

David J Fleet

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.

65
papers

10,243
citations

37
h-index

67
g-index

67
ext. papers

13,789
ext. citations

6.9
avg, IF

6.78
L-index

#	Paper	IF	Citations
65	Performance of optical flow techniques. <i>International Journal of Computer Vision</i> , 1994 , 12, 43-77	10.6	2644
64	cryoSPARC: algorithms for rapid unsupervised cryo-EM structure determination. <i>Nature Methods</i> , 2017 , 14, 290-296	21.6	2138
63	TurboPixels: fast superpixels using geometric flows. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009 , 31, 2290-7	13.3	748
62	Computation of component image velocity from local phase information. <i>International Journal of Computer Vision</i> , 1990 , 5, 77-104	10.6	645
61	Gaussian process dynamical models for human motion. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008 , 30, 283-98	13.3	515
60	Neural encoding of binocular disparity: energy models, position shifts and phase shifts. <i>Vision Research</i> , 1996 , 36, 1839-57	2.1	274
59	Human cortical activity correlates with stereoscopic depth perception. <i>Journal of Neurophysiology</i> , 2001 , 86, 2054-68	3.2	228
58	Non-uniform refinement: adaptive regularization improves single-particle cryo-EM reconstruction. <i>Nature Methods</i> , 2020 , 17, 1214-1221	21.6	206
57	Stochastic Tracking of 3D Human Figures Using 2D Image Motion. <i>Lecture Notes in Computer Science</i> , 2000 , 702-718	0.9	197
56	Phase-based disparity measurement. <i>CVGIP Image Understanding</i> , 1991 , 53, 198-210		167
55	Model-Based 3D Hand Pose Estimation from Monocular Video. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 1793-805	13.3	164
54	Cartesian K-Means 2013 ,		157
53	Computing optical flow with physical models of brightness variation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2001 , 23, 661-673	13.3	138
52	3D variability analysis: Resolving continuous flexibility and discrete heterogeneity from single particle cryo-EM. <i>Journal of Structural Biology</i> , 2021 , 213, 107702	3.4	126
51	Fast Exact Search in Hamming Space With Multi-Index Hashing. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2014 , 36, 1107-19	13.3	120
50	Fast search in Hamming space with multi-index hashing 2012 ,		106
49	Measurement of Image Velocity 1992 ,		94

48	Optimizing walking controllers. <i>ACM Transactions on Graphics</i> , 2009 , 28, 1-8	7.6	92
47	Probabilistic Detection and Tracking of Motion Boundaries. <i>International Journal of Computer Vision</i> , 2000 , 38, 231-245	10.6	89
46	. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1995 , 17, 61-67	13.3	81
45	Robustly Estimating Changes in Image Appearance. <i>Computer Vision and Image Understanding</i> , 2000 , 78, 8-31	4.3	78
44	Multifactor Gaussian process models for style-content separation 2007 ,		75
43	Computational analysis of non-Fourier motion. <i>Vision Research</i> , 1994 , 34, 3057-79	2.1	69
42	2010 ,		68
41	Physics-Based Person Tracking Using the Anthropomorphic Walker. <i>International Journal of Computer Vision</i> , 2010 , 87, 140-155	10.6	59
40	Model-based hand tracking with texture, shading and self-occlusions 2008 ,		57
39	Design and Use of Linear Models for Image Motion Analysis. <i>International Journal of Computer Vision</i> , 2000 , 36, 171-193	10.6	56
38	Estimating contact dynamics 2009 ,		55
37	. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1989 , 11, 315-325	13.3	51
36	Temporal motion models for monocular and multiview 3D human body tracking. <i>Computer Vision and Image Understanding</i> , 2006 , 104, 157-177	4.3	49
35	Optimizing walking controllers for uncertain inputs and environments. <i>ACM Transactions on Graphics</i> , 2010 , 29, 1-8	7.6	47
34	3D Variability Analysis: Resolving continuous flexibility and discrete heterogeneity from single particle cryo-EM		45
33	Spatiotemporal inseparability in early visual processing. <i>Biological Cybernetics</i> , 1985 , 52, 153-64	2.8	43
32	The Kneel Walker for human pose tracking 2008 ,		42
31	Physics-Based Person Tracking Using Simplified Lower-Body Dynamics 2007 ,		39

