

Thierry GÃ©raud

List of Publications by Year in descending order

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72
papers

1,275
citations

516215

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433756

31
g-index

74
all docs

74
docs citations

74
times ranked

799
citing authors

#	ARTICLE	IF	CITATIONS
1	Max-tree Computation on GPUs. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	4.0	1
2	Local Intensity Order Transformation for Robust Curvilinear Object Segmentation. IEEE Transactions on Image Processing, 2022, 31, 2557-2569.	6.0	19
3	Some Equivalence Relation between Persistent Homology and Morphological Dynamics. Journal of Mathematical Imaging and Vision, 2022, 64, 807-824.	0.8	3
4	A global benchmark of algorithms for segmenting the left atrium from late gadolinium-enhanced cardiac magnetic resonance imaging. Medical Image Analysis, 2021, 67, 101832.	7.0	150
5	A New Matching Algorithm Between Trees of Shapes and Its Application to Brain Tumor Segmentation. Lecture Notes in Computer Science, 2021, , 67-78.	1.0	1
6	ICDAR 2021 Competition on Historical Map Segmentation. Lecture Notes in Computer Science, 2021, , 693-707.	1.0	10
7	Equivalence between Digital Well-Composedness and Well-Composedness in the Sense of Alexandrov on n-D Cubical Grids. Journal of Mathematical Imaging and Vision, 2020, 62, 1285-1333.	0.8	2
8	Topological Properties of the First Non-Local Digitally Well-Composed Interpolation on n-D Cubical Grids. Journal of Mathematical Imaging and Vision, 2020, 62, 1256-1284.	0.8	0
9	A minimum barrier distance for multivariate images with applications. Computer Vision and Image Understanding, 2020, 197-198, 102993.	3.0	1
10	A 4D Counter-Example Showing that DWCness Does Not Imply CWCness in nD. Lecture Notes in Computer Science, 2020, , 73-87.	1.0	2
11	Introducing Multivariate Connected Openings and Closings. Lecture Notes in Computer Science, 2019, , 215-227.	1.0	0
12	Connected filters on generalized shape-Spaces. Pattern Recognition Letters, 2019, 128, 348-354.	2.6	3
13	Braids of partitions for the hierarchical representation and segmentation of multimodal images. Pattern Recognition, 2019, 95, 162-172.	5.1	11
14	Left Atrial Segmentation in a Few Seconds Using Fully Convolutional Network and Transfer Learning. Lecture Notes in Computer Science, 2019, , 339-347.	1.0	8
15	Intervertebral Disc Segmentation Using Mathematical Morphologyâ€™A CNN-Free Approach. Lecture Notes in Computer Science, 2019, , 105-118.	1.0	1
16	How to Make n-D Plain Maps Defined on Discrete Surfaces Alexandrov-Well-Composed in a Self-Dual Way. Journal of Mathematical Imaging and Vision, 2019, 61, 849-873.	0.8	4
17	Document Detection in Videos Captured by Smartphones using a Saliency-Based Method. , 2019, ,		7
18	Estimating the Noise Level Function with the Tree of Shapes and Non-parametric Statistics. Lecture Notes in Computer Science, 2019, , 377-388.	1.0	1

#	ARTICLE	IF	CITATIONS
19	An Image Processing Library in Modern C++: Getting Simplicity and Efficiency with Generic Programming. Lecture Notes in Computer Science, 2019, , 121-137.	1.0	3
20	White Matter Hyperintensities Segmentation in a Few Seconds Using Fully Convolutional Network and Transfer Learning. Lecture Notes in Computer Science, 2018, , 501-514.	1.0	8
21	A Tutorial on Well-Composedness. Journal of Mathematical Imaging and Vision, 2018, 60, 443-478.	0.8	28
22	The Tree of Shapes Turned into a Max-Tree: A Simple and Efficient Linear Algorithm. , 2018, , .		14
23	Real-Time Document Detection in Smartphone Videos. , 2018, , .		18
24	The challenge of cerebral magnetic resonance imaging in neonates: A new method using mathematical morphology for the segmentation of structures including diffuse excessive high signal intensities.. Medical Image Analysis, 2018, 48, 75-94.	7.0	6
25	Parallel Computation of Component Trees on Distributed Memory Machines. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 2582-2598.	4.0	13
26	Saliency-Based Detection of Identity Documents Captured by Smartphones. , 2018, , .		11
27	Extraction of Ancient Map Contents Using Trees of Connected Components. Lecture Notes in Computer Science, 2018, , 115-130.	1.0	3
28	Hierarchical Segmentation Using Tree-Based Shape Spaces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 457-469.	9.7	44
29	From neonatal to adult brain MR image segmentation in a few seconds using 3D-like fully convolutional network and transfer learning. , 2017, , .		24
30	Extraction of Ancient Map Contents Using Trees of Connected Components. , 2017, , .		1
31	Introducing the Dahu Pseudo-Distance. Lecture Notes in Computer Science, 2017, , 55-67.	1.0	3
32	Well-Composedness in Alexandrov Spaces Implies Digital Well-Composedness in \mathbb{Z}^n . Lecture Notes in Computer Science, 2017, , 225-237.	1.0	5
33	Morphological Hierarchical Image Decomposition Based on Laplacian 0-Crossings. Lecture Notes in Computer Science, 2017, , 159-171.	1.0	0
34	Morphology-based hierarchical representation with application to text segmentation in natural images. , 2016, , .		6
35	Region-based classification of remote sensing images with the morphological tree of shapes. , 2016, , .		3
36	A challenging issue: Detection of white matter hyperintensities in neonatal brain MRI. , 2016, 2016, 93-96.		3

