Ricardo da Silva Torres

List of Publications by Year
in descending order

182 papers	3,402 citations	159585 30 h-index	206112 48 g-index
187 all docs	187 docs citations	187 times ranked	2850 citing authors

#	Article	IF	Citations
1	Comparative study of global color and texture descriptors for web image retrieval. Journal of Visual Communication and Image Representation, 2012, 23, 359-380.	2.8	204
2	Nearest neighbors distance ratio open-set classifier. Machine Learning, 2017, 106, 359-386.	5.4	149
3	A genetic programming framework for content-based image retrieval. Pattern Recognition, 2009, 42, 283-292.	8.1	145
4	VISON: VIdeo Summarization for ONline applications. Pattern Recognition Letters, 2012, 33, 397-409.	4.2	105
5	A graph-based approach for multiscale shape analysis. Pattern Recognition, 2004, 37, 1163-1174.	8.1	86
6	Contour salience descriptors for effective image retrieval and analysis. Image and Vision Computing, 2007, 25, 3-13.	4.5	84
7	Illuminant-Based Transformed Spaces for Image Forensics. IEEE Transactions on Information Forensics and Security, 2016, 11, 720-733.	6.9	75
8	Image re-ranking and rank aggregation based on similarity of ranked lists. Pattern Recognition, 2013, 46, 2350-2360.	8.1	74
9	Using phenological cameras to track the green up in a cerrado savanna and its on-the-ground validation. Ecological Informatics, 2014, 19, 62-70.	5.2	65
10	Visual word spatial arrangement for image retrieval and classification. Pattern Recognition, 2014, 47, 705-720.	8.1	63
11	A scalable re-ranking method for content-based image retrieval. Information Sciences, 2014, 265, 91-104.	6.9	61
12	Nature-Inspired Framework for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2126-2137.	6.3	60
13	Introducing digital cameras to monitor plant phenology in the tropics: applications for conservation. Perspectives in Ecology and Conservation, 2017, 15, 82-90.	1.9	60
14	Multiscale Classification of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3764-3775.	6.3	55
15	Exploiting ConvNet Diversity for Flooding Identification. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1446-1450.	3.1	51
16	Shape feature extraction and description based on tensor scale. Pattern Recognition, 2010, 43, 26-36.	8.1	49
17	Online video summarization on compressed domain. Journal of Visual Communication and Image Representation, 2013, 24, 729-738.	2.8	49
18	Graph-based bag-of-words for classification. Pattern Recognition, 2018, 74, 266-285.	8.1	48

#	ARTICLE	IF	CITATIONS
19	Digital Library Technologies: Complex Objects, Annotation, Ontologies, Classification, Extraction, and Security. Synthesis Lectures on Information Concepts, Retrieval, and Services, 2014, 6, 1-205.	0.7	47
20	Semi-supervised transfer subspace for domain adaptation. Pattern Recognition, 2018, 75, 235-249.	8.1	46
21	Learning to rank for content-based image retrieval. , 2010, , .		44
22	A framework for selection and fusion of pattern classifiers in multimedia recognition. Pattern Recognition Letters, 2014, 39, 52-64.	4.2	43
23	Unsupervised manifold learning using Reciprocal kNN Graphs in image re-ranking and rank aggregation tasks. Image and Vision Computing, 2014, 32, 120-130.	4.5	42
24	On the classification of fog computing applications: A machine learning perspective. Journal of Network and Computer Applications, 2020, 159, 102596.	9.1	40
25	Exploiting pairwise recommendation and clustering strategies for image re-ranking. Information Sciences, 2012, 207, 19-34.	6.9	39
26	Wavelet-based fingerprint image retrieval. Journal of Computational and Applied Mathematics, 2009, 227, 294-307.	2.0	37
27	Automatic identification of fruit flies (Diptera: Tephritidae). Journal of Visual Communication and Image Representation, 2014, 25, 1516-1527.	2.8	35
28	Classification of Crops, Pastures, and Tree Plantations along the Season with Multi-Sensor Image Time Series in a Subtropical Agricultural Region. Remote Sensing, 2019, 11, 334.	4.0	35
29	Applying machine learning based on multiscale classifiers to detect remote phenology patterns in Cerrado savanna trees. Ecological Informatics, 2014, 23, 49-61.	5.2	34
30	Bug report severity level prediction in open source software: A survey and research opportunities. Information and Software Technology, 2019, 115, 58-78.	4.4	33
31	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
32	Comparison of video sequences with histograms of motion patterns. , 2011, , .		31
33	KGen: a knowledge graph generator from biomedical scientific literature. BMC Medical Informatics and Decision Making, 2020, 20, 314.	3.0	31
34	Exploring digital libraries. , 2006, , .		30
35	A correlation graph approach for unsupervised manifold learning in image retrieval tasks. Neurocomputing, 2016, 208, 66-79.	5.9	30
36	Pixel-Level Tissue Classification for Ultrasound Images. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 256-267.	6.3	30

