Olaf Ronneberger

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4438396/publications.pdf

Version: 2024-02-01

40 papers	56,712 citations	270111 25 h-index	388640 36 g-index
46 all docs	46 docs citations	46 times ranked	46224 citing authors

#	Article	IF	Citations
1	Microridge-like structures anchor motile cilia. Nature Communications, 2022, 13, 2056.	5.8	13
2	The Medical Segmentation Decathlon. Nature Communications, 2022, 13, .	5.8	252
3	Highly accurate protein structure prediction with AlphaFold. Nature, 2021, 596, 583-589.	13.7	17,754
4	Highly accurate protein structure prediction for the human proteome. Nature, 2021, 596, 590-596.	13.7	1,773
5	Clinically Applicable Segmentation of Head and Neck Anatomy for Radiotherapy: Deep Learning Algorithm Development and Validation Study. Journal of Medical Internet Research, 2021, 23, e26151.	2.1	142
6	Applying and improving <scp>AlphaFold</scp> at <scp>CASP14</scp>. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1711-1721.	1.5	231
7	Deep learning is widely applicable to phenotyping embryonic development and disease. Development (Cambridge), 2021, 148, .	1.2	16
8	U-Net: deep learning for cell counting, detection, and morphometry. Nature Methods, 2019, 16, 67-70.	9.0	1,242
9	Data-Driven Modeling of Intracellular Auxin Fluxes Indicates a Dominant Role of the ER in Controlling Nuclear Auxin Uptake. Cell Reports, 2018, 22, 3044-3057.	2.9	25
10	Clinically applicable deep learning for diagnosis and referral in retinal disease. Nature Medicine, 2018, 24, 1342-1350.	15.2	1,551
11	A new fate mapping system reveals context-dependent random or clonal expansion of microglia. Nature Neuroscience, 2017, 20, 793-803.	7.1	446
12	An objective comparison of cell-tracking algorithms. Nature Methods, 2017, 14, 1141-1152.	9.0	399
13	A 3D digital atlas of the Nicotiana tabacum root tip and its use to investigate changes in the root apical meristem induced by the Agrobacterium 6b oncogene. Plant Journal, 2017, 92, 31-42.	2.8	24
14	Gland segmentation in colon histology images: The glas challenge contest. Medical Image Analysis, 2017, 35, 489-502.	7.0	516
15	Spatiotemporal Deformable Prototypes for Motion Anomaly Detection. International Journal of Computer Vision, 2017, 122, 502-523.	10.9	4
16	Automated analysis of retinal imaging using machine learningÂtechniques for computer vision. F1000Research, 2016, 5, 1573.	0.8	34
17	3D U-Net: Learning Dense Volumetric Segmentation from Sparse Annotation. Lecture Notes in Computer Science, 2016, , 424-432.	1.0	2,388
18	The polarity protein Inturned links NPHP4 to Daam1 to control the subapical actin network in multiciliated cells. Journal of Cell Biology, 2015, 211, 963-973.	2.3	48

#	Article	IF	Citations
19	Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: The CADDementia challenge. NeuroImage, 2015, 111, 562-579.	2.1	266
20	The Rac1 regulator ELMO controls basal body migration and docking in multiciliated cells through interaction with Ezrin. Development (Cambridge), 2015, 142, 174-184.	1.2	45
21	B cell antigen receptors of the IgM and IgD classes are clustered in different protein islands that are altered during B cell activation. Science Signaling, 2015, 8, ra93.	1.6	108
22	Spontaneous and electric fieldâ€“controlled frontâ€“rear polarization of human keratinocytes. Molecular Biology of the Cell, 2015, 26, 4373-4386.	0.9	25
23	U-Net: Convolutional Networks for Biomedical Image Segmentation. Lecture Notes in Computer Science, 2015, , 234-241.	1.0	27,139
24	The <scp>iRoCS T</scp>oolbox â€“ 3<scp>D</scp> analysis of the plant root apical meristem at cellular resolution. Plant Journal, 2014, 77, 806-814.	2.8	80
25	Rotation-Invariant HOG Descriptors Using Fourier Analysis in Polar and Spherical Coordinates. International Journal of Computer Vision, 2014, 106, 342-364.	10.9	119
26	Correction of inter-scanner and within-subject variance in structural MRI based automated diagnosing. NeuroImage, 2014, 98, 405-415.	2.1	40
27	Variational attenuation correction in two-view confocal microscopy. BMC Bioinformatics, 2013, 14, 366.	1.2	4
28	Variational attenuation correction of two-view confocal microscopic recordings. , 2013, , .		0
29	Automated Processing of Zebrafish Imaging Data: A Survey. Zebrafish, 2013, 10, 401-421.	0.5	73
30	Blind Deconvolution of Widefield Fluorescence Microscopic Data by Regularization of the Optical Transfer Function (OTF). , 2013, , .		9
31	Joint 3D cell segmentation and classification in the Arabidopsis root using energy minimization and shape priors. , 2013, , .		4
32	Discriminative Detection and Alignment in Volumetric Data. Lecture Notes in Computer Science, 2013, , 205-214.	1.0	4
33	Shroom3 is required downstream of FGF signalling to mediate proneuromast assembly in zebrafish. Development (Cambridge), 2012, 139, 4571-4581.	1.2	53
34	Blind deconvolution with PSF regularization for wide-field microscopy. , 2012, , .		3
35	Fast Rotation Invariant 3D Feature Computation Utilizing Efficient Local Neighborhood Operators. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1563-1575.	9.7	32
36	2D/3D rotation-invariant detection using equivariant filters and kernel weighted mapping. , 2012, , .		3

#	Article	IF	Citations
37	ViBE-Z: a framework for 3D virtual colocalization analysis in zebrafish larval brains. Nature Methods, 2012, 9, 735-742.	9.0	147
38	Comprehensive catecholaminergic projectome analysis reveals single-neuron integration of zebrafish ascending and descending dopaminergic systems. Nature Communications, 2011, 2, 171.	5.8	267
39	Harmonic Filters for 3D Multichannel Data: Rotation Invariant Detection of Mitoses in Colorectal Cancer. IEEE Transactions on Medical Imaging, 2010, 29, 1485-1495.	5.4	15
40	Fast computation of 3D spherical Fourier harmonic descriptors - a complete orthonormal basis for a rotational invariant representation of three-dimensional objects. , 2009, , .		6