shape by Means of Segmentation Techniques and Aggregate Image Processing Algorithms. <i>Transportation Research Record</i> , 2013, 2335, 50-59.	1.0	64
34	Robust multi-object tracking via cross-domain contextual information for sports video analysis. , 2012, , .		31
35	Shadow Removal Using Bilateral Filtering. <i>IEEE Transactions on Image Processing</i> , 2012, 21, 4361-4368.	6.0	101
36	Exploiting nonlocal spatiotemporal structure for video segmentation. , 2012, , .		24

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37	Aperture access and manipulation for computational imaging. Computer Vision and Image Understanding, 2012, 116, 222-237.	3.0	1
38	Low-Rank Sparse Learning for Robust Visual Tracking. Lecture Notes in Computer Science, 2012, , 470-484.	1.0	151
39	Dinkelbach NCUT: An Efficient Framework for Solving Normalized Cuts Problems with Priors and Convex Constraints. International Journal of Computer Vision, 2010, 89, 40-55.	10.9	14
40	A hemispherical imaging camera. Computer Vision and Image Understanding, 2010, 114, 168-178.	3.0	5
41	From Region Based Image Representation to Object Discovery and Recognition. Lecture Notes in Computer Science, 2010, , 1-19.	1.0	6
42	Sparse Coding of Linear Dynamical Systems with an Application to Dynamic Texture Recognition. , 2010, , , .		15
43	SVM for edge-preserving filtering. , 2010, , .		20
44	A constant-space belief propagation algorithm for stereo matching. , 2010, , .		148
45	Real-Time Specular Highlight Removal Using Bilateral Filtering. Lecture Notes in Computer Science, 2010, , 87-100.	1.0	95
46	Search strategies for shape regularized active contour. Computer Vision and Image Understanding, 2009, 113, 1053-1063.	3.0	5
47	A syntax for image understanding. , 2009, , .		0
48	Robust segmentation of freight containers in train monitoring videos. , 2009, , .		2
49	A syntax for image understanding. , 2009, , .		0
50	A Tensor Approximation Approach to Dimensionality Reduction. International Journal of Computer Vision, 2008, 76, 217-229.	10.9	59
51	Region-Based Hierarchical Image Matching. International Journal of Computer Vision, 2008, 78, 47-66.	10.9	52
52	Unsupervised Category Modeling, Recognition, and Segmentation in Images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 2158-2174.	9.7	79
53	Segmentation of periodically moving objects. , 2008, , .		9
54	A unified model for activity recognition from video sequences. , 2008, , .		4

#	ARTICLE	IF	CITATIONS
55	Segmentation-based Perceptual Image Quality Assessment (SPIQA). , 2008, , .		7
56	Extracting a fluid dynamic texture and the background from video. , 2008, , .		11
57	Scale-invariant region-based hierarchical imagematching. , 2008, , .		1
58	A Vision System for Monitoring Intermodal Freight Trains. Proceedings IEEE Workshop on Applications of Computer Vision, 2007, , .	0.0	5
59	Phase Based Modelling of Dynamic Textures. , 2007, , .		30
60	Active Aperture Control and Sensor Modulation for Flexible Imaging. , 2007, , .		6
61	Extraction and Analysis of Multiple Periodic Motions in Video Sequences. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1244-1261.	9.7	48
62	Design Analysis of a High-Resolution Panoramic Camera Using Conventional Imagers and a Mirror Pyramid. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 356-361.	9.7	16
63	Phase PCA for Dynamic Texture Video Compression. , 2007, , .		8
64	Extracting Texels in 2.1D Natural Textures. , 2007, , .		42
65	A Novel Omnidirectional Stereo Vision System with a Single Camera. Lecture Notes in Computer Science, 2006, , 146-156.	1.0	6
66	Shape regularized active contour based on dynamic programming for anatomical structure segmentation. , 2005, , .		4
67	Out-of-core tensor approximation of multi-dimensional matrices of visual data. ACM Transactions on Graphics, 2005, 24, 527-535.	4.9	79
68	Split Aperture Imaging for High Dynamic Range. International Journal of Computer Vision, 2004, 58, 7-17.	10.9	83
69	Multiview panoramic cameras using mirror pyramids. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 941-946.	9.7	53
70	A Pupil-Centric Model of Image Formation. International Journal of Computer Vision, 2002, 48, 195-214.	10.9	19
71	Edge Measures Using Similarity Regions. , 2001, , 241-288.		1
72	Automated image registration by maximization of a region similarity metric. International Journal of Imaging Systems and Technology, 1997, 8, 513-518.	2.7	4