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37	A visual approach for video geocoding using bag-of-scenes. , 2012, , .		29
38	A digital library framework for biodiversity information systems. International Journal on Digital Libraries, 2006, 6, 3-17.	1.5	28
39	Automatic Classifier Fusion for Produce Recognition. , 2012, , .		28
40	Rapid Video Summarization on Compressed Video. , 2010, , .		27
41	Approximate similarity search for online multimedia services on distributed CPU–GPU platforms. VLDB Journal, 2014, 23, 427-448.	4.1	25
42	Litter Detection with Deep Learning: A Comparative Study. Sensors, 2022, 22, 548.	3.8	25
43	Fusion of time series representations for plant recognition in phenology studies. Pattern Recognition Letters, 2016, 83, 205-214.	4.2	24
44	Multimedia Retrieval Through Unsupervised Hypergraph-Based Manifold Ranking. IEEE Transactions on Image Processing, 2019, 28, 5824-5838.	9.8	24
45	Leafing Patterns and Drivers across Seasonally Dry Tropical Communities. Remote Sensing, 2019, 11, 2267.	4.0	24
46	Exploiting contextual spaces for image re-ranking and rank aggregation. , 2011, , .		22
47	Deriving vegetation indices for phenology analysis using genetic programming. Ecological Informatics, 2015, 26, 61-69.	5.2	22
48	Detecting face presentation attacks in mobile devices with a patch-based CNN and a sensor-aware loss function. PLoS ONE, 2020, 15, e0238058.	2.5	22
49	Rotation-Invariant and Scale-Invariant Steerable Pyramid Decomposition for Texture Image Retrieval. , 2007, , .		21
50	Phenological visual rhythms: Compact representations for fine-grained plant species identification. Pattern Recognition Letters, 2016, 81, 90-100.	4.2	20
51	Image-Based Time Series Representations for Pixelwise Eucalyptus Region Classification: A Comparative Study. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1450-1454.	3.1	20
52	Exploring the determinants of success in different clusters of ball possession sequences in soccer. Research in Sports Medicine, 2020, 28, 339-350.	1.3	20
53	Exploiting contextual information for image re-ranking and rank aggregation. International Journal of Multimedia Information Retrieval, 2012, 1, 115-128.	5.2	19
54	Color Descriptors for Web Image Retrieval: A Comparative Study. , 2008, , .		18

