Virginie Uhlmann

List of Publications by Year
in descending order

29 papers	477 citations	933447 10 h-index	839539 18 g-index
36 all docs	36 docs citations	36 times ranked	698 citing authors

#	Article	IF	Citations
1	Snakes on a Plane: A perfect snap for bioimage analysis. IEEE Signal Processing Magazine, 2015, 32, 41-48.	5.6	63
2	REMBI: Recommended Metadata for Biological Images—enabling reuse of microscopy data in biology. Nature Methods, 2021, 18, 1418-1422.	19.0	63
3	CP-CHARM: segmentation-free image classification made accessible. BMC Bioinformatics, 2016, 17, 51.	2.6	52
4	FlyLimbTracker: An active contour based approach for leg segment tracking in unmarked, freely behaving Drosophila. PLoS ONE, 2017, 12, e0173433.	2.5	35
5	Deep learning for bioimage analysis in developmental biology. Development (Cambridge), 2021, 148, .	2.5	31
6	Splinedist: Automated Cell Segmentation With Spline Curves. , 2021, , .		25
7	Automated classification of immunostaining patterns in breast tissue from the human protein atlas. Journal of Pathology Informatics, 2013, 4, 14.	1.7	24
8	Exponential Hermite splines for the analysis of biomedical images. , 2014, , .		22
9	Multiresolution Subdivision Snakes. IEEE Transactions on Image Processing, 2017, 26, 1188-1201.	9.8	22
10	Hermite Snakes With Control of Tangents. IEEE Transactions on Image Processing, 2016, 25, 2803-2816.	9.8	20
11	Efficient Shape Priors for Spline-Based Snakes. IEEE Transactions on Image Processing, 2015, 24, 3915-3926.	9.8	15
12	Design of Steerable Wavelets to Detect Multifold Junctions. IEEE Transactions on Image Processing, 2016, 25, 643-657.	9.8	15
13	Supervised learning to quantify amyloidosis in whole brains of an Alzheimer's disease mouse model acquired with optical projection tomography. Biomedical Optics Express, 2019, 10, 3041.	2.9	12
14	Maximally Localized Radial Profiles for Tight Steerable Wavelet Frames. IEEE Transactions on Image Processing, 2016, 25, 2275-2287.	9.8	8
15	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
16	VOW: Variance-optimal wavelets for the steerable pyramid. , 2014, , .		7
17	Support and approximation properties of Hermite splines. Journal of Computational and Applied Mathematics, 2020, 368, 112503.	2.0	6
18	Gaussian and sparse processes are limits of generalized Poisson processes. Applied and Computational Harmonic Analysis, 2020, 48, 1045-1065.	2.2	5

#	Article	IF	Citations
19	Aura-Net: Robust Segmentation Of Phase-Contrast Microscopy Images with Few Annotations. , 2021, , .		4
20	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
21	Tip-seeking active contours for bioimage segmentation. , 2015, , .		3
22	Statistical optimality of Hermite splines. , 2015, , .		3
23	Dictionary Learning for Two-Dimensional Kendall Shapes. SIAM Journal on Imaging Sciences, 2020, 13, 141-175.	2.2	3
24	Principled Design and Implementation of Steerable Detectors. IEEE Transactions on Image Processing, 2021, 30, 4465-4478.	9.8	2
25	General surface energy for spinal cord and aorta segmentation. , 2017, , .		1
26	A Learning-Based Formulation of Parametric Curve Fitting for Bioimage Analysis. Lecture Notes in Computational Science and Engineering, 2021, , 1031-1038.	0.3	1
27	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
28	Steer'n'Detect: fast 2D template detection with accurate orientation estimation. Bioinformatics, 2022, 38, 3146-3148.	4.1	1
29	Diverse M-Best Solutions by Dynamic Programming. Lecture Notes in Computer Science, 2017, , 255-267.	1.3	0