Benjamin Bustos

List of Publications by Year
in descending order

77 papers	1,897 citations	566801 15 h-index
40 g-index	79 all docs	79 docs citations
79 times ranked	1355 citing authors	

288905

#	Article	IF	Citations
1	Harris 3D: a robust extension of the Harris operator for interest point detection on 3D meshes. Visual Computer, 2011, 27, 963-976.	2.5	367
2	Feature-based similarity search in 3D object databases. ACM Computing Surveys, 2005, 37, 345-387.	16.1	332
3	Pivot selection techniques for proximity searching in metric spaces. Pattern Recognition Letters, 2003, 24, 2357-2366.	2.6	158
4	A comparison of methods for non-rigid 3D shape retrieval. Pattern Recognition, 2013, 46, 449-461.	5.1	147
5	Content-Based 3D Object Retrieval. IEEE Computer Graphics and Applications, 2007, 27, 22-27.	1.0	92
6	A comparison of methods for sketch-based 3D shape retrieval. Computer Vision and Image Understanding, 2014, 119, 57-80.	3.0	91
7	On nonmetric similarity search problems in complex domains. ACM Computing Surveys, 2011, 43, 1-50.	16.1	60
8	An experimental effectiveness comparison of methods for 3D similarity search. International Journal on Digital Libraries, 2006, 6, 39-54.	1.1	41
9	An Improved Histogram of Edge Local Orientations for Sketch-Based Image Retrieval. Lecture Notes in Computer Science, 2010, , 432-441.	1.0	37
10	Automatic Selection and Combination of Descriptors for Effective 3D Similarity Search. , 0, , .		34
11	Sketch-based image retrieval using keyshapes. Multimedia Tools and Applications, 2014, 73, 2033-2062.	2.6	33
12	A Dynamic Pivot Selection Technique for Similarity Search. , 2008, , .		29
13	Improving Video Captioning with Temporal Composition of a Visual-Syntactic Embedding. , 2021, , .		27
14	Probabilistic proximity searching algorithms based on compact partitions. Journal of Discrete Algorithms, 2004, 2, 115-134.	0.7	26
15	IMGpedia: A Linked Dataset with Content-Based Analysis of Wikimedia Images. Lecture Notes in Computer Science, 2017, , 84-93.	1.0	26
16	Dynamic similarity search in multi-metric spaces. , 2006, , .		24
17	D-Cache: Universal Distance Cache for Metric Access Methods. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 868-881.	4.0	22
18	An experimental comparison of feature-based 3D retrieval methods. , 0, , .		20

#	Article	IF	Citations
19	STELA. , 2011, , .		20
20	Competitive content-based video copy detection using global descriptors. Multimedia Tools and Applications, 2013, 62, 75-110.	2.6	17
21	Data-aware 3D partitioning for generic shape retrieval. Computers and Graphics, 2013, 37, 460-472.	1.4	17
22	A Survey on Frameworks Used for Robustness Analysis on Interdependent Networks. Complexity, 2020, 2020, 1-17.	0.9	15
23	Adapting metric indexes for searching in multi-metric spaces. Multimedia Tools and Applications, 2012, 58, 467-496.	2.6	13
24	Analyzing and dynamically indexing the query set. Information Systems, 2014, 45, 37-47.	2.4	13
25	Key-components: detection of salient regions on 3D meshes. Visual Computer, 2013, 29, 1319-1332.	2.5	12
26	A pivot-based index structure for combination of feature vectors. , 2005, , .		11
27	Text-Based and Content-Based Image Retrieval on Flickr: DEMO. , 2009, , .		11
28	Improving 3D similarity search by enhancing and combining 3D descriptors. Multimedia Tools and Applications, 2012, 58, 81-108.	2.6	10
29	Competitiveness of a Non-Linear Block-Space GPU Thread Map for Simplex Domains. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 2728-2741.	4.0	10
30	SHREC 2020: Retrieval of digital surfaces with similar geometric reliefs. Computers and Graphics, 2020, 91, 199-218.	1.4	10
31	Improving the space cost of k-NN search in metric spaces by using distance estimators. Multimedia Tools and Applications, 2009, 41, 215-233.	2.6	9
32	Pivot selection techniques for proximity searching in metric spaces. , 0, , .		8
33	A sketch-aided retrieval approach for incomplete 3D objects. Computers and Graphics, 2020, 87, 111-122.	1.4	8
34	Anomaly Detection in Streaming Time Series Based on Bounding Boxes. Lecture Notes in Computer Science, 2014, , 201-213.	1.0	8
35	A benchmark of simulated range images for partial shape retrieval. Visual Computer, 2014, 30, 1293-1308.	2.5	7
36	Scalable 3D shape retrieval using local features and the signature quadratic form distance. Visual Computer, 2017, 33, 1571-1585.	2.5	7