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55	Making colors worth more than a thousand words. , 2008, , .		18
56	Multimodal retrieval with relevance feedback based on genetic programming. Multimedia Tools and Applications, 2014, 69, 991-1019.	3.9	18
57	Learning How to Extract Rotation-Invariant and Scale-Invariant Features from Texture Images. Eurasip Journal on Advances in Signal Processing, 2008, 2008, .	1.7	17
58	Hierarchical Clustering-Based Graphs for Large Scale Approximate Nearest Neighbor Search. Pattern Recognition, 2019, 96, 106970.	8.1	17
59	Accuracy and limitations for spectroscopic prediction of leaf traits in seasonally dry tropical environments. Remote Sensing of Environment, 2020, 244, 111828.	11.0	17
60	Exploiting clustering approaches for image re-ranking. Journal of Visual Languages and Computing, 2011, 22, 453-466.	1.8	16
61	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
62	Mid-level image representations for real-time heart view plane classification of echocardiograms. Computers in Biology and Medicine, 2015, 66, 66-81.	7.0	16
63	Unsupervised Distance Learning for Plant Species Identification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5325-5338.	4.9	16
64	A graph-based ranked-list model for unsupervised distance learning on shape retrieval. Pattern Recognition Letters, 2016, 83, 357-367.	4.2	15
65	Data-Fusion Techniques for Open-Set Recognition Problems. IEEE Access, 2018, 6, 21242-21265.	4.2	15
66	Performance-level indicators of male elite handball teams. International Journal of Performance Analysis in Sport, 2020, 20, 1-9.	1.1	15
67	Robust Estimation of Camera Motion Using Optical Flow Models. Lecture Notes in Computer Science, 2009, , 435-446.	1.3	15
68	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
69	Unsupervised Distance Learning By Reciprocal kNN Distance for Image Retrieval. , 2014, , .		14
70	Remote Sensing Image Classification Using Genetic-Programming-Based Time Series Similarity Functions. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1499-1503.	3.1	14
71	Color and texture applied to a signature-based bag of visual words method for image retrieval. Multimedia Tools and Applications, 2017, 76, 16855-16872.	3.9	14
72	A Soft Computing Framework for Image Classification Based on Recurrence Plots. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 320-324.	3.1	14

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73	Exploiting Contextual Information for Image Re-ranking. Lecture Notes in Computer Science, 2010, , 541-548.	1.3	13
74	A signature-based bag of visual words method for image indexing and search. Pattern Recognition Letters, 2015, 65, 1-7.	4.2	13
75	A multimodal query expansion based on genetic programming for visually-oriented e-commerce applications. Information Processing and Management, 2016, 52, 783-800.	8.6	13
76	A Multirepresentational Fusion of Time Series for Pixelwise Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4399-4409.	4.9	13
77	On interactive learning-to-rank for IR: Overview, recent advances, challenges, and directions. Neurocomputing, 2016, 208, 3-24.	5.9	12
78	Relationship between maximal aerobic power with aerobic fitness as a function of signal-to-noise ratio. Journal of Applied Physiology, 2020, 129, 522-532.	2.5	12
79	A BFS-Tree of ranking references for unsupervised manifold learning. Pattern Recognition, 2021, 111, 107666.	8.1	12
80	Modeling plant phenology database: Blending near-surface remote phenology with on-the-ground observations. Ecological Engineering, 2016, 91, 396-408.	3.6	11
81	Time series-based classifier fusion for fine-grained plant species recognition. Pattern Recognition Letters, 2016, 81, 101-109.	4.2	11
82	Spatio-Temporal Vegetation Pixel Classification by Using Convolutional Networks. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1665-1669.	3.1	11
83	Comparing CAM Algorithms for the Identification of Salient Image Features in Iconography Artwork Analysis. Journal of Imaging, 2021, 7, 106.	3.0	11
84	Pelee-Text++: A Tiny Neural Network for Scene Text Detection. IEEE Access, 2020, 8, 223172-223188.	4.2	11
85	Combining Global with Local Texture Information for Image Retrieval Applications. , 2008, , .		10
86	A Genetic Programming Approach for Relevance Feedback in Region-Based Image Retrieval Systems. , 2008, , .		10
87	Exploiting contextual information for rank aggregation. , 2011, , .		10
88	Remote phenology: Applying machine learning to detect phenological patterns in a cerrado savanna. , 2012, , .		10
89	Effective, Efficient, and Scalable Unsupervised Distance Learning in Image Retrieval Tasks. , 2015, , .		10
90	Unsupervised graph-based rank aggregation for improved retrieval. Information Processing and Management, 2019, 56, 1260-1279.	8.6	10

