

Erik Meijering

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1444623/erik-meijering-publications-by-year.pdf>

Version: 2024-04-05

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
68	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
67	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
66	Protein Phosphatase 2B Dual Function Facilitates Synaptic Integrity and Motor Learning. <i>Journal of Neuroscience</i> , 2021 , 41, 5579-5594	6.6	
65	Classifying Retinal Degeneration in Histological Sections Using Deep Learning. <i>Translational Vision Science and Technology</i> , 2021 , 10, 9	3.3	0
64	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
63	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
62	Estimation of three-dimensional chromatin morphology for nuclear classification and characterisation. <i>Scientific Reports</i> , 2021 , 11, 3364	4.9	1
61	Automatic Improvement of Deep Learning Based Cell Segmentation in Time-Lapse Microscopy by Neural Architecture Search. <i>Bioinformatics</i> , 2021 ,	7.2	3
60	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
59	Concerted action of kinesins KIF5B and KIF13B promotes efficient secretory vesicle transport to microtubule plus ends. <i>ELife</i> , 2020 , 9,	8.9	15
58	Deep-learning method for data association in particle tracking. <i>Bioinformatics</i> , 2020 , 36, 4935-4941	7.2	9
57	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
56	Facilitating Data Association In Particle Tracking Using Autoencoding And Score Matching 2019 ,		4
55	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
54	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
53	Particle Mobility Analysis Using Deep Learning and the Moment Scaling Spectrum. <i>Scientific Reports</i> , 2019 , 9, 17160	4.9	20

52	Automated Neuron Detection in High-Content Fluorescence Microscopy Images Using Machine Learning. <i>Neuroinformatics</i> , 2019 , 17, 253-269	3.2	7
51	Automated Neuron Reconstruction from 3D Fluorescence Microscopy Images Using Sequential Monte Carlo Estimation. <i>Neuroinformatics</i> , 2019 , 17, 423-442	3.2	9
50	3-D Quantification of Filopodia in Motile Cancer Cells. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 862-872	11.7	10
49	Segmentation of actin-stained 3D fluorescent cells with filopodial protrusions using convolutional neural networks 2018 ,		8
48	Spotlight on Bioimaging and Signal Processing [In the Spotlight]. <i>IEEE Signal Processing Magazine</i> , 2018 , 35, 128-125	9.4	
47	Deep neural networks for data association in particle tracking 2018 ,		11
46	Automated neuron tracing using probability hypothesis density filtering. <i>Bioinformatics</i> , 2017 , 33, 1073-1080	10.8	22
45	Automated Analysis of Intracellular Dynamic Processes. <i>Methods in Molecular Biology</i> , 2017 , 1563, 209-228	4	7
44	Automatic tracing of ultra-volumes of neuronal images. <i>Nature Methods</i> , 2017 , 14, 332-333	21.6	52
43	An objective comparison of cell-tracking algorithms. <i>Nature Methods</i> , 2017 , 14, 1141-1152	21.6	242
42	EB1 and EB3 regulate microtubule minus end organization and Golgi morphology. <i>Journal of Cell Biology</i> , 2017 , 216, 3179-3198	7.3	40
41	Neuron reconstruction from fluorescence microscopy images using sequential Monte Carlo estimation 2017 ,		3
40	Automatic detection of neurons in high-content microscope images using machine learning approaches 2016 ,		2
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	Imagining the future of bioimage analysis. <i>Nature Biotechnology</i> , 2016 , 34, 1250-1255	44.5	108
37	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
36	BigNeuron: Large-Scale 3D Neuron Reconstruction from Optical Microscopy Images. <i>Neuron</i> , 2015 , 87, 252-6	13.9	147
35	Automated neuron morphology reconstruction using fuzzy-logic detection and Bayesian tracing algorithms 2015 ,		10

34	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
33	Multiple Sparse Representations Classification. <i>PLoS ONE</i> , 2015 , 10, e0131968	3.7	6
32	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
31	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
30	Objective comparison of particle tracking methods. <i>Nature Methods</i> , 2014 , 11, 281-9	21.6	571
29	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
28	Fuzzy logic based detection of neuron bifurcations in microscopy images 2014 ,		3
27	A benchmark for comparison of cell tracking algorithms. <i>Bioinformatics</i> , 2014 , 30, 1609-17	7.2	262
26	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
25	Extracellular matrix defects in aneurysmal Fibulin-4 mice predispose to lung emphysema. <i>PLoS ONE</i> , 2014 , 9, e106054	3.7	15
24	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
23	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
22	Reversible jump MCMC methods for fully automatic motion analysis in tagged MRI. <i>Medical Image Analysis</i> , 2012 , 16, 301-24	15.4	18
21	Methods for cell and particle tracking. <i>Methods in Enzymology</i> , 2012 , 504, 183-200	1.7	893
20	Cell Segmentation: 50 Years Down the Road [Life Sciences]. <i>IEEE Signal Processing Magazine</i> , 2012 , 29, 140-145	9.4	299
19	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
18	Rab6, Rab8, and MICAL3 cooperate in controlling docking and fusion of exocytotic carriers. <i>Current Biology</i> , 2011 , 21, 967-74	6.3	132
17	ATP-dependent and independent functions of Rad54 in genome maintenance. <i>Journal of Cell Biology</i> , 2011 , 192, 735-50	7.3	59

16	Particle filtering methods for motion analysis in tagged MRI 2010 ,		5
15	Microtubule dynamics analysis using kymographs and variable-rate particle filters. <i>IEEE Transactions on Image Processing</i> , 2010 , 19, 1861-76	8.7	21
14	Quantitative comparison of spot detection methods in fluorescence microscopy. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 282-301	11.7	174
13	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
12	History-dependent catastrophes regulate axonal microtubule behavior. <i>Current Biology</i> , 2010 , 20, 1023-8	8.3	51
11	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
10	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
9	Tracking in cell and developmental biology. <i>Seminars in Cell and Developmental Biology</i> , 2009 , 20, 894-902	7.5	169
8	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
7	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
6	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
5	Particle Filtering for Multiple Object Tracking in Molecular Cell Biology 2006 ,		6
4	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
3	A note on cubic convolution interpolation. <i>IEEE Transactions on Image Processing</i> , 2003 , 12, 477-9	8.7	56
2	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
1	Concerted action of kinesins KIF5B and KIF13B promotes efficient secretory vesicle transport to microtubule plus ends		1