

Olivier Mf Monga

List of Publications by Year in descending order

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46
papers

1,266
citations

430754

18
h-index

454834

30
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46
all docs

46
docs citations

46
times ranked

1034
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergent Properties of Microbial Activity in Heterogeneous Soil Microenvironments: Different Research Approaches Are Slowly Converging, Yet Major Challenges Remain. <i>Frontiers in Microbiology</i> , 2018, 9, 1929.	1.5	168
2	Using Partial Derivatives of 3D Images to Extract Typical Surface Features. <i>Computer Vision and Image Understanding</i> , 1995, 61, 171-189.	3.0	154
3	Recursive filtering and edge tracking: two primary tools for 3D edge detection. <i>Image and Vision Computing</i> , 1991, 9, 203-214.	2.7	96
4	3D edge detection using recursive filtering: Application to scanner images. <i>CVGIP Image Understanding</i> , 1991, 53, 76-87.	1.3	78
5	Three-dimensional distribution of water and air in soil pores: Comparison of two-phase two-relaxation-times lattice-Boltzmann and morphological model outputs with synchrotron X-ray computed tomography data. <i>Advances in Water Resources</i> , 2015, 84, 87-102.	1.7	65
6	Quantification of the pore size distribution of soils: Assessment of existing software using tomographic and synthetic 3D images. <i>Geoderma</i> , 2017, 299, 73-82.	2.3	63
7	3D geometric structures and biological activity: Application to microbial soil organic matter decomposition in pore space. <i>Ecological Modelling</i> , 2008, 216, 291-302.	1.2	47
8	Extraction of three-dimensional soil pore space from microtomography images using a geometrical approach. <i>Geoderma</i> , 2011, 163, 127-134.	2.3	47
9	Simulating microbial degradation of organic matter in a simple porous system using the 3-D diffusion-based model MOSAIC. <i>Biogeosciences</i> , 2014, 11, 2201-2209.	1.3	44
10	AN OPTIMAL REGION GROWING ALGORITHM FOR IMAGE SEGMENTATION. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1987, 01, 351-375.	0.7	42
11	Representing geometric structures in 3D tomography soil images: Application to pore-space modeling. <i>Computers and Geosciences</i> , 2007, 33, 1140-1161.	2.0	39
12	<title>Automatic registration of 3D images using surface curvature</title>. , 1992, , .		31
13	3D stereo reconstruction of human faces driven by differential constraints. <i>Image and Vision Computing</i> , 2000, 18, 337-343.	2.7	30
14	Recursive filtering and edge closing: Two primary tools for 3D edge detection. <i>Lecture Notes in Computer Science</i> , 1990, , 56-65.	1.0	29
15	From voxel to intrinsic surface features. <i>Image and Vision Computing</i> , 1992, 10, 403-415.	2.7	29
16	Thin Nets and Crest Lines: Application to Satellite Data and Medical Images. <i>Computer Vision and Image Understanding</i> , 1997, 67, 285-295.	3.0	29
17	Using pore space 3D geometrical modelling to simulate biological activity: Impact of soil structure. <i>Computers and Geosciences</i> , 2009, 35, 1789-1801.	2.0	29
18	3D shape extraction segmentation and representation of soil microstructures using generalized cylinders. <i>Computers and Geosciences</i> , 2012, 39, 50-63.	2.0	22

#	ARTICLE	IF	CITATIONS
19	Accounting for soil architecture and microbial dynamics in microscale models: Current practices in soil science and the path ahead. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	22
20	3D face modeling from stereo and differential constraints. , 0, , .		21
21	Multi-block PCA method for image change detection. , 0, , .		21
22	Using crest lines to guide surface reconstruction from stereo. , 1996, , .		20
23	From voxel to curvature. , 1991, , .		16
24	From Volume Medical Images to Quadratic Surface Patches. <i>Computer Vision and Image Understanding</i> , 1997, 67, 24-38.	3.0	16
25	Thin Nets Extraction Using a Multi-scale Approach. <i>Computer Vision and Image Understanding</i> , 1999, 73, 248-257.	3.0	13
26	Defining and computing stable representations of volume shapes from discrete trace using volume primitives: Application to 3D image analysis in soil science. <i>Image and Vision Computing</i> , 2007, 25, 1134-1153.	2.7	12
27	Real-time image processing systems using fuzzy and rough sets techniques. <i>Soft Computing</i> , 2018, 22, 1381-1384.	2.1	12
28	<title>From partial derivatives of 3-D density images to ridge lines</title>. , 1992, 1808, 118.		11
29	Scenario modelling of carbon mineralization in <scp>3D</scp> soil architecture at the microscale: Toward an accessibility coefficient of organic matter for bacteria. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	10
30	Modeling Microbial Decomposition in Real 3D Soil Structures Using Partial Differential Equations. <i>International Journal of Geosciences</i> , 2013, 04, 15-26.	0.2	10
31	Understanding the joint impacts of soil architecture and microbial dynamics on soil functions: Insights derived from microscale models. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	10
32	From spheres to ellipsoids: Speeding up considerably the morphological modeling of pore space and water retention in soils. <i>Computers and Geosciences</i> , 2019, 123, 20-37.	2.0	7
33	<title>Advanced 3D image processing techniques for liver and hepatic tumor location and volumetry</title>. , 1999, , .		5
34	A Hierarchical Segmentation Algorithm. , 1986, , .		4
35	3D Quantum Cuts for automatic segmentation of porous media in tomography images. <i>Computers and Geosciences</i> , 2022, 159, 105017.	2.0	4
36	Using differential geometry in $R/\sup 4/$ to extract typical features in 3D density images. , 0, , .		2

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37	Simulating Biological Dynamics Using Partial Differential Equations: Application to Decomposition of Organic Matter in 3D Soil Structure. Vietnam Journal of Mathematics, 2015, 43, 801-817.	0.4	2
38	Using Differential Constraints to Generate a 3D Face Model from Stereo. , 1998, , 556-567.		2
39	A New Segmentation Method And Its Application To Stereo Vision. , 1987, , .		1
40	Modelling Complex Volume Shape Using Ellipsoid: Application to Pore Space Representation. , 2017, , .		1
41	Quaternion-Based Texture Analysis of Multiband Satellite Images: Application to the Estimation of Aboveground Biomass in the East Region of Cameroon. Acta Biotheoretica, 2018, 66, 17-60.	0.7	1
42	From Voxels to Ellipsoids: Application to Pore Space Geometrical Modelling. Lecture Notes in Electrical Engineering, 2018, , 184-193.	0.3	1
43	Estimation of Aboveground Biomass from Satellite Data Using Quaternion-Based Texture Analysis of Multi Chromatic Images. , 2015, , .		0
44	Approximation of Pore Space with Ellipsoids: A Comparison of a Geometrical Method with a Statistical one. , 2018, , .		0
45	From Voxels to Curvature Features. , 1992, , 399-407.		0
46	Two methods for a reliable corner detection in 2D images. Lecture Notes in Computer Science, 1995, , 83-90.	1.0	0