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91	Eva. , 2010, , .		9
92	Towards vegetation species discrimination by using data-driven descriptors. , 2016, , .		9
93	Superimposed Image Description and Retrieval for Fish Species Identification. Lecture Notes in Computer Science, 2009, , 285-296.	1.3	9
94	Encoding Spatial Arrangement of Visual Words. Lecture Notes in Computer Science, 2011, , 240-247.	1.3	9
95	Analysis of Match Dynamics of Different Soccer Competition Levels Based on The Player Dyads. Journal of Human Kinetics, 2019, 70, 173-182.	1.5	9
96	Automatic Markerless Motion Detector Method against Traditional Digitisation for 3-Dimensional Movement Kinematic Analysis of Ball Kicking in Soccer Field Context. International Journal of Environmental Research and Public Health, 2022, 19, 1179.	2.6	9
97	A relevance feedback approach for the author name disambiguation problem. , 2013, , .		8
98	Unsupervised rank diffusion for content-based image retrieval. Neurocomputing, 2017, 260, 478-489.	5.9	8
99	Non-Technical Loss Detection in Power Grid Using Information Retrieval Approaches: A Comparative Study. IEEE Access, 2021, 9, 40635-40648.	4.2	8
100	Image Re-ranking and Rank Aggregation Based on Similarity of Ranked Lists. Lecture Notes in Computer Science, 2011, , 369-376.	1.3	8
101	Classifier Selection Based on the Correlation of Diversity Measures: When Fewer Is More. , 2013, , .		7
102	Plant Species Identification with Phenological Visual Rhythms. , 2013, , .		7
103	Using contextual spaces for image re-ranking and rank aggregation. Multimedia Tools and Applications, 2014, 69, 689-716.	3.9	7
104	A semi-supervised learning algorithm for relevance feedback and collaborative image retrieval. Eurasip Journal on Image and Video Processing, 2015, 2015, .	2.6	7
105	Semantic segmentation of vegetation images acquired by unmanned aerial vehicles using an ensemble of ConvNets. , 2017, , .		7
106	Automatic fusion of region-based classifiers for coffee crop recognition. , 2012, , .		6
107	Shape-based time series analysis for remote phenology studies. , 2013, , .		6
108	Visual rhythm-based time series analysis for phenology studies. , 2013, , .		6

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109	A rank aggregation framework for video multimodal geocoding. Multimedia Tools and Applications, 2014, 73, 1323-1359.	3.9	6
110	TSS & TSB: Tensor scale descriptors within circular sectors for fast shape retrieval. Pattern Recognition Letters, 2016, 83, 303-311.	4.2	6
111	PhenoVis â€" A tool for visual phenological analysis of digital camera images using chronological percentage maps. Information Sciences, 2016, 372, 181-195.	6.9	6
112	Diversity-based interactive learning meets multimodality. Neurocomputing, 2017, 259, 159-175.	5.9	6
113	Sentinel plants as programmable processing units: insights from a multidisciplinary perspective about stress memory and plant signaling and their relevance at community level. Plant Signaling and Behavior, 2018, 13, e1526001.	2.4	6
114	Graph visual rhythms in temporal network analyses. Graphical Models, 2019, 103, 101021.	2.4	6
115	Interactive Classification of Remote Sensing Images by Using Optimum-Path Forest and Genetic Programming. Lecture Notes in Computer Science, 2011, , 300-307.	1.3	6
116	A Soft Computing Approach for Learning to Aggregate Rankings. , 2015, , .		6
117	Evaluation of Time Series Distance Functions in the Task of Detecting Remote Phenology Patterns. , 2014, , .		5
118	Rank Diffusion for Context-Based Image Retrieval. , 2016, , .		5
119	Learning cost function for graph classification with open-set methods. Pattern Recognition Letters, 2019, 128, 8-15.	4.2	5
120	Bag of textual graphs (BoTG): A general graphâ€based text representation model. Journal of the Association for Information Science and Technology, 2019, 70, 817-829.	2.9	5
121	A Soft Computing Approach for Selecting and Combining Spectral Bands. Remote Sensing, 2020, 12, 2267.	4.0	5
122	MONORAIL: A Disk-Friendly Index for Huge Descriptor Databases. , 2010, , .		4
123	Image Re-ranking Acceleration on GPUs. , 2013, , .		4
124	Evaluation of parameters for combining multiple textual sources of evidence for Web image retrieval using genetic programming. Journal of the Brazilian Computer Society, 2013, 19, 147-160.	1.3	4
125	Unsupervised Effectiveness Estimation for Image Retrieval Using Reciprocal Rank Information. , 2015, , .		4
126	Walking and health: an enactive affective system. Digital Creativity, 2016, 27, 314-333.	1.6	4

