

Erik Meijering

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.

69 papers	4,815 citations	25 h-index	69 g-index
87 ext. papers	6,079 ext. citations	8.4 avg, IF	6.04 L-index

#	Paper	IF	Citations
69	Methods for cell and particle tracking. <i>Methods in Enzymology</i> , 2012 , 504, 183-200	1.7	893
68	Objective comparison of particle tracking methods. <i>Nature Methods</i> , 2014 , 11, 281-9	21.6	571
67	Cell Segmentation: 50 Years Down the Road [Life Sciences]. <i>IEEE Signal Processing Magazine</i> , 2012 , 29, 140-145	9.4	299
66	Neuron tracing in perspective. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2010 , 77, 693-704	4.6	264
65	A benchmark for comparison of cell tracking algorithms. <i>Bioinformatics</i> , 2014 , 30, 1609-17	7.2	262
64	An objective comparison of cell-tracking algorithms. <i>Nature Methods</i> , 2017 , 14, 1141-1152	21.6	242
63	Advanced level-set-based cell tracking in time-lapse fluorescence microscopy. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 852-67	11.7	188
62	Quantitative comparison of spot detection methods in fluorescence microscopy. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 282-301	11.7	174
61	Tracking in cell and developmental biology. <i>Seminars in Cell and Developmental Biology</i> , 2009 , 20, 894-902	7.5	169
60	In vivo characterization and quantification of atherosclerotic carotid plaque components with multidetector computed tomography and histopathological correlation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006 , 26, 2366-72	9.4	149
59	BigNeuron: Large-Scale 3D Neuron Reconstruction from Optical Microscopy Images. <i>Neuron</i> , 2015 , 87, 252-6	13.9	147
58	Rab6, Rab8, and MICAL3 cooperate in controlling docking and fusion of exocytotic carriers. <i>Current Biology</i> , 2011 , 21, 967-74	6.3	132
57	Particle filtering for multiple object tracking in dynamic fluorescence microscopy images: application to microtubule growth analysis. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 789-804	11.7	126
56	Super-resolution methods in MRI: can they improve the trade-off between resolution, signal-to-noise ratio, and acquisition time?. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1983-93	4.4	116
55	In vitro reconstitution of the functional interplay between MCAK and EB3 at microtubule plus ends. <i>Current Biology</i> , 2010 , 20, 1717-22	6.3	109
54	Imagining the future of bioimage analysis. <i>Nature Biotechnology</i> , 2016 , 34, 1250-1255	44.5	108
53	End-binding proteins sensitize microtubules to the action of microtubule-targeting agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8900-5	11.5	76

52	ATP-dependent and independent functions of Rad54 in genome maintenance. <i>Journal of Cell Biology</i> , 2011 , 192, 735-50	7.3	59
51	A note on cubic convolution interpolation. <i>IEEE Transactions on Image Processing</i> , 2003 , 12, 477-9	8.7	56
50	Automatic tracing of ultra-volumes of neuronal images. <i>Nature Methods</i> , 2017 , 14, 332-333	21.6	52
49	History-dependent catastrophes regulate axonal microtubule behavior. <i>Current Biology</i> , 2010 , 20, 1023-8	8.3	51
48	BRCA2 diffuses as oligomeric clusters with RAD51 and changes mobility after DNA damage in live cells. <i>Journal of Cell Biology</i> , 2014 , 207, 599-613	7.3	42
47	A bird's-eye view of deep learning in bioimage analysis. <i>Computational and Structural Biotechnology Journal</i> , 2020 , 18, 2312-2325	6.8	41
46	EB1 and EB3 regulate microtubule minus end organization and Golgi morphology. <i>Journal of Cell Biology</i> , 2017 , 216, 3179-3198	7.3	40
45	Quantitative comparison of multiframe data association techniques for particle tracking in time-lapse fluorescence microscopy. <i>Medical Image Analysis</i> , 2015 , 24, 163-189	15.4	24
44	Reverse genetic screen reveals that Il34 facilitates yolk sac macrophage distribution and seeding of the brain. <i>DMM Disease Models and Mechanisms</i> , 2019 , 12,	4.1	23
43	Automated neuron tracing using probability hypothesis density filtering. <i>Bioinformatics</i> , 2017 , 33, 1073-1080	10.80	22
42	Comprehensive single cell-resolution analysis of the role of chromatin regulators in early C. elegans embryogenesis. <i>Developmental Biology</i> , 2015 , 398, 153-62	3.1	21
41	Microtubule dynamics analysis using kymographs and variable-rate particle filters. <i>IEEE Transactions on Image Processing</i> , 2010 , 19, 1861-76	8.7	21
40	Particle Mobility Analysis Using Deep Learning and the Moment Scaling Spectrum. <i>Scientific Reports</i> , 2019 , 9, 17160	4.9	20
39	Fuzzy-Logic Based Detection and Characterization of Junctions and Terminations in Fluorescence Microscopy Images of Neurons. <i>Neuroinformatics</i> , 2016 , 14, 201-19	3.2	18
38	Reversible jump MCMC methods for fully automatic motion analysis in tagged MRI. <i>Medical Image Analysis</i> , 2012 , 16, 301-24	15.4	18
37	Extracellular matrix defects in aneurysmal Fibulin-4 mice predispose to lung emphysema. <i>PLoS ONE</i> , 2014 , 9, e106054	3.7	15
36	Concerted action of kinesins KIF5B and KIF13B promotes efficient secretory vesicle transport to microtubule plus ends. <i>ELife</i> , 2020 , 9,	8.9	15
35	Diffusion-enhanced visualization and quantification of vascular anomalies in three-dimensional rotational angiography: results of an in-vitro evaluation. <i>Medical Image Analysis</i> , 2002 , 6, 215-33	15.4	13

