Alexandre Xavier FalcÃ£o

List of Publications by Year
in descending order

| 223 papers | 6,390 citations | 87888

38 h-index | 85541

71 g-index |
|---|---|---|---|
| 229 all docs | 229 docs citations | 229 times ranked | 4509 citing authors |

#	Article	IF	Citations
1	Learning CNN Filters From User-Drawn Image Markers for Coconut-Tree Image Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	12
2	Theoretical background and related works. , 2022, , 5-54.		0
3	An iterative optimum-path forest framework for clustering. , 2022, , 175-216.		0
4	Future trends in optimum-path forest classification. , 2022, , 217-219.		0
5	Improving Deep Learning Projections byÂNeighborhood Analysis. Communications in Computer and Information Science, 2022, , 127-152.	0.5	2
6	Improving Automated Lung Segmentation in Ct Images by Adding Anomalies Adjacent to the Pleura. , 2022, , .		1
7	Rethinking interactive image segmentation: Feature space annotation. Pattern Recognition, 2022, 131, 108882.	8.1	4
8	OpenStreetMap: Challenges and Opportunities in Machine Learning and Remote Sensing. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 184-199.	9.6	60
9	Semi-automatic data annotation guided by feature space projection. Pattern Recognition, 2021, 109, 107612.	8.1	21
10	Focus-and-Context Skeleton-based Image Simplification using Saliency Maps. , 2021, , .		2
11	Combining Registration Errors and Supervoxel Classification for Unsupervised Brain Anomaly Detection. Communications in Computer and Information Science, 2021, , 140-164.	0.5	0
12	Convolutional neural network simplification with progressive retraining. Pattern Recognition Letters, 2021, 150, 235-241.	4.2	4
13	Dissolved air flotation as potential new mechanism for intestinal parasite diagnosis in feces. Acta Tropica, 2021, 224, 106137.	2.0	3
14	Graph-Based Supervoxel Computation from Iterative Spanning Forest. Lecture Notes in Computer Science, 2021, , 404-415.	1.3	3
15	Towards Interactive Image Segmentation by Dynamic and Iterative Spanning Forest. Lecture Notes in Computer Science, 2021, , 351-364.	1.3	6
16	Development of New Staining Procedures for Diagnosing <i>Cryptosporidium</i> spp. in Fecal Samples by Computerized Image Analysis. Microscopy and Microanalysis, 2021, 27, 1518-1528.	0.4	1
17	Automated Diagnostics: Advances in the Diagnosis of Intestinal Parasitic Infections in Humans and Animals. Frontiers in Veterinary Science, 2021, 8, 715406.	2.2	3
18	Semi-supervised Deep Learning Based onÂLabel Propagation inÂaÂ2D Embedded Space. Lecture Notes in Computer Science, 2021, , 371-381.	1.3	2

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19	Towards a Simple and Efficient Object-based Superpixel Delineation Framework. , 2021, , .		4
20	Iterative Pseudo-Labeling with Deep Feature Annotation and Confidence-Based Sampling. , 2021, , .		0
21	CNN Filter Learning from Drawn Markers for the Detection of Suggestive Signs of COVID-19 in CT Images. , 2021, 2021, 3169-3172.		1
22	An extension of the differential image foresting transform and its application to superpixel generation. Journal of Visual Communication and Image Representation, 2020, 71, 102748.	2.8	6
23	An Approach for Asbestos-related Pleural Plaque Detection. , 2020, 2020, 1343-1346.		3
24	Grabber: A tool to improve convergence in interactive image segmentation. Pattern Recognition Letters, 2020, 140, 267-273.	4.2	5
25	Investigating the impact of supervoxel segmentation for unsupervised abnormal brain asymmetry detection. Computerized Medical Imaging and Graphics, 2020, 85, 101770.	5.8	4
26	Automated diagnosis of intestinal parasites: A new hybrid approach and its benefits. Computers in Biology and Medicine, 2020, 123, 103917.	7.0	14
27	Superpixel Segmentation Using Dynamic and Iterative Spanning Forest. IEEE Signal Processing Letters, 2020, 27, 1440-1444.	3.6	17
28	Hierarchical learning using deep optimum-path forest. Journal of Visual Communication and Image Representation, 2020, 71, 102823.	2.8	5
29	Improving Lung Nodule Detection with Learnable Non-Maximum Suppression. , 2020, , .		4
30	Automated Diagnosis of Canine Gastrointestinal Parasites Using Image Analysis. Pathogens, 2020, 9, 139.	2.8	11
31	Image segmentation using dense and sparse hierarchies of superpixels. Pattern Recognition, 2020, 108, 107532.	8.1	18
32	A historical review of the techniques of recovery of parasites for their detection in human stools. Revista Da Sociedade Brasileira De Medicina Tropical, 2020, 53, e20190535.	0.9	20
33	BADRESC: Brain Anomaly Detection based on Registration Errors and Supervoxel Classification. , 2020, , .		3
34	Intestinal Parasites Classification Using Deep Belief Networks. Lecture Notes in Computer Science, 2020, , 242-251.	1.3	9
35	Improving Neural Network-based Multidimensional Projections. , 2020, , .		5
36	Feature Learning from Image Markers for Object Delineation. , 2020, , .		4