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127	Combining re-ranking and rank aggregation methods for image retrieval. Multimedia Tools and Applications, 2016, 75, 9121-9144.	3.9	4
128	Multivariate cyclical data visualization using radial visual rhythms: A case study in phenology analysis. Ecological Informatics, 2018, 46, 19-35.	5.2	4
129	Tucumã: A toolbox for spatiotemporal remote sensing image analysis [Software and Data Sets]. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 110-122.	9.6	4
130	Relevance prediction in similarity-search systems using extreme value theory. Journal of Visual Communication and Image Representation, 2019, 60, 236-249.	2.8	4
131	Pelee-Text: A Tiny Convolutional Neural Network for Multi-oriented Scene Text Detection. , 2019, , .		4
132	On the Fusion of Text Detection Results: A Genetic Programming Approach. IEEE Access, 2020, 8, 81257-81270.	4.2	4
133	On the prediction of long-lived bugs: An analysis and comparative study using FLOSS projects. Information and Software Technology, 2021, 132, 106508.	4.4	4
134	MobText: A Compact Method for Scene Text Localization. , 2020, , .		4
135	Sport action mining: Dribbling recognition in soccer. Multimedia Tools and Applications, 2022, 81, 4341-4364.	3.9	4
136	Complex Network Model Reveals the Impact of Inspiratory Muscle Pre-Activation on Interactions among Physiological Responses and Muscle Oxygenation during Running and Passive Recovery. Biology, 2022, 11, 963.	2.8	4
137	From concepts to implementation and visualization. , 2008, , .		3
138	Adaptive parallel approximate similarity search for responsive multimedia retrieval. , 2011, , .		3
139	Semi-supervised Learning for Relevance Feedback on Image Retrieval Tasks. , 2014, , .		3
140	Change Frequency Heatmaps for Temporal Multivariate Phenological Data Analysis. , 2017, , .		3
141	On the ensemble of multiscale object-based classifiers for aerial images: a comparative study. Multimedia Tools and Applications, 2018, 77, 24565-24592.	3.9	3
142	Event Prediction Based on Unsupervised Graph-Based Rank-Fusion Models. Lecture Notes in Computer Science, 2019, , 88-98.	1.3	3
143	A unified model for accelerating unsupervised iterative re-ranking algorithms. Concurrency Computation Practice and Experience, 2020, 32, e5702.	2.2	3
144	FISIR: A Flexible Framework for Interactive Search in Image Retrieval Systems. Lecture Notes in Computer Science, 2015, , 335-347.	1.3	3