#	ARTICLE	IF	CITATIONS
37	Extracting semantic knowledge from web context for multimedia IR: a taxonomy, survey and challenges. Multimedia Tools and Applications, 2018, 77, 13853-13889.	2.6	7
38	Visual-semantic graphs. , 2010, , .		6
39	Automatic weight selection for multi-metric distances. , 2011, , .		5
40	Efficient GPU thread mapping on embedded 2D fractals. Future Generation Computer Systems, 2020, 113, 158-169.	4.9	5
41	Improving Signal-Strength Aggregation for Mobile Crowdsourcing Scenarios. Sensors, 2021, 21, 1084.	2.1	5
42	A comprehensive review of the video-to-text problem. Artificial Intelligence Review, 2022, 55, 4165-4239.	9.7	5
43	Non-metric similarity search problems in very large collections. , 2011, , .		4
44	Graph-based combinations of fragment descriptors for improved 3D Object Retrieval. , 2012, , .		4
45	Visual exploration of local interest points in sets of time series. , 2012, , .		4
46	A Fully Hierarchical Approach for Finding Correspondences in Non-rigid Shapes. , 2013, , .		4
47	Potential benefits of a block-space GPU approach for discrete tetrahedral domains. , 2016, , .		4
48	Detecting Anomalies at a TLD Name Server Based on DNS Traffic Predictions. IEEE Transactions on Network and Service Management, 2021, 18, 1016-1030.	3.2	4
49	On Index-Free Similarity Search in Metric Spaces. Lecture Notes in Computer Science, 2009, , 516-531.	1.0	4
50	Efficient Temporal Kernels Between Feature Sets for Time Series Classification. Lecture Notes in Computer Science, 2017, , 528-543.	1.0	4
51	A dynamic pivot selection technique for similarity search. , 2008, , .		3
52	P-VCD: A pivot-based approach for Content-Based Video Copy Detection. , 2011, , .		3
53	Empirical evaluation of dissimilarity measures for 3D object retrieval with application to multi-feature retrieval. , 2015, , .		3
54	Squeeze: Efficient compact fractals for tensor core GPUs. Future Generation Computer Systems, 2022, 135, 10-19.	4.9	3

#	Article	IF	Citations
55	Beyond the metric space model. SIGSPATIAL Special, 2010, 2, 20-23.	2.5	2
56	3D Shape Matching for Retrieval and Recognition. , 2012, , 265-308.		2
57	Combining pixel domain and compressed domain index for sketch based image retrieval. Multimedia Tools and Applications, 2017, 76, 22019-22042.	2.6	2
58	A Benchmark Dataset for Repetitive Pattern Recognition on Textured 3D Surfaces. Computer Graphics Forum, 2021, 40, 1-8.	1.8	2
59	Indexing, X-Tree. , 2008, , 543-547.		2
60	Extending SPARQL with Similarity Joins. Lecture Notes in Computer Science, 2020, , 201-217.	1.0	2
61	On the asymptotic behavior of nearest neighbor search using pivot-based indexes. , 2010, , .		1
62	CP-index. , 2010, , .		1
63	PePa Ping Dataset. , 2021, , .		1
64	Effect of adding physical links on the robustness of the Internet modeled as a physical-logical interdependent network using simple strategies. International Journal of Critical Infrastructure Protection, 2021, 36, 100483.	2.9	1
65	Feature-Based 3D Object Retrieval. , 2017, , 1-5.		1
66	Multi-resolution Time Series Discord Discovery. Lecture Notes in Computer Science, 2017, , 116-128.	1.0	1
67	Snake Table: A Dynamic Pivot Table for Streams of k-NN Searches. Lecture Notes in Computer Science, 2012, , 25-39.	1.0	1
68	Probabilistic Proximity Searching Algorithms Based on Compact Partitions. Lecture Notes in Computer Science, 2002, , 284-297.	1.0	1
69	Feature-Based 3D Object Retrieval. , 2009, , 1125-1128.		1
70	Human Action Classification Using an Extended BoW Formalism. Lecture Notes in Computer Science, 2017, , 185-196.	1.0	1
71	Image descriptor extraction using Android mobile devices for a video search system. IEEE Latin America Transactions, 2016, 14, 2890-2893.	1.2	0
72	Analysis of a Self-Similar GPU Thread Map for Data-parallel m-Simplex Domains. , 2019, , .		0

#	Article	IF	Citations
73	A Multi-resolution Approximation for Time Series. Neural Processing Letters, 2020, 52, 75-96.	2.0	0
74	Rank-Mixer and Rank-Booster: Improving the Effectiveness of Retrieval Methods. Lecture Notes in Computer Science, 2010, , 119-128.	1.0	0
75	Indexing, X-Tree. , 2017, , 999-1004.		0
76	Feature-Based 3D Object Retrieval. , 2018, , 1467-1471.		0
77	3D Shape Matching for Retrieval and Recognition. , 2020, , 413-461.		0