Carlos Castillo

List of Publications by Year
in descending order

138 papers	10,460 citations	257101 24 h-index	264894 42 g-index
142 all docs	142 docs citations	142 times ranked	5948 citing authors

#	Article	IF	Citations
1	Fair Top-k Ranking with multiple protected groups. Information Processing and Management, 2022, 59, 102707.	5.4	22
2	Diversity in the Music Listening Experience: Insights from Focus Group Interviews. , 2022, , .		4
3	Cross-Lingual Query-Based Summarization of Crisis-Related Social Media: An Abstractive Approach Using Transformers. , 2022, , .		1
4	Evaluating causes of algorithmic bias in juvenile criminal recidivism. Artificial Intelligence and Law, 2021, 29, 111-147.	3.0	23
5	Poisoning Attacks on Algorithmic Fairness. Lecture Notes in Computer Science, 2021, , 162-177.	1.0	10
6	Diversity by Design in Music Recommender Systems. Transactions of the International Society for Music Information Retrieval, 2021, 4, 114-126.	1.1	3
7	Ranking and grouping social media requests for emergency services using serviceability model. Social Network Analysis and Mining, 2020, 10, 1.	1.9	13
8	Affirmative action policies for top-k candidates selection. , 2020, , .		7
9	Reducing Disparate Exposure in Ranking: A Learning To Rank Approach. , 2020, , .		76
10	FairSearch: A Tool For Fairness in Ranked Search Results. , 2020, , .		7
11	Auditing Algorithms. , 2020, , .		12
12	Detection of Disaster-Affected Cultural Heritage Sites from Social Media Images Using Deep Learning Techniques. Journal on Computing and Cultural Heritage, 2020, 13, 1-31.	1.2	30
13	Scilens news platform. Proceedings of the VLDB Endowment, 2020, 13, 2969-2972.	2.1	4
14	Why Machine Learning May Lead to Unfairness. , 2019, , .		38
15	Introduction to the Special Issue on AI for Disaster Management and Resilience. IEEE Intelligent Systems, 2019, 34, 3-5.	4.0	0
16	Social Data: Biases, Methodological Pitfalls, and Ethical Boundaries. Frontiers in Big Data, 2019, 2, 13.	1.8	306
17	Algorithmic Bias in Rankings. , 2019, , .		1
18	SciLens: Evaluating the Quality of Scientific News Articles Using Social Media and Scientific Literature Indicators. , 2019, , .		11

#	Article	IF	Citations
19	Fairness and Transparency in Ranking. ACM SIGIR Forum, 2019, 52, 64-71.	0.4	44
20	A computationally efficient multi-modal classification approach of disaster-related Twitter images. , 2019, , .		18
21	Modeling human annotation errors to design bias-aware systems for social stream processing. , 2019, , .		1
22	The 5th International Workshop on Social Web for Disaster Management(SWDM'18). , 2018, , .		0
23	A Critical Review of Online Social Data. , 2018, , .		12
24	Ranking of Social Media Alerts with Workload Bounds in Emergency Operation Centers. , 2018, , .		6
25	Algorithms for Hiring and Outsourcing in the Online Labor Market. , 2018, , .		11
26	Social-EOC: Serviceability Model to Rank Social Media Requests for Emergency Operation Centers. , 2018, , .		21
27	Processing Social Media Messages in Mass Emergency. , 2018, , .		45
28	To Post or Not to Post. , 2018, , .		5
29	Storyâ€focused reading in online news and its potential for user engagement. Journal of the Association for Information Science and Technology, 2017, 68, 869-883.	1.5	15
30	Predicting the Success of Online Petitions Leveraging Multidimensional Time-Series. , 2017, , .		15
31	A Case Study of Anonymization of Medical Surveys. , 2017, , .		4
32	Efficient Document Filtering Using Vector Space Topic Expansion and Pattern-Mining. , 2017, , .		7
33	FA*IR. , 2017, , .		252
34	A Robust Framework for Classifying Evolving Document Streams in an Expert-Machine-Crowd Setting. , 2016, , .		6
35	Overview of the Special Issue on Trust and Veracity of Information in Social Media. ACM Transactions on Information Systems, 2016, 34, 1-5.	3.8	26
36	Enabling Digital Health by Automatic Classification of Short Messages. , 2016, , .		1

