Guillaume Cerutti

List of Publications by Year
in descending order

15 papers	415 citations	1307594 7 h-index	1474206 9 g-index
18 all docs	18 docs citations	18 times ranked	420 citing authors

#	Article	IF	Citations
1	Benchmarking of deep learning algorithms for 3D instance segmentation of confocal image datasets. PLoS Computational Biology, 2022, 18, e1009879.	3.2	10
2	Temporal integration of auxin information for the regulation of patterning. ELife, 2020, 9, .	6.0	94
3	treex: a Python package for manipulating rooted trees. Journal of Open Source Software, 2019, 4, 1351.	4.6	5
4	Bark and leaf fusion systems to improve automatic tree species recognition. Ecological Informatics, 2018, 46, 57-73.	5.2	26
5	Segmentation algorithm on smartphone dual camera: application to plant organs in the wild. , 2018, , .		1
6	DRACO-STEM: An Automatic Tool to Generate High-Quality 3D Meshes of Shoot Apical Meristem Tissue at Cell Resolution. Frontiers in Plant Science, 2017, 8, 353.	3.6	8
7	Bark Recognition to Improve Leaf-based Classification in Didactic Tree Species Identification. , 2017, , .		10
8	3-d Tessellation of Plant Tissue - A Dual Optimization Approach to Cell-Level Meristem Reconstruction from Microscopy Images. , 2015, , .		0
9	Tree Leaves Extraction in Natural Images: Comparative Study of Preprocessing Tools and Segmentation Methods. IEEE Transactions on Image Processing, 2015, 24, 1549-1560.	9.8	62
10	Meshing Meristems - An Iterative Mesh Optimization Method for Modeling Plant Tissue at Cell Resolution. , 2015, , .		1
11	Leaf margins as sequences: A structural approach to leaf identification. Pattern Recognition Letters, 2014, 49, 177-184.	4.2	27
12	Understanding leaves in natural images â€" A model-based approach for tree species identification. Computer Vision and Image Understanding, 2013, 117, 1482-1501.	4.7	96
13	Comparative study of segmentation methods for tree leaves extraction. , 2013, , .		9
14	A model-based approach for compound leaves understanding and identification. , 2013, , .		20
15	A Parametric Active Polygon for Leaf Segmentation and Shape Estimation. Lecture Notes in Computer Science, 2011, , 202-213.	1.3	39