David J Fleet

List of Publications by Year in descending order

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Version: 2024-02-01

159525 243529 17,161 61 30 44 citations h-index g-index papers 67 67 67 14385 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | cryoSPARC: algorithms for rapid unsupervised cryo-EM structure determination. Nature Methods, 2017, 14, 290-296. | 9.0 | 5,371 |
| 2 | Performance of optical flow techniques. International Journal of Computer Vision, 1994, 12, 43-77. | 10.9 | 3,618 |
| 3 | TurboPixels: Fast Superpixels Using Geometric Flows. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 2290-2297. | 9.7 | 954 |
| 4 | Computation of component image velocity from local phase information. International Journal of Computer Vision, 1990, 5, 77-104. | 10.9 | 849 |
| 5 | Non-uniform refinement: adaptive regularization improves single-particle cryo-EM reconstruction. Nature Methods, 2020, 17, 1214-1221. | 9.0 | 801 |
| 6 | Gaussian Process Dynamical Models for Human Motion. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 283-298. | 9.7 | 713 |
| 7 | 3D variability analysis: Resolving continuous flexibility and discrete heterogeneity from single particle cryo-EM. Journal of Structural Biology, 2021, 213, 107702. | 1.3 | 550 |
| 8 | Neural encoding of binocular disparity: Energy models, position shifts and phase shifts. Vision Research, 1996, 36, 1839-1857. | 0.7 | 318 |
| 9 | Human Cortical Activity Correlates With Stereoscopic Depth Perception. Journal of Neurophysiology, 2001, 86, 2054-2068. | 0.9 | 269 |
| 10 | Phase-based disparity measurement. CVGIP Image Understanding, 1991, 53, 198-210. | 1.3 | 236 |
| 11 | Cartesian K-Means. , 2013, , . | | 215 |
| 12 | Model-Based 3D Hand Pose Estimation from Monocular Video. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1793-1805. | 9.7 | 212 |
| 13 | Fast Exact Search in Hamming Space With Multi-Index Hashing. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1107-1119. | 9.7 | 178 |
| 14 | Computing optical flow with physical models of brightness variation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 661-673. | 9.7 | 166 |
| 15 | Fast search in Hamming space with multi-index hashing. , 2012, , . | | 152 |
| 16 | Measurement of Image Velocity. , 1992, , . | | 150 |
| 17 | Optimizing walking controllers. ACM Transactions on Graphics, 2009, 28, 1-8. | 4.9 | 124 |
| 18 | Robustly Estimating Changes in Image Appearance. Computer Vision and Image Understanding, 2000, 78, 8-31. | 3.0 | 111 |

| # | Article | IF | Citations |
|----|---|------|-----------|
| 19 | Probabilistic Detection and Tracking of Motion Boundaries. International Journal of Computer Vision, 2000, 38, 231-245. | 10.9 | 103 |
| 20 | Recursive filters for optical flow. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1995, 17, 61-67. | 9.7 | 99 |
| 21 | Multifactor Gaussian process models for style-content separation. , 2007, , . | | 93 |
| 22 | Dynamical binary latent variable models for 3D human pose tracking. , 2010, , . | | 87 |
| 23 | Computational analysis of non-Fourier motion. Vision Research, 1994, 34, 3057-3079. | 0.7 | 86 |
| 24 | Design and Use of Linear Models for Image Motion Analysis. International Journal of Computer Vision, 2000, 36, 171-193. | 10.9 | 82 |
| 25 | Model-based hand tracking with texture, shading and self-occlusions. , 2008, , . | | 75 |
| 26 | Physics-Based Person Tracking Using the Anthropomorphic Walker. International Journal of Computer Vision, 2010, 87, 140-155. | 10.9 | 75 |
| 27 | Estimating contact dynamics. , 2009, , . | | 72 |
| 28 | Hierarchical construction of orientation and velocity selective filters. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1989 , 11 , 315 - 325 . | 9.7 | 71 |
| 29 | Spatiotemporal inseparability in early visual processing. Biological Cybernetics, 1985, 52, 153-164. | 0.6 | 71 |
| 30 | Temporal motion models for monocular and multiview 3D human body tracking. Computer Vision and Image Understanding, 2006, 104, 157-177. | 3.0 | 69 |
| 31 | Optimizing walking controllers for uncertain inputs and environments. ACM Transactions on Graphics, 2010, 29, 1-8. | 4.9 | 57 |
| 32 | The Kneed Walker for human pose tracking. , 2008, , . | | 50 |
| 33 | Physics-Based Person Tracking Using Simplified Lower-Body Dynamics. , 2007, , . | | 45 |
| 34 | Posebits for Monocular Human Pose Estimation. , 2014, , . | | 44 |
| 35 | Building Proteins in a Day: Efficient 3D Molecular Structure Estimation with Electron Cryomicroscopy. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 706-718. | 9.7 | 41 |
| 36 | Second-order motions contribute to vection. Vision Research, 1998, 38, 2801-2816. | 0.7 | 36 |