#	ARTICLE	IF	CITATIONS
37	Hierarchical image simplification and segmentation based on Mumfordâ€™Shah-salient level line selection. Pattern Recognition Letters, 2016, 83, 278-286.	2.6	21
38	Connected Filtering on Tree-Based Shape-Spaces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1126-1140.	9.7	55
39	How to make nD images well-composed without interpolation. , 2015, , .		11
40	Morphological object picking based on the color tree of shapes. , 2015, , .		5
41	MToS: A Tree of Shapes for Multivariate Images. IEEE Transactions on Image Processing, 2015, 24, 5330-5342.	6.0	54
42	How to Make nD Functions Digitally Well-Composed in a Self-dual Way. Lecture Notes in Computer Science, 2015, , 561-572.	1.0	17
43	Self-duality and Digital Topology: Links Between the Morphological Tree of Shapes and Well-Composed Gray-Level Images. Lecture Notes in Computer Science, 2015, , 573-584.	1.0	7
44	Efficient Computation of Attributes and Saliency Maps on Tree-Based Image Representations. Lecture Notes in Computer Science, 2015, , 693-704.	1.0	15
45	Speckle spot detection in ultrasound images: Application to speckle reduction and speckle tracking. , 2014, , .		5
46	A first parallel algorithm to compute the morphological tree of shapes of nD images. , 2014, , .		21
47	A Morphological Tree of Shapes for Color Images. , 2014, , .		8
48	Getting a morphological tree of shapes for multivariate images: Paths, traps, and pitfalls. , 2014, , .		6
49	Tree-Based Morse Regions: A Topological Approach to Local Feature Detection. IEEE Transactions on Image Processing, 2014, 23, 5612-5625.	6.0	41
50	A morphological method for music score staff removal. , 2014, , .		17
51	Efficient multiscale Sauvolaâ€™s binarization. International Journal on Document Analysis and Recognition, 2014, 17, 105-123.	2.7	48
52	Planting, Growing, and Pruning Trees: Connected Filters Applied to Document Image Analysis. , 2014, , .		10
53	A Comparative Review of Component Tree Computation Algorithms. IEEE Transactions on Image Processing, 2014, 23, 3885-3895.	6.0	158
54	Meaningful disjoint level lines selection. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
55	On Making nD Images Well-Composed by a Self-dual Local Interpolation. Lecture Notes in Computer Science, 2014, , 320-331.	1.0	7
56	Practical Genericity: Writing Image Processing Algorithms Both Reusable and Efficient. Lecture Notes in Computer Science, 2014, , 70-79.	1.0	2
57	A Quasi-linear Algorithm to Compute the Tree of Shapes of nD Images. Lecture Notes in Computer Science, 2013, , 98-110.	1.0	63
58	Salient level lines selection using the Mumford-Shah functional. , 2013, , .		15
59	Two Applications of Shape-Based Morphology: Blood Vessels Segmentation and a Generalization of Constrained Connectivity. Lecture Notes in Computer Science, 2013, , 390-401.	1.0	17
60	Discrete Set-Valued Continuity and Interpolation. Lecture Notes in Computer Science, 2013, , 37-48.	1.0	19
61	A Comparison of Many Max-tree Computation Algorithms. Lecture Notes in Computer Science, 2013, , 73-85.	1.0	15
62	Context-based energy estimator: Application to object segmentation on the tree of shapes. , 2012, , .		26
63	Writing Reusable Digital Topology Algorithms in a Generic Image Processing Framework. Lecture Notes in Computer Science, 2012, , 140-153.	1.0	9
64	The SCRIBO Module of the Olena Platform: A Free Software Framework for Document Image Analysis. , 2011, , .		26
65	Why and howto design a generic and efficient image processing framework: The case of the Milena library. , 2010, , .		16
66	Milena: Write Generic Morphological Algorithms Once, Run on Many Kinds of Images. Lecture Notes in Computer Science, 2009, , 295-306.	1.0	13
67	Fusion of spatial relationships for guiding recognition, example of brain structure recognition in 3D MRI. Pattern Recognition Letters, 2005, 26, 449-457.	2.6	35
68	Ruminations on Tarjanâ€™s Union-Find Algorithm and Connected Operators. , 2005, , 105-116.		8
69	Fast Road Network Extraction in Satellite Images Using Mathematical Morphology and Markov Random Fields. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.0	21
70	Representation and fusion of heterogeneous fuzzy information in the 3D space for model-based structural recognitionâ€™Application to 3D brain imaging. Artificial Intelligence, 2003, 148, 141-175.	3.9	52
71	Segmentation of Curvilinear Objects Using a-Watershed-Based Curve Adjacency Graph. Lecture Notes in Computer Science, 2003, , 279-286.	1.0	2
72	Continuous Well-Composedness Implies Digital Well-Composedness in n-D. Journal of Mathematical Imaging and Vision, 0, , .	0.8	0