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37	An adaptive probabilistic atlas for anomalous brain segmentation in MR images. Medical Physics, 2019, 46, 4940-4950.	3.0	8
38	A Supervoxel-Based Approach for Unsupervised Abnormal Asymmetry Detection in Mr Images of the Brain. , 2019, , .		6
39	A methodology for generating four-dimensional arterial spin labeling MR angiography virtual phantoms. Medical Image Analysis, 2019, 56, 184-192.	11.6	2
40	ALTIS: A fast and automatic lung and trachea CTâ€image segmentation method. Medical Physics, 2019, 46, 4970-4982.	3.0	18
41	Use of the aqueous biphasic system as an alternative for concentration of <i>Ascaris lumbricoides</i> eggs, with nonâ€toxic separation of faecal residues and fats. Tropical Medicine and International Health, 2019, 24, 1320-1329.	2.3	4
42	Superpixel Segmentation by Object-Based Iterative Spanning Forest. Lecture Notes in Computer Science, 2019, , 334-341.	1.3	5
43	Graph-Based Image Segmentation Using Dynamic Trees. Lecture Notes in Computer Science, 2019, , 470-478.	1.3	13
44	The Role of Optimum Connectivity in Image Segmentation: Can the Algorithm Learn Object Information During the Process?. Lecture Notes in Computer Science, 2019, , 180-194.	1.3	4
45	TFâ€Test Quantified : a new technique for diagnosis of Schistosoma mansoni eggs. Tropical Medicine and International Health, 2019, 24, 586-595.	2.3	4
46	An Iterative Spanning Forest Framework for Superpixel Segmentation. IEEE Transactions on Image Processing, 2019, 28, 3477-3489.	9.8	53
47	Extending Supervoxel-based Abnormal Brain Asymmetry Detection to the Native Image Space. , 2019, 2019, 450-453.		2
48	Interactive Coconut Tree Annotation Using Feature Space Projections. , 2019, , .		3
49	A Methodology for Neural Network Architectural Tuning Using Activation Occurrence Maps. , 2019, , .		3
50	Long-Range Decoder Skip Connections: Exploiting Multi-Context Information for Cardiac Image Segmentation. , 2019, , .		1
51	The Importance of Object-Based Seed Sampling for Superpixel Segmentation. , 2019, , .		5
52	Segmentation-based blood flow parameter refinement in cerebrovascular structures using 4D arterial spin labeling MRA. IEEE Transactions on Biomedical Engineering, 2019, 67, 1-1.	4.2	1
53	Correcting rural building annotations in OpenStreetMap using convolutional neural networks. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 147, 283-293.	11.1	42
54	The Residual Center of Mass: An Image Descriptor for the Diagnosis of Alzheimer Disease. Neuroinformatics, 2019, 17, 307-321.	2.8	8