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|----|---|-----|-----------|
| 37 | Optimizing walking controllers. , 2009, , . | | 35 |
| 38 | Bone graphs: Medial shape parsing and abstraction. Computer Vision and Image Understanding, 2011, 115, 1044-1061. | 3.0 | 35 |
| 39 | Synaptic Vesicle Mobility and Presynaptic F-Actin Are Disrupted in a N-ethylmaleimide–sensitive Factor Allele of Drosophila. Molecular Biology of the Cell, 2006, 17, 4709-4719. | 0.9 | 32 |
| 40 | Linear filtering precedes nonlinear processing in early vision. Current Biology, 1996, 6, 891-896. | 1.8 | 31 |
| 41 | Stereopsis from contrast envelopes. Vision Research, 1999, 39, 2313-2324. | 0.7 | 29 |
| 42 | Shared Kernel Information Embedding for Discriminative Inference. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 778-790. | 9.7 | 28 |
| 43 | Phase singularities in scale-space. Image and Vision Computing, 1991, 9, 338-343. | 2.7 | 27 |
| 44 | Object categorization using bone graphs. Computer Vision and Image Understanding, 2011, 115, 1187-1206. | 3.0 | 26 |
| 45 | Efficient Optimization for Sparse Gaussian Process Regression. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2415-2427. | 9.7 | 22 |
| 46 | Human attributes from 3D pose tracking. Computer Vision and Image Understanding, 2012, 116, 648-660. | 3.0 | 21 |
| 47 | Texture space. Vision Research, 2001, 41, 745-757. | 0.7 | 20 |
| 48 | Human Attributes from 3D Pose Tracking. Lecture Notes in Computer Science, 2010, , 243-257. | 1.0 | 19 |
| 49 | Modeling Human Locomotion with Topologically Constrained Latent Variable Models. , 2007, , 104-118. | | 18 |
| 50 | Linear and nonlinear transparencies in binocular vision. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 1837-1845. | 1.2 | 14 |
| 51 | Disparity tuning as simulated by a neural net. Biological Cybernetics, 2000, 83, 61-72. | 0.6 | 11 |
| 52 | Correction to "Gaussian Process Dynamical Models for Human Motion" [Feb 08 283-298]. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1118-1118. | 9.7 | 10 |
| 53 | Video-Based People Tracking. , 2010, , 57-87. | | 10 |
| 54 | Motion Models for People Tracking. , 2011, , 171-198. | | 9 |

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|----|--|-----|-----------|
| 55 | Spatiotemporal inseparability in early vision: centre-surround models and velocity selectivity. Computational Intelligence, 1985, 1, 89-102. | 2.1 | 8 |
| 56 | Building proteins in a day: Efficient 3D molecular reconstruction. , 2015, , . | | 8 |
| 57 | Spinal Cord Segmentation by One Dimensional Normalized Template Matching: A Novel, Quantitative Technique to Analyze Advanced Magnetic Resonance Imaging Data. PLoS ONE, 2015, 10, e0139323. | 1.1 | 7 |
| 58 | Simultaneous Tracking and Activity Recognition. , 2011, , . | | 3 |
| 59 | Walking on Thin Air: Environment-Free Physics-Based Markerless Motion Capture. , 2018, , . | | 2 |
| 60 | The Extraction of Orientation and 2-D Velocity through Hierarchical Processing. , $1986, , .$ | | 0 |
| 61 | Towards a Theory of Motion Understanding in Man and Machine. Kluwer International Series in Engineering and Computer Science, 1988, , 353-417. | 0.2 | 0 |