

# Bing Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43  
papers

4,941  
citations

22  
h-index

53  
g-index

53  
ext. papers

6,018  
ext. citations

4.4  
avg, IF

6.06  
L-index

#	Paper	IF	Citations
43	Sentiment Analysis: Mining Opinions, Sentiments, and Emotions <b>2020</b> ,		48
42	The Problem of Sentiment Analysis <b>2020</b> , 18-54		
41	Document Sentiment Classification <b>2020</b> , 55-88		
40	Aspect Sentiment Classification <b>2020</b> , 115-167		
39	Analysis of Comparative Opinions <b>2020</b> , 243-258		
38	Opinion Summarization and Search <b>2020</b> , 259-272		
37	Analysis of Debates and Comments <b>2020</b> , 273-293		
36	Mining Intent <b>2020</b> , 294-303		
35	Quality of Reviews <b>2020</b> , 354-359		
34	Sentence Subjectivity and Sentiment Classification <b>2020</b> , 89-114		
33	Detecting Fake or Deceptive Opinions <b>2020</b> , 304-353		
32	Aspect and Entity Extraction <b>2020</b> , 168-226		
31	Sentiment Lexicon Generation <b>2020</b> , 227-242		0
30	. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2019</b> , 27, 1201-1212	3.6	25
29	Lifelong Machine Learning, Second Edition. <i>Synthesis Lectures on Artificial Intelligence and Machine Learning</i> , <b>2018</b> , 12, 1-207	9.3	72
28	Sentiment Analysis in Social Media, Aspect Extraction for <b>2018</b> , 2399-2409		0
27	Many Facets of Sentiment Analysis. <i>A Practical Guide To Sentiment Analysis</i> , <b>2017</b> , 11-39	0	15

26	Lifelong Machine Learning. <i>Synthesis Lectures on Artificial Intelligence and Machine Learning</i> , <b>2016</b> , 10, 1-145	9.3	114
25	Automated rule selection for opinion target extraction. <i>Knowledge-Based Systems</i> , <b>2016</b> , 104, 74-88	7.3	35
24	Aspect and Entity Extraction for Opinion Mining. <i>Studies in Big Data</i> , <b>2014</b> , 1-40	0.9	46
23	A Logic Programming Approach to Aspect Extraction in Opinion Mining <b>2013</b> ,		16
22	Opinion Word Expansion and Target Extraction through Double Propagation. <i>Computational Linguistics</i> , <b>2011</b> , 37, 9-27	2.8	467
21	Structured Data Extraction: Wrapper Generation <b>2011</b> , 363-423		3
20	Finding Actionable Knowledge via Automated Comparison. <i>Proceedings - International Conference on Data Engineering</i> , <b>2009</b> ,	2	2
19	Time Sensitive Ranking with Application to Publication Search <b>2008</b> ,		15
18	Analyzing and Detecting Review Spam <b>2007</b> ,		94
17	Structured Data Extraction from the Web Based on Partial Tree Alignment. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2006</b> , 18, 1614-1628	4.2	97
16	Mining Latent Associations of Objects Using a Typed Mixture Model--A Case Study on Expert/Expertise Mining. <i>IEEE International Conference on Data Mining</i> , <b>2006</b> ,		1
15	Guest Editors Introduction: Special Section on Intelligent Data Preparation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2005</b> , 17, 1163-1165	4.2	4
14	Web data extraction based on partial tree alignment <b>2005</b> ,		240
13	Mining and summarizing customer reviews <b>2004</b> ,		2527
12	Eliminating noisy information in Web pages for data mining <b>2003</b> ,		117
11	Mining topic-specific concepts and definitions on the web <b>2003</b> ,		36
10	Mining data records in Web pages <b>2003</b> ,		137
9	Visualizing web site comparisons <b>2002</b> ,		11

8	Discovering unexpected information from your competitors web sites <b>2001</b> ,		35
7	Analyzing the subjective interestingness of association rules. <i>IEEE Intelligent Systems</i> , <b>2000</b> , 15, 47-55		112
6	Multi-level organization and summarization of the discovered rules <b>2000</b> ,		44
5	Pruning and summarizing the discovered associations <b>1999</b> ,		190
4	Finding interesting patterns using user expectations. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>1999</b> , 11, 817-832	4.2	73
3	A visual data mining framework for convenient identification of useful knowledge		8
2	Adding the temporal dimension to search - a case study in publication search		7
1	An EM based training algorithm for cross-language text categorization		24