30	Posebits for Monocular Human Pose Estimation 2014 ,		37
29	Non-uniform refinement: Adaptive regularization improves single particle cryo-EM reconstruction		37
28	Second-order motions contribute to vection. <i>Vision Research</i> , 1998 , 38, 2801-16	2.1	34
27	Linear filtering precedes nonlinear processing in early vision. <i>Current Biology</i> , 1996 , 6, 891-6	6.3	29
26	Synaptic vesicle mobility and presynaptic F-actin are disrupted in a N-ethylmaleimide-sensitive factor allele of <i>Drosophila</i> . <i>Molecular Biology of the Cell</i> , 2006 , 17, 4709-19	3.5	28
25	Building Proteins in a Day: Efficient 3D Molecular Structure Estimation with Electron Cryomicroscopy. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 706-718	13.3	24
24	Bone graphs: Medial shape parsing and abstraction. <i>Computer Vision and Image Understanding</i> , 2011 , 115, 1044-1061	4.3	24
23	Stereopsis from contrast envelopes. <i>Vision Research</i> , 1999 , 39, 2313-24	2.1	24
22	Shared Kernel Information Embedding for discriminative inference. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 778-90	13.3	22
21	Optimizing walking controllers 2009 ,		22
20	Phase singularities in scale-space. <i>Image and Vision Computing</i> , 1991 , 9, 338-343	3.7	21
19	Object categorization using bone graphs. <i>Computer Vision and Image Understanding</i> , 2011 , 115, 1187-1206	4.3	20
18	Efficient Optimization for Sparse Gaussian Process Regression. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 2415-27	13.3	19
17	Human attributes from 3D pose tracking. <i>Computer Vision and Image Understanding</i> , 2012 , 116, 648-660	4.3	18
16	Texture space. <i>Vision Research</i> , 2001 , 41, 745-57	2.1	18
15	Modeling Human Locomotion with Topologically Constrained Latent Variable Models 2007 , 104-118		14
14	Human Attributes from 3D Pose Tracking. <i>Lecture Notes in Computer Science</i> , 2010 , 243-257	0.9	12
13	Linear and nonlinear transparencies in binocular vision. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998 , 265, 1837-45	4.4	10

12	Disparity tuning as simulated by a neural net. <i>Biological Cybernetics</i> , 2000 , 83, 61-72	2.8	9
11	Video-Based People Tracking 2010 , 57-87		9
10	Motion Models for People Tracking 2011 , 171-198		8
9	Scale-space singularities. <i>Lecture Notes in Computer Science</i> , 1990 , 50-55	0.9	8
8	3D Flexible Refinement: Structure and Motion of Flexible Proteins from Cryo-EM		8
7	Building proteins in a day: Efficient 3D molecular reconstruction 2015 ,		7
6	Spinal Cord Segmentation by One Dimensional Normalized Template Matching: A Novel, Quantitative Technique to Analyze Advanced Magnetic Resonance Imaging Data. <i>PLoS ONE</i> , 2015 , 10, e0139323	3.7	7
5	Spatiotemporal inseparability in early vision: centre-surround models and velocity selectivity. <i>Computational Intelligence</i> , 1985 , 1, 89-102	2.5	6
4	Simultaneous Tracking and Activity Recognition 2011 ,		2
3	Correction to "Gaussian Process Dynamical Models for Human Motion" [Feb 08 283-298]. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008 , 30, 1118-1118	13.3	2
2	Walking on Thin Air: Environment-Free Physics-Based Markerless Motion Capture 2018 ,		2
1	Towards a Theory of Motion Understanding in Man and Machine. <i>Kluwer International Series in Engineering and Computer Science</i> , 1988 , 353-417		