34	Bayesian Polytrees With Learned Deep Features for Multi-Class Cell Segmentation. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 3246-3260	8.7	11
33	Deep neural networks for data association in particle tracking 2018 ,		11
32	Automated neuron morphology reconstruction using fuzzy-logic detection and Bayesian tracing algorithms 2015 ,		10
31	Toward a Morphodynamic Model of the Cell: Signal processing for cell modeling. <i>IEEE Signal Processing Magazine</i> , 2015 , 32, 20-29	9.4	10
30	3-D Quantification of Filopodia in Motile Cancer Cells. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 862-872	11.7	10
29	Evaluation of an improved technique for lumen path definition and lumen segmentation of atherosclerotic vessels in CT angiography. <i>European Radiology</i> , 2007 , 17, 1738-45	8	9
28	Deep-learning method for data association in particle tracking. <i>Bioinformatics</i> , 2020 , 36, 4935-4941	7.2	9
27	Automated Neuron Reconstruction from 3D Fluorescence Microscopy Images Using Sequential Monte Carlo Estimation. <i>Neuroinformatics</i> , 2019 , 17, 423-442	3.2	9
26	3D Neuron Microscopy Image Segmentation via the Ray-Shooting Model and a DC-BLSTM Network. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 26-37	11.7	9
25	Segmentation of actin-stained 3D fluorescent cells with filopodial protrusions using convolutional neural networks 2018 ,		8
24	Quantitative imaging of focal adhesion dynamics and their regulation by HGF and Rap1 signaling. <i>Experimental Cell Research</i> , 2015 , 330, 382-397	4.2	8
23	Automated Analysis of Intracellular Dynamic Processes. <i>Methods in Molecular Biology</i> , 2017 , 1563, 209-228	4	7
22	Automated Neuron Detection in High-Content Fluorescence Microscopy Images Using Machine Learning. <i>Neuroinformatics</i> , 2019 , 17, 253-269	3.2	7
21	Multiple Sparse Representations Classification. <i>PLoS ONE</i> , 2015 , 10, e0131968	3.7	6
20	Particle Filtering for Multiple Object Tracking in Molecular Cell Biology 2006 ,		6
19	Particle filtering methods for motion analysis in tagged MRI 2010 ,		5
18	Spherical-Patches Extraction for Deep-Learning-Based Critical Points Detection in 3D Neuron Microscopy Images. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 527-538	11.7	5
17	Facilitating Data Association In Particle Tracking Using Autoencoding And Score Matching 2019 ,		4

16	Evaluation of an improved technique for automated center lumen line definition in cardiovascular image data. <i>European Radiology</i> , 2006 , 16, 391-8	8	4
15	Fuzzy logic based detection of neuron bifurcations in microscopy images 2014 ,		3
14	Neuron reconstruction from fluorescence microscopy images using sequential Monte Carlo estimation 2017 ,		3
13	Automatic Improvement of Deep Learning Based Cell Segmentation in Time-Lapse Microscopy by Neural Architecture Search. <i>Bioinformatics</i> , 2021 ,	7.2	3
12	Automatic detection of neurons in high-content microscope images using machine learning approaches 2016 ,		2
11	Three-dimensional inversion recovery manganese-enhanced MRI of mouse brain using super-resolution reconstruction to visualize nuclei involved in higher brain function. <i>NMR in Biomedicine</i> , 2014 , 27, 749-59	4.4	2
10	Interactive local super-resolution reconstruction of whole-body MRI mouse data: a pilot study with applications to bone and kidney metastases. <i>PLoS ONE</i> , 2014 , 9, e108730	3.7	2
9	Deep-Learning Based Automated Neuron Reconstruction from 3D Microscopy Images Using Synthetic Training Images. <i>IEEE Transactions on Medical Imaging</i> , 2021 , PP,	11.7	1
8	Concerted action of kinesins KIF5B and KIF13B promotes efficient secretory vesicle transport to microtubule plus ends		1
7	Efficient 3D Junction Detection in Biomedical Images Based on a Circular Sampling Model and Reverse Mapping. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 1612-1623	7.2	1
6	Estimation of three-dimensional chromatin morphology for nuclear classification and characterisation. <i>Scientific Reports</i> , 2021 , 11, 3364	4.9	1
5	Deep learning methods for automatic segmentation of lower leg muscles and bones from MRI scans of children with and without cerebral palsy. <i>NMR in Biomedicine</i> , 2021 , 34, e4609	4.4	1
4	Classifying Retinal Degeneration in Histological Sections Using Deep Learning. <i>Translational Vision Science and Technology</i> , 2021 , 10, 9	3.3	0
3	Deep Learning in Biological Image and Signal Processing [From the Guest Editors]. <i>IEEE Signal Processing Magazine</i> , 2022 , 39, 24-26	9.4	0
2	Protein Phosphatase 2B Dual Function Facilitates Synaptic Integrity and Motor Learning. <i>Journal of Neuroscience</i> , 2021 , 41, 5579-5594	6.6	
1	Spotlight on Bioimaging and Signal Processing [In the Spotlight]. <i>IEEE Signal Processing Magazine</i> , 2018 , 35, 128-125	9.4	