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145	Combining Re-Ranking and Rank Aggregation Methods. Lecture Notes in Computer Science, 2012, , 170-178.	1.3	3
146	SIERRA â€" A Superimposed Application for Enhanced Image Description and Retrieval. Lecture Notes in Computer Science, 2006, , 540-543.	1.3	3
147	Annotating data to support decision-making. , 2010, , .		3
148	Twoâ€tiered face verification with lowâ€memory footprint for mobile devices. IET Biometrics, 2020, 9, 205-215.	2.5	3
149	Species identification. , 2009, , .		2
150	Diversity-driven learning for multimodal image retrieval with relevance feedback. , 2014, , .		2
151	Contextual Spaces Reâ€Ranking: accelerating the Reâ€sort Ranked Lists step on heterogeneous systems. Concurrency Computation Practice and Experience, 2017, 29, e3962.	2.2	2
152	Kuaa: A unified framework for design, deployment, execution, and recommendation of machine learning experiments. Future Generation Computer Systems, 2018, 78, 59-76.	7.5	2
153	Graph-Based Early-Fusion for Flood Detection. , 2018, , .		2
154	A Genetic Programming Approach for Searching on Nearest Neighbors Graphs. , 2019, , .		2
155	Neural relational inference for disaster multimedia retrieval. Multimedia Tools and Applications, 2020, 79, 26735-26746.	3.9	2
156	Characterization and analyses of dribbling actions in soccer: a novel definition and effectiveness of dribbles in the 2018 FIFA World Cup RussiaTM. Human Movement, 0, , .	0.9	2
157	Measuring Economic Activity From Space: A Case Study Using Flying Airplanes and COVID-19. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 7213-7224.	4.9	2
158	Multiscale fractal dimension applied to tactical analysis in football: A novel approach to evaluate the shapes of team organization on the pitch. PLoS ONE, 2021, 16, e0256771.	2.5	2
159	Classification and determinants of passing difficulty in soccer: a multivariate approach. Science and Medicine in Football, 2022, 6, 483-493.	2.0	2
160	Reusing a compound-based infrastructure for searching video stories. , 2011, , .		1
161	Unsupervised Measures for Estimating the Effectiveness of Image Retrieval Systems. , 2013, , .		1
162	A Multiple Labeling-Based Optimum-Path Forest for Video Content Classification. , 2013, , .		1

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163	Domain-specific image geocoding. , 2013, , .		1
164	SuperIDR: A Tool for Fish Identification and Information Retrieval. Fisheries, 2013, 38, 65-75.	0.8	1
165	Phenological Event Detection by Visual Rhythms Dissimilarity Analysis. , 2014, , .		1
166	Fusion of genetic-programming-based indices in hyperspectral image classification tasks. , 2017, , .		1
167	Application-Oriented Retinal Image Models for Computer Vision. Sensors, 2020, 20, 3746.	3.8	1
168	A Change-Driven Image Foveation Approach for Tracking Plant Phenology. Remote Sensing, 2020, 12, 1409.	4.0	1
169	Principled Interpolation in Normalizing Flows. Lecture Notes in Computer Science, 2021, , 116-131.	1.3	1
170	Contextual movement models based on normalizing flows. AStA Advances in Statistical Analysis, 0, , 1.	0.9	1
171	Navigating Through Video Stories Using Clustering Sets. International Journal of Multimedia Data Engineering and Management, 2011, 2, 1-20.	0.4	1
172	Learning Cost Functions for Graph Matching. Lecture Notes in Computer Science, 2018, , 345-354.	1.3	1
173	A genetic programming approach for searching on nearest neighbors graphs. Multimedia Tools and Applications, 2022, 81, 23449-23472.	3.9	1
174	TIDESâ€"a new descriptor for time series oscillation behavior. GeoInformatica, 2011, 15, 75-109.	2.7	0
175	Guest Editorial: Image and Video Processing and Analysis. Journal of Mathematical Imaging and Vision, 2013, 45, 199-199.	1.3	0
176	A formal approach for the specification of digital complex objects. , 2013, , .		0
177	RadialPheno: A tool for nearâ€surface phenology analysis through radial layouts. Applications in Plant Sciences, 2019, 7, e01253.	2.1	0
178	A genetic algorithm approach for image representation learning through color quantization. Multimedia Tools and Applications, 2021, 80, 15315-15350.	3.9	0
179	User-Oriented Evaluation of Color Descriptors for Web Image Retrieval. Lecture Notes in Computer Science, 2010, , 486-489.	1.3	0
180	Navigating through Video Stories Using Clustering Sets. , 2013, , 96-113.		0

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181	Guidelines for Evaluating Mobile Applications: A Semiotic-Informed Approach. Lecture Notes in Business Information Processing, 2015, , 529-554.	1.0	0
182	Cognitive Control-Loop for Elastic Optical Networks with Space-Division Multiplexing. Sensors, 2021, 21, 7821.	3.8	0