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37	Algorithmic Bias. , 2016, , .		224
38	Combining Human Computing and Machine Learning to Make Sense of Big (Aerial) Data for Disaster Response. Big Data, 2016, 4, 47-59.	2.1	118
39	The Fourth International Workshop on Social Web for Disaster Management (SWDM 2016). , 2016, , .		0
40	Mobile Application Development for Crisis Data. Procedia Engineering, 2015, 107, 255-262.	1.2	6
41	Processing Social Media Messages in Mass Emergency. ACM Computing Surveys, 2015, 47, 1-38.	16.1	498
42	What to Expect When the Unexpected Happens. , 2015, , .		232
43	Towards a Data-driven Approach to Identify Crisis-Related Topics in Social Media Streams. , 2015, , .		20
44	The Case for Readability of Crisis Communications in Social Media. , 2015, , .		21
45	Volunteer-powered automatic classification of social media messages for public health in AIDR. , 2014, , .		3
46	FAST. , 2014, , .		2
47	TweetCred: Real-Time Credibility Assessment of Content on Twitter. Lecture Notes in Computer Science, 2014, , 228-243.	1.0	217
48	Integrating Social Media Communications into the Rapid Assessment of Sudden Onset Disasters. Lecture Notes in Computer Science, 2014, , 444-461.	1.0	48
49	Characterizing the life cycle of online news stories using social media reactions. , 2014, , .		111
50	Ranking item features by mining online user-item interactions. , 2014, , .		1
51	Composite Retrieval of Diverse and Complementary Bundles. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2662-2675.	4.0	22
52	AIDR. , 2014, , .		299
53	Emotions under Discussion: Gender, Status and Communication in Online Collaboration. PLoS ONE, 2014, 9, e104880.	1.1	41
54	Report on the WebQuality 2014 Workshop. ACM SIGIR Forum, 2014, 48, 93-95.	0.4	0

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55	Meme ranking to maximize posts virality in microblogging platforms. Journal of Intelligent Information Systems, 2013, 40, 211-239.	2.8	14
56	The role of information diffusion in the evolution of social networks. , 2013, , .		109
57	Predicting information credibility in time-sensitive social media. Internet Research, 2013, 23, 560-588.	2.7	259
58	Information and Influence Propagation in Social Networks. Synthesis Lectures on Data Management, 2013, 5, 1-177.	0.6	189
59	Says who?. , 2013, , .		6
60	Practical extraction of disaster-relevant information from social media. , 2013, , .		149
61	Social media news communities. , 2013, , .		55
62	Democratizing mobile app development for disaster management. , 2013, , .		22
63	Investigating query bursts in a web search engine. Web Intelligence and Agent Systems, 2013, 11, 107-124.	0.4	2
64	Online matching of web content to closed captions in IntoNow. , 2013, , .		5
65	Information verification during natural disasters. , 2013, , .		22
66	Traffic prediction and discovery of news via news crowds. , 2013, , .		3
67	Complexity and algorithms for composite retrieval. , 2013, , .		6
68	Finding news curators in twitter. , 2013, , .		28
69	Report on the WebQuality 2012 workshop. ACM SIGIR Forum, 2012, 46, 107-110.	0.4	0
70	Emotions and dialogue in a peer-production community. , 2012, , .		23
71	A data-driven sketch of Wikipedia editors. , 2012, , .		4
72	Mining search behavior and user-generated content. , 2012, , .		0

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73	Online team formation in social networks. , 2012, , .		228
74	Correlating financial time series with micro-blogging activity. , 2012, , .		170
75	Information Extraction from Webpages Based on DOM Distances. Lecture Notes in Computer Science, 2012, , 181-193.	1.0	7
76	Sparsification of influence networks. , 2011, , .		116
77	Social Network Analysis and Mining for Business Applications. ACM Transactions on Intelligent Systems and Technology, 2011, 2, 1-37.	2.9	227
78	Information credibility on twitter. , 2011, , .		1,511
79	Query reformulation mining: models, patterns, and applications. Information Retrieval, 2011, 14, 257-289.	1.6	27
80	Joint WICOW/AIRWeb workshop on web quality (WebQuality 2011). , 2011, , .		1
81	Viscous democracy for social networks. Communications of the ACM, 2011, 54, 129-137.	3.3	39
82	Graph regularization methods for Web spam detection. Machine Learning, 2010, 81, 207-225.	3.4	43
83	Efficient algorithms for large-scale local triangle counting. ACM Transactions on Knowledge Discovery From Data, 2010, 4, 1-28.	2.5	58
84	The demographics of web search. , 2010, , .		95
85	The Effects of Query Bursts on Web Search. , 2010, , .		10
86	Power in unity. , 2010, , .		91
87	An optimization framework for query recommendation. , 2010, , .		56
88	Adversarial Web Search. Foundations and Trends in Information Retrieval, 2010, 4, 377-486.	5.8	67
89	Query similarity by projecting the query-flow graph. , 2010, , .		41
90	Twitter under crisis. , 2010, , .		662