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73	Range estimation from focus using a non-frontal imaging camera. <i>International Journal of Computer Vision</i> , 1996, 20, 169.	10.9	35
74	Mirror uncertainty and uniqueness conditions for determining shape and motion from orthographic projection. <i>International Journal of Computer Vision</i> , 1994, 13, 295-309.	10.9	2
75	Motion and structure estimation using long sequence motion models. <i>Image and Vision Computing</i> , 1993, 11, 549-569.	2.7	16
76	Two-View Analysis. <i>Springer Series in Information Sciences</i> , 1993, , 65-126.	1.3	0
77	Motion and structure factorization and segmentation of long multiple motion image sequences. <i>Lecture Notes in Computer Science</i> , 1992, , 217-221.	1.0	17
78	Octree generation from object silhouettes in perspective views. <i>Computer Vision, Graphics, and Image Processing</i> , 1990, 49, 68-84.	1.1	34
79	Extraction of early perceptual structure in dot patterns: Integrating region, boundary, and component gestalt. <i>Computer Vision, Graphics, and Image Processing</i> , 1989, 48, 304-356.	1.1	111
80	A simplified linear optic flow-motion algorithm. <i>Computer Vision, Graphics, and Image Processing</i> , 1988, 42, 334-344.	1.1	50
81	Line drawings of octree-represented objects. <i>ACM Transactions on Graphics</i> , 1988, 7, 61-75.	4.9	13
82	3-D Motion Estimation, Understanding, and Prediction from Noisy Image Sequences. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1987, PAMI-9, 370-389.	9.7	128
83	Octrees of objects in arbitrary motion: Representation and efficiency. <i>Computer Vision, Graphics, and Image Processing</i> , 1987, 39, 167-185.	1.1	36
84	Efficient planar embedding of trees for VLSI layouts. <i>Computer Vision, Graphics, and Image Processing</i> , 1986, 34, 189-203.	1.1	7
85	Deriving object octree from images. <i>Lecture Notes in Computer Science</i> , 1985, , 196-211.	1.0	1
86	Octree representations of moving objects. <i>Computer Vision, Graphics, and Image Processing</i> , 1984, 26, 207-216.	1.1	45
87	On approaches to polygonal decomposition for hierarchical image representation. <i>Computer Vision, Graphics, and Image Processing</i> , 1983, 24, 200-214.	1.1	32
88	17 Image models. <i>Handbook of Statistics</i> , 1982, , 383-397.	0.4	0
89	Dot Pattern Processing Using Voronoi Neighborhoods. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1982, PAMI-4, 336-343.	9.7	149
90	Mosaic Models for Textures. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1981, PAMI-3, 1-11.	9.7	78

#	ARTICLE	IF	CITATIONS
91	Mosaic models for imagesâ€™I. Geometric properties of components in cell-structure mosaics. Information Sciences, 1981, 23, 69-104.	4.0	5
92	Mosaic models for imagesâ€™II. Geometric properties of components in coverage mosaics. Information Sciences, 1981, 23, 159-200.	4.0	5
93	Mosaic models for imagesâ€™III. Spatial correlation in mosaics. Information Sciences, 1981, 24, 43-69.	4.0	5
94	Image Models. ACM Computing Surveys, 1981, 13, 373-397.	16.1	27
95	Mosaic Models for Textures. , 1981, , 1-8.		4
96	Neighbor gray levels as features in pixel classification. Pattern Recognition, 1980, 12, 251-260.	5.1	31
97	Some Experiments with Mosaic Models for Images. IEEE Transactions on Systems, Man, and Cybernetics, 1980, 10, 744-749.	0.9	12
98	Random pattern generation processes. Computer Graphics and Image Processing, 1979, 10, 95-114.	0.9	69