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55	Modeling normal brain asymmetry in MR images applied to anomaly detection without segmentation and data annotation. , 2019, , .		2
56	A computational method to aid the detection and annotation of pleural lesions in CT images of the thorax. , 2019, , .		2
57	The Effect of Labeling Duration and Temporal Resolution on Arterial Transit Time Estimation Accuracy in 4D ASL MRA Datasets - A Flow Phantom Study. Lecture Notes in Computer Science, 2019, , 141-148.	1.3	0
58	Learning Visual Dictionaries from Class-Specific Superpixel Segmentation. Lecture Notes in Computer Science, 2019, , 171-182.	1.3	1
59	Projections as visual aids for classification system design. Information Visualization, 2018, 17, 282-305.	1.9	32
60	Path-Value Functions for Which Dijkstraâ€™s Algorithm Returns Optimal Mapping. Journal of Mathematical Imaging and Vision, 2018, 60, 1025-1036.	1.3	50
61	Automatic Temporal Segmentation of Vessels of the Brain Using 4D ASL MRA Images. IEEE Transactions on Biomedical Engineering, 2018, 65, 1486-1494.	4.2	6
62	Semi-Supervised Learning with Interactive Label Propagation Guided by Feature Space Projections. , 2018, , .		11
63	RISF: Recursive Iterative Spanning Forest for Superpixel Segmentation. , 2018, , .		5
64	A Divide-and-Conquer Clustering Approach Based on Optimum-Path Forest. , 2018, , .		0
65	Delaunay Triangulation Data Augmentation Guided by Visual Analytics for Deep Learning. , 2018, , .		5
66	Correcting Misaligned Rural Building Annotations in Open Street Map Using Convolutional Neural Networks Evidence. , 2018, , .		7
67	Cell segmentation in 3D confocal images using supervoxel merge-forests with CNN-based hypothesis selection. , 2018, , .		18
68	Multi-label semi-supervised classification through optimum-path forest. Information Sciences, 2018, 465, 86-104.	6.9	22
69	SEGMENT3D: A web-based application for collaborative segmentation of 3D images used in the shoot apical meristem. , 2018, , .		6
70	Robust cerebrovascular segmentation in 4D ASL MRA images. , 2018, , .		1
71	Four-Dimensional ASL MR Angiography Phantoms with Noise Learned by Neural Styling. Lecture Notes in Computer Science, 2018, , 131-139.	1.3	1
72	Medical image registration based on watershed transform from greyscale marker and multi-scale parameter search. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 138-156.	1.9	8

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73	Vessel segmentation in 4D arterial spin labeling magnetic resonance angiography images of the brain. , 2017, , .		1
74	A multi-object statistical atlas adaptive for deformable registration errors in anomalous medical image segmentation. Proceedings of SPIE, 2017, , .	0.8	2
75	Vascular Segmentation in TOF MRA Images of the Brain Using a Deep Convolutional Neural Network. Lecture Notes in Computer Science, 2017, , 39-46.	1.3	21
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77	Optimum-Path Forest based on k-connectivity: Theory and applications. Pattern Recognition Letters, 2017, 87, 117-126.	4.2	43
78	Visualizing the Hidden Activity of Artificial Neural Networks. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 101-110.	4.4	198
79	Post classification smoothing in sub-decimeter resolution images with semi-supervised label propagation. , 2017, , .		0
80	Extending the Differential Image Foresting Transform to Root-Based Path-Cost Functions with Application to Superpixel Segmentation. , 2017, , .		5
81	Multiscale 2D medial axes and 3D surface skeletons by the image foresting transform. , 2017, , 43-70.		4
82	A Supervoxel-Based Solution to Resume Segmentation for Interactive Correction by Differential Image-Foresting Transforms. Lecture Notes in Computer Science, 2017, , 107-118.	1.3	4
83	HIGH PREVALENCE OF Blastocystis spp. INFECTION IN CHILDREN AND STAFF MEMBERS ATTENDING PUBLIC URBAN SCHOOLS IN SÃƒO PAULO STATE, BRAZIL. Revista Do Instituto De Medicina Tropical De Sao Paulo, 2016, 58, 31.	1.1	22
84	TF‑Test Modified: New Diagnostic Tool for Human Enteroparasitosis. Journal of Clinical Laboratory Analysis, 2016, 30, 293-300.	2.1	16
85	Learning to Classify Seismic Images with Deep Optimum-Path Forest. , 2016, , .		3
86	Interactive Medical Image Segmentation by Statistical Seed Models. , 2016, , .		3
87	Validation of a new technique to detect Cryptosporidium spp. oocysts in bovine feces. Preventive Veterinary Medicine, 2016, 134, 1-5.	1.9	9
88	Evolving technologies for growing, imaging and analyzing 3D root system architecture of crop plants. Journal of Integrative Plant Biology, 2016, 58, 230-241.	8.5	43
89	Improving semi-supervised learning through optimum connectivity. Pattern Recognition, 2016, 60, 72-85.	8.1	44
90	Genome-wide association and high-resolution phenotyping link Oryza sativa panicle traits to numerous trait-specific QTL clusters. Nature Communications, 2016, 7, 10527.	12.8	165