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91	The Meme Ranking Problem: Maximizing Microblogging Virality. , 2010, , .		36
92	Query suggestions using query-flow graphs. , 2009, , .		99
93	The Geographical Life of Search. , 2009, , .		8
94	From "Dango" to "Japanese Cakes": Query Reformulation Models and Patterns. , 2009, , .		43
95	Aging effects on query flow graphs for query suggestion. , 2009, , .		20
96	Optimising topical query decomposition. , 2009, , .		1
97	Voting in social networks. , 2009, , .		16
98	Fast shortest path distance estimation in large networks. , 2009, , .		188
99	Taxonomy-driven lumping for sequence mining. Data Mining and Knowledge Discovery, 2009, 19, 227-244.	2.4	7
100	Taxonomy-Driven Lumping for Sequence Mining. Lecture Notes in Computer Science, 2009, , 29-29.	1.0	0
101	The Juxtaposed approximate PageRank method for robust PageRank approximation in a peer-to-peer web search network. VLDB Journal, 2008, 17, 291-313.	2.7	15
102	Evaluating a modified Google user interface via screen reader. Universal Access in the Information Society, 2008, 7, 155-175.	2.1	16
103	Finding high-quality content in social media. , 2008, , .		760
104	Link analysis for Web spam detection. ACM Transactions on the Web, 2008, 2, 1-42.	2.0	76
105	Dr. Searcher and Mr. Browser. , 2008, , .		13
106	Fourth international workshop on adversarial information retrieval on the web (AIRWeb 2008). , 2008, , .		7
107	Efficient semi-streaming algorithms for local triangle counting in massive graphs. , 2008, , .		231
108	The query-flow graph. , 2008, , .		229

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109	Topical query decomposition. , 2008, , .		21
110	Web spam identification through content and hyperlinks. , 2008, , .		55
111	Adversarial Information Retrieval on the Web (AIRWeb 2007). ACM SIGIR Forum, 2008, 42, 68-72.	0.4	2
112	Query-log mining for detecting spam. , 2008, , .		13
113	Characterization of national Web domains. ACM Transactions on Internet Technology, 2007, 7, 9.	3.0	65
114	Computing trusted authority scores in peer-to-peer web search networks. , 2007, , .		13
115	New metrics for reputation management in P2P networks. , 2007, , .		28
116	Challenges on Distributed Web Retrieval. , 2007, , .		69
117	Distinctive Features of the Argentinian Web. , 2007, , .		0
118	Know your neighbors. , 2007, , .		202
119	Estimating Number of Citations Using Author Reputation. , 2007, , 107-117.		48
120	Distinctive Features of the Argentinian Web. , 2007, , .		0
121	Temporal Analysis of the Wikigraph. , 2006, , .		80
122	A Memory-Efficient Strategy for Exploring the Web. , 2006, , .		2
123	Generic Damping Functions for Propagating Importance in Link-Based Ranking. Internet Mathematics, 2006, 3, 445-478.	0.7	12
124	Improving search engine interfaces for blind users: a case study. Universal Access in the Information Society, 2006, 5, 23-40.	2.1	36
125	Generalizing PageRank. , 2006, , .		56
126	The distribution of pageRank follows a power-law only for particular values of the damping factor. , 2006, , .		25

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127	Testing google ionterfaces modified for the blind. , 2006, , .		4
128	Relationship between web links and trade. , 2006, , .		3
129	A prototype of google interfaces modified for simplifying interaction for blind users. , 2006, , .		2
130	A reference collection for web spam. ACM SIGIR Forum, 2006, 40, 11-24.	0.4	150
131	Crawling a country. , 2005, , .		90
132	Effective web crawling. ACM SIGIR Forum, 2005, 39, 55-56.	0.4	71
133	Crawling the Infinite Web: Five Levels Are Enough. Lecture Notes in Computer Science, 2004, , 156-167.	1.0	24
134	Web Structure, Dynamics and Page Quality. Lecture Notes in Computer Science, 2002, , 117-130.	1.0	39
135	Scheduling algorithms for web crawling. , 0, , .		29
136	Social Data: Biases, Methodological Pitfalls, and Ethical Boundaries. SSRN Electronic Journal, 0, , .	0.4	43
137	Emergency-relief coordination on social media: Automatically matching resource requests and offers. First Monday, 0, , .	0.6	69
138	Cable News Coverage and Online News Stories: A Large-Scale Comparison of Media Bias. SSRN Electronic Journal, 0, , .	0.4	2