Jeffrey Heer

List of Publications by Year
in descending order

59 papers	8,996 citations	101496 36 h-index	243529 44 g-index
59 all docs	59 docs citations	59 times ranked	5904 citing authors

#	Article	IF	Citations
1	Visualizing Urban Accessibility: Investigating Multi-Stakeholder Perspectives through a Map-based Design Probe Study. , 2022, , .		7
2	Tisane: Authoring Statistical Models via Formal Reasoning from Conceptual and Data Relationships. , 2022, , .		3
3	Gemini²: Generating Keyframe-Oriented Animated Transitions Between Statistical Graphics. , 2021, , .		6
4	Exploring the Effects of Aggregation Choices on Untrained Visualization Users' Generalizations From Data. Computer Graphics Forum, 2020, 39, 33-48.	1.8	7
5	Paths Explored, Paths Omitted, Paths Obscured: Decision Points & Selective Reporting in End-to-End Data Analysis. , 2020, , .		22
6	Dziban: Balancing Agency & Automation in Visualization Design via Anchored Recommendations. , 2020, , .		27
7	Latent Space Cartography: Visual Analysis of Vector Space Embeddings. Computer Graphics Forum, 2019, 38, 67-78.	1.8	52
8	Characterizing Exploratory Visual Analysis: A Literature Review and Evaluation of Analytic Provenance in Tableau. Computer Graphics Forum, 2019, 38, 145-159.	1.8	56
9	Capture & Analysis of Active Reading Behaviors for Interactive Articles on the Web. Computer Graphics Forum, 2019, 38, 687-698.	1.8	9
10	Agency plus automation: Designing artificial intelligence into interactive systems. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1844-1850.	3.3	119
11	Similarity in transgender and cisgender childrenâ€™s gender development. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24480-24485.	3.3	70
12	Formalizing Visualization Design Knowledge as Constraints: Actionable and Extensible Models in Draco. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 438-448.	2.9	154
13	SetCoLa: Highâ€Level Constraints for Graph Layout. Computer Graphics Forum, 2018, 37, 537-548.	1.8	11
14	Assessing Effects of Task and Data Distribution on the Effectiveness of Visual Encodings. Computer Graphics Forum, 2018, 37, 157-167.	1.8	57
15	Idyll. , 2018, , .		48
16	Altair: Interactive Statistical Visualizations for Python. Journal of Open Source Software, 2018, 3, 1057.	2.0	130
17	Voyager 2. , 2017, , .		177
18	Reverseâ€Engineering Visualizations: Recovering Visual Encodings from Chart Images. Computer Graphics Forum, 2017, 36, 353-363.	1.8	117

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19	Vega-Lite: A Grammar of Interactive Graphics. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 341-350.	2.9	456
20	Regression by Eye. , 2017, , .		34
21	Position statement: The case for a visualization performance benchmark. , 2017, , .		13
22	GraphScape. , 2017, , .		59
23	Towards a general-purpose query language for visualization recommendation. , 2016, , .		63
24	Reactive Vega: A Streaming Dataflow Architecture for Declarative Interactive Visualization. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 659-668.	2.9	177
25	Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 649-658.	2.9	287
26	Refinery: Visual Exploration of Large, Heterogeneous Networks through Associative Browsing. Computer Graphics Forum, 2015, 34, 301-310.	1.8	27
27	Perfopticon: Visual Query Analysis for Distributed Databases. Computer Graphics Forum, 2015, 34, 71-80.	1.8	13
28	A demonstration of the BigDAWG polystore system. Proceedings of the VLDB Endowment, 2015, 8, 1908-1911.	2.1	65
29	Natural language translation at the intersection of AI and HCI. Communications of the ACM, 2015, 58, 46-53.	3.3	33
30	Induced lexico-syntactic patterns improve information extraction from online medical forums. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 902-909.	2.2	44
31	The Effects of Interactive Latency on Exploratory Visual Analysis. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2122-2131.	2.9	198
32	Orion: A system for modeling, transformation and visualization of multidimensional heterogeneous networks. Information Visualization, 2014, 13, 111-133.	1.2	33
33	Authoring Narrative Visualizations with Ellipsis. Computer Graphics Forum, 2014, 33, 361-370.	1.8	71
34	Learning Perceptual Kernels for Visualization Design. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1933-1942.	2.9	84
35	Lyra: An Interactive Visualization Design Environment. Computer Graphics Forum, 2014, 33, 351-360.	1.8	140
36	Visual Embedding: A Model for Visualization. IEEE Computer Graphics and Applications, 2014, 34, 10-15.	1.0	27

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37	Human Effort and Machine Learnability in Computer Aided Translation. , 2014, , .		31
38	Differentiating language usage through topic models. Poetics, 2013, 41, 607-625.	0.6	83
39	Colony life history and lifetime reproductive success of red harvester ant colonies. Journal of Animal Ecology, 2013, 82, 540-550.	1.3	48
40	Identifying medical terms in patient-authored text: a crowdsourcing-based approach. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 1120-1127.	2.2	67
41	Interactive dynamics for visual analysis. Communications of the ACM, 2012, 55, 45-54.	3.3	201
42	Enterprise Data Analysis and Visualization: An Interview Study. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2917-2926.	2.9	275
43	DÂ³ Data-Driven Documents. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2301-2309.