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92	Medical image segmentation via atlases and fuzzy object models: Improving efficacy through optimum object search and fewer models. Medical Physics, 2015, 43, 401-410.	3.0	15
93	Choosing the Most Effective Pattern Classification Model under Learning-Time Constraint. PLoS ONE, 2015, 10, e0129947.	2.5	10
94	Comparative study of five techniques for the diagnosis of canine gastrointestinal parasites. Brazilian Journal of Veterinary Parasitology, 2015, 24, 223-226.	0.7	9
95	Contextual superpixel description for remote sensing image classification. , 2015, , .		11
96	An Approach to Iris Contact Lens Detection Based on Deep Image Representations. , 2015, , .		41
97	IFT-SLIC: A General Framework for Superpixel Generation Based on Simple Linear Iterative Clustering and Image Foresting Transform. , 2015, , .		19
98	Improving land cover classification through contextual-based optimum-path forest. Information Sciences, 2015, 324, 60-87.	6.9	18
99	Medical image segmentation using object atlas versus object cloud models. , 2015, , .		1
100	Deep Representations for Iris, Face, and Fingerprint Spoofing Detection. IEEE Transactions on Information Forensics and Security, 2015, 10, 864-879.	6.9	405
101	Robust active learning for the diagnosis of parasites. Pattern Recognition, 2015, 48, 3572-3583.	8.1	34
102	A nature-inspired approach to speed up optimum-path forest clustering and its application to intrusion detection in computer networks. Information Sciences, 2015, 294, 95-108.	6.9	54
103	Medical image segmentation using Object Shape Models: A critical review on recent trends, and alternative directions. , 2015, , 9-15.		3
104	Swarm-based Descriptor Combination and its Application for Image Classification. Electronic Letters on Computer Vision and Image Analysis, 2015, 13, .	0.6	1
105	Duplicate and Conquer: Multiple Homologs of *PHOSPHORUS-STARVATION TOLERANCE1* Enhance Phosphorus Acquisition and Sorghum Performance on Low-Phosphorus Soils Â Â Â. Plant Physiology, 2014, 166, 659-677.	4.8	117
106	High-Resolution Inflorescence Phenotyping Using a Novel Image-Analysis Pipeline, PANorama Â Â. Plant Physiology, 2014, 165, 479-495.	4.8	63
107	On the Training of Artificial Neural Networks with Radial Basis Function Using Optimum-Path Forest Clustering. , 2014, , .		11
108	Active Semi-supervised Learning Using Optimum-Path Forest. , 2014, , .		2

