Virginie Uhlmann

List of Publications by Year
in descending order

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29	477	933447	839539
papers	citations	10	18
		h-index	g-index

36	36	36	698
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Practical Guide to Supervised Deep Learning for Bioimage Analysis: Challenges and good practices. IEEE Signal Processing Magazine, 2022, 39, 73-86.	5.6	4
2	Steerâ€™nâ€™Detect: fast 2D template detection with accurate orientation estimation. Bioinformatics, 2022, 38, 3146-3148.	4.1	1
3	A Learning-Based Formulation of Parametric Curve Fitting for Bioimage Analysis. Lecture Notes in Computational Science and Engineering, 2021, , 1031-1038.	0.3	1
4	Principled Design and Implementation of Steerable Detectors. IEEE Transactions on Image Processing, 2021, 30, 4465-4478.	9.8	2
5	Aura-Net: Robust Segmentation Of Phase-Contrast Microscopy Images with Few Annotations. , 2021, , .		4
6	Splinedist: Automated Cell Segmentation With Spline Curves. , 2021, , .		25
7	Which image-based phenotypes are most promising for using AI to understand cellular functions and why?. Cell Systems, 2021, 12, 384-387.	6.2	1
8	REMBI: Recommended Metadata for Biological Imagesâ€”enabling reuse of microscopy data in biology. Nature Methods, 2021, 18, 1418-1422.	19.0	63
9	Deep learning for bioimage analysis in developmental biology. Development (Cambridge), 2021, 148, .	2.5	31
10	Gaussian and sparse processes are limits of generalized Poisson processes. Applied and Computational Harmonic Analysis, 2020, 48, 1045-1065.	2.2	5
11	Support and approximation properties of Hermite splines. Journal of Computational and Applied Mathematics, 2020, 368, 112503.	2.0	6
12	Dictionary Learning for Two-Dimensional Kendall Shapes. SIAM Journal on Imaging Sciences, 2020, 13, 141-175.	2.2	3
13	Supervised learning to quantify amyloidosis in whole brains of an Alzheimerâ€™s disease mouse model acquired with optical projection tomography. Biomedical Optics Express, 2019, 10, 3041.	2.9	12
14	Multimodal imaging and high-throughput image-processing for drug screening on living organisms on-chip. Journal of Biomedical Optics, 2018, 24, 1.	2.6	8
15	Multiresolution Subdivision Snakes. IEEE Transactions on Image Processing, 2017, 26, 1188-1201.	9.8	22
16	General surface energy for spinal cord and aorta segmentation. , 2017, , .		1
17	FlyLimbTracker: An active contour based approach for leg segment tracking in unmarked, freely behaving Drosophila. PLoS ONE, 2017, 12, e0173433.	2.5	35
18	Diverse M-Best Solutions by Dynamic Programming. Lecture Notes in Computer Science, 2017, , 255-267.	1.3	0

#	Article	IF	Citations
19	Hermite Snakes With Control of Tangents. IEEE Transactions on Image Processing, 2016, 25, 2803-2816.	9.8	20
20	Maximally Localized Radial Profiles for Tight Steerable Wavelet Frames. IEEE Transactions on Image Processing, 2016, 25, 2275-2287.	9.8	8
21	CP-CHARM: segmentation-free image classification made accessible. BMC Bioinformatics, 2016, 17, 51.	2.6	52
22	Design of Steerable Wavelets to Detect Multifold Junctions. IEEE Transactions on Image Processing, 2016, 25, 643-657.	9.8	15
23	Tip-seeking active contours for bioimage segmentation. , 2015, , .		3
24	Snakes on a Plane: A perfect snap for bioimage analysis. IEEE Signal Processing Magazine, 2015, 32, 41-48.	5.6	63
25	Efficient Shape Priors for Spline-Based Snakes. IEEE Transactions on Image Processing, 2015, 24, 3915-3926.	9.8	15
26	Statistical optimality of Hermite splines. , 2015, , .		3
27	VOW: Variance-optimal wavelets for the steerable pyramid. , 2014, , .		7
28	Exponential Hermite splines for the analysis of biomedical images. , 2014, , .		22
29	Automated classification of immunostaining patterns in breast tissue from the human protein atlas. Journal of Pathology Informatics, 2013, 4, 14.	1.7	24