

Fred A Hamprecht

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

5,404
citations

331670

21
h-index

454955

30
g-index

44
all docs

44
docs citations

44
times ranked

9254
citing authors

#	ARTICLE	IF	CITATIONS
1	Seipin forms a flexible cage at lipid droplet formation sites. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 194-202.	8.2	33
2	Temporal control of the integrated stress response by a stochastic molecular switch. <i>Science Advances</i> , 2022, 8, eabk2022.	10.3	13
3	A digital 3D reference atlas reveals cellular growth patterns shaping the Arabidopsis ovule. <i>ELife</i> , 2021, 10, .	6.0	49
4	Microscopy-based assay for semi-quantitative detection of SARS-CoV-2 specific antibodies in human sera. <i>BioEssays</i> , 2021, 43, e2000257.	2.5	22
5	End-to-End Learning of Decision Trees and Forests. <i>International Journal of Computer Vision</i> , 2020, 128, 997-1011.	15.6	28
6	Accurate and versatile 3D segmentation of plant tissues at cellular resolution. <i>ELife</i> , 2020, 9, .	6.0	155
7	Experimental and computational analyses reveal that environmental restrictions shape HIV-1 spread in 3D cultures. <i>Nature Communications</i> , 2019, 10, 2144.	12.8	60
8	ilastik: interactive machine learning for (bio)image analysis. <i>Nature Methods</i> , 2019, 16, 1226-1232.	19.0	1,824
9	DiversePathsJ: diverse shortest paths for bioimage analysis. <i>Bioinformatics</i> , 2018, 34, 538-540.	4.1	2
10	Multicut brings automated neurite segmentation closer to human performance. <i>Nature Methods</i> , 2017, 14, 101-102.	19.0	126
11	An objective comparison of cell-tracking algorithms. <i>Nature Methods</i> , 2017, 14, 1141-1152.	19.0	399
12	Imagining the future of bioimage analysis. <i>Nature Biotechnology</i> , 2016, 34, 1250-1255.	17.5	162
13	Structured Regression Gradient Boosting. , 2016, , .		2
14	Segmenting and Tracking Multiple Dividing Targets Using ilastik. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2016, 219, 199-229.	1.6	44
15	Three-dimensional immersive virtual reality for studying cellular compartments in 3D models from EM preparations of neural tissues. <i>Journal of Comparative Neurology</i> , 2016, 524, 23-38.	1.6	85
16	A Generalized Successive Shortest Paths Solver for Tracking Dividing Targets. <i>Lecture Notes in Computer Science</i> , 2016, , 566-582.	1.3	7
17	Three-dimensional immersive virtual reality for studying cellular compartments in 3D models from EM preparations of neural tissues. <i>Journal of Comparative Neurology</i> , 2016, 524, Spc1-Spc1.	1.6	3
18	Fusion moves for correlation clustering. , 2015, , .		23

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19	Automated Detection of Synapses in Serial Section Transmission Electron Microscopy Image Stacks. PLoS ONE, 2014, 9, e87351.	2.5	49
20	Semiautomated correlative 3D electron microscopy of in vivo imaged axons and dendrites. Nature Protocols, 2014, 9, 1354-1366.	12.0	45
21	Image-based supervision of a periodically working machine. Pattern Analysis and Applications, 2013, 16, 407-416.	4.6	1
22	Conservation Tracking. , 2013, , .		52
23	Correlative In Vivo 2 Photon and Focused Ion Beam Scanning Electron Microscopy of Cortical Neurons. PLoS ONE, 2013, 8, e57405.	2.5	79
24	Automated vs. Manual Pattern Recognition of 3D 1H MRSI Data of Patients with Prostate Cancer. Academic Radiology, 2012, 19, 675-684.	2.5	5
25	Seeded watershed cut uncertainty estimators for guided interactive segmentation. , 2012, , .		12
26	Using spatial prior knowledge in the spectral fitting of MRS images. NMR in Biomedicine, 2012, 25, 1-13.	2.8	14
27	Ilastik: Interactive learning and segmentation toolkit. , 2011, , .		754
28	Automated Detection and Segmentation of Synaptic Contacts in Nearly Isotropic Serial Electron Microscopy Images. PLoS ONE, 2011, 6, e24899.	2.5	120
29	An object-oriented library for systematic training and comparison of classifiers for computer-assisted tumor diagnosis from MRSI measurements. Computer Science - Research and Development, 2011, 26, 65-85.	2.7	0
30	Gaussian process classification: singly versus doubly stochastic models, and new computational schemes. Stochastic Environmental Research and Risk Assessment, 2011, 25, 865-879.	4.0	0
31	Probabilistic image segmentation with closedness constraints. , 2011, , .		67
32	On Oblique Random Forests. Lecture Notes in Computer Science, 2011, , 453-469.	1.3	119
33	A comparison of random forest and its Gini importance with standard chemometric methods for the feature selection and classification of spectral data. BMC Bioinformatics, 2009, 10, 213.	2.6	804
34	Analysis of Single-Molecule Fluorescence Spectroscopic Data with a Markov-Modulated Poisson Process. ChemPhysChem, 2009, 10, 2486-2495.	2.1	18
35	Toward Digital Staining using Imaging Mass Spectrometry and Random Forests. Journal of Proteome Research, 2009, 8, 3558-3567.	3.7	87
36	Mimicking the human expert: Pattern recognition for an automated assessment of data quality in MR spectroscopic images. Magnetic Resonance in Medicine, 2008, 59, 1457-1466.	3.0	30

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37	Automated estimation of tumor probability in prostate magnetic resonance spectroscopic imaging: Pattern recognition vs quantification. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 150-159.	3.0	43
38	Multivariate feature selection and hierarchical classification for infrared spectroscopy: serum-based detection of bovine spongiform encephalopathy. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1801-1807.	3.7	55