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109	Robot users for the evaluation of boundary-tracking approaches in interactive image segmentation. , 2014, , .		3
110	Vehicle License Plate Recognition With Random Convolutional Networks. , 2014, , .		23
111	Superpixel-Based Interactive Classification of Very High Resolution Images. , 2014, , .		7
112	Hybrid Approaches for Interactive Image Segmentation Using the Live Markers Paradigm. IEEE Transactions on Image Processing, 2014, 23, 5756-5769.	9.8	21
113	Efficient and Effective Hierarchical Feature Propagation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4632-4643.	4.9	14
114	Learning Person-Specific Representations From Faces in the Wild. IEEE Transactions on Information Forensics and Security, 2014, 9, 2089-2099.	6.9	30
115	Semi-supervised Pattern Classification Using Optimum-Path Forest. , 2014, , .		8
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117	Toward Satellite-Based Land Cover Classification Through Optimum-Path Forest. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6075-6085.	6.3	21
118	An active learning paradigm based on a priori data reduction and organization. Expert Systems With Applications, 2014, 41, 6086-6097.	7.6	14
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120	Body-wide hierarchical fuzzy modeling, recognition, and delineation of anatomy in medical images. Medical Image Analysis, 2014, 18, 752-771.	11.6	81
121	Detection of tooth fractures in CBCT images using attention index estimation. , 2014, , .		0
122	Improving Atlas-Based Medical Image Segmentation with a Relaxed Object Search. Lecture Notes in Computer Science, 2014, , 152-163.	1.3	2
123	Differential and Relaxed Image Foresting Transform for Graph-Cut Segmentation of Multiple 3D Objects. Lecture Notes in Computer Science, 2014, 17, 690-697.	1.3	0
124	Interactive Multiscale Classification of High-Resolution Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 2020-2034.	4.9	32
125	Computer techniques towards the automatic characterization of graphite particles in metallographic images of industrial materials. Expert Systems With Applications, 2013, 40, 590-597.	7.6	50
126	Automated diagnosis of human intestinal parasites using optical microscopy images. , 2013, , .		18

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127	A data reduction and organization approach for efficient image annotation. , 2013, , .		7
128	Interactive Segmentation by Image Foresting Transform on Superpixel Graphs. , 2013, , .		11
129	Joint graph cut and relative fuzzy connectedness image segmentation algorithm. Medical Image Analysis, 2013, 17, 1046-1057.	11.6	39
130	Segmentation of sandstone thin section images with separation of touching grains using optimum path forest operators. Computers and Geosciences, 2013, 57, 146-157.	4.2	27
131	Automatic Segmentation and Classification of Human Intestinal Parasites From Microscopy Images. IEEE Transactions on Biomedical Engineering, 2013, 60, 803-812.	4.2	61
132	3-D examination of dental fractures with minimum user intervention. Proceedings of SPIE, 2013, , .	0.8	2
133	Remote sensing image representation based on hierarchical histogram propagation. , 2013, , .		2
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135	Optimizing Contextual-Based Optimum-Forest Classification through Swarm Intelligence. Lecture Notes in Computer Science, 2013, , 203-214.	1.3	3
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141	Fuzzy Connectedness Image Segmentation in Graph Cut Formulation: A Linear-Time Algorithm and a Comparative Analysis. Journal of Mathematical Imaging and Vision, 2012, 44, 375-398.	1.3	63
142	Unraveling the Compromise between Skull Stripping and Inhomogeneity Correction in 3T MR Images. , 2012, , .		7
143	New Insights on Nontechnical Losses Characterization Through Evolutionary-Based Feature Selection. IEEE Transactions on Power Delivery, 2012, 27, 140-146.	4.3	52
144	Multiscale Classification of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3764-3775.	6.3	55

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145	A unifying graph-cut image segmentation framework: algorithms it encompasses and equivalences among them. Proceedings of SPIE, 2012, , .	0.8	17
146	Brain tissue MR-image segmentation via optimum-path forest clustering. Computer Vision and Image Understanding, 2012, 116, 1047-1059.	4.7	34
147	Riverbed: A Novel User-Steered Image Segmentation Method Based on Optimum Boundary Tracking. IEEE Transactions on Image Processing, 2012, 21, 3042-3052.	9.8	41
148	IFTrace: Video segmentation of deformable objects using the Image Foresting Transform. Computer Vision and Image Understanding, 2012, 116, 274-291.	4.7	6
149	Incorporating multiple distance spaces in optimum-path forest classification to improve feedback-based learning. Computer Vision and Image Understanding, 2012, 116, 510-523.	4.7	16
150	Efficient supervised optimum-path forest classification for large datasets. Pattern Recognition, 2012, 45, 512-520.	8.1	210
151	Person-Specific Subspace Analysis for Unconstrained Familiar Face Identification. , 2012, , .		6
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153	Elucidating the Relations among Seeded Image Segmentation Methods and their Possible Extensions. , 2011, , .		7
154	Person-specific face representation for recognition. , 2011, , .		3
155	Optimum-Path Forest Pruning Parameter Estimation through Harmony Search. , 2011, , .		2
156	Feature selection through gravitational search algorithm. , 2011, , .		37
157	A New Approach for Nontechnical Losses Detection Based on Optimum-Path Forest. IEEE Transactions on Power Systems, 2011, 26, 181-189.	6.5	101
158	A novel algorithm for feature selection using Harmony Search and its application for non-technical losses detection. Computers and Electrical Engineering, 2011, 37, 886-894.	4.8	103
159	Active learning paradigms for CBIR systems based on optimum-path forest classification. Pattern Recognition, 2011, 44, 2971-2978.	8.1	43
160	Improving Parkinson's disease identification through evolutionary-based feature selection. , 2011, 2011, 7857-60.		35
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165	Comparison of fuzzy connectedness and graph cut segmentation algorithms. Proceedings of SPIE, 2011, , .	0.8	11
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168	User-Steered Image Segmentation Using Live Markers. Lecture Notes in Computer Science, 2011, , 211-218.	1.3	6
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170	Shape feature extraction and description based on tensor scale. Pattern Recognition, 2010, 43, 26-36.	8.1	49
171	Robust Pruning of Training Patterns for Optimum-Path Forest Classification Applied to Satellite-Based Rainfall Occurrence Estimation. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 396-400.	3.1	20
172	Spoken emotion recognition through optimum-path forest classification using glottal features. Computer Speech and Language, 2010, 24, 445-460.	4.3	70
173	Synergistic arc-weight estimation for interactive image segmentation using graphs. Computer Vision and Image Understanding, 2010, 114, 85-99.	4.7	52
174	Robust and fast Vowel Recognition Using Optimum-Path Forest. , 2010, , .		2
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177	Intelligent Understanding of User Input Applied to Arc-Weight Estimation for Graph-Based Foreground Segmentation. , 2010, , .		3
178	Fast Automatic Microstructural Segmentation of Ferrous Alloy Samples Using Optimum-Path Forest. Lecture Notes in Computer Science, 2010, , 210-220.	1.3	4
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182	Optimum-Path Forest-Based Rainfall Estimation. , 2009, , .		4
183	Supervised pattern classification based on optimumâ€path forest. International Journal of Imaging Systems and Technology, 2009, 19, 120-131.	4.1	325
184	Data clustering as an optimumâ€path forest problem with applications in image analysis. International Journal of Imaging Systems and Technology, 2009, 19, 50-68.	4.1	98
185	A genetic programming framework for content-based image retrieval. Pattern Recognition, 2009, 42, 283-292.	8.1	145
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188	Fast and accurate holistic face recognition using Optimum-Path Forest. , 2009, , .		9
189	Cloud bank: A multiple clouds model and its use in MR brain image segmentation. , 2009, , .		28
190	Fast Non-Technical Losses Identification Through Optimum-Path Forest. , 2009, , .		19
191	A Comparative Study among Pattern Classifiers in Interactive Image Segmentation. , 2009, , .		1
192	Fast and Robust Object Tracking Using Image Foresting Transform. , 2009, , .		2
193	A Learning Algorithm for the Optimum-Path Forest Classifier. Lecture Notes in Computer Science, 2009, , 195-204.	1.3	9
194	On the Training Patterns Pruning for Optimum-Path Forest. Lecture Notes in Computer Science, 2009, , 259-268.	1.3	2
195	Novel Approaches for Exclusive and Continuous Fingerprint Classification. Lecture Notes in Computer Science, 2009, , 386-397.	1.3	2
196	Clustering by optimum path forest and its application to automatic GM/WM classification in MR-T1 images of the brain. , 2008, , .		7
197	Clouds: A model for synergistic image segmentation. , 2008, , .		10
198	Oropharyngeal dysphagia identification using wavelets and optimum path forest. , 2008, , .		6

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200	A Fast and Automatic Method for 3D Rigid Registration of MR Images of the Human Brain. , 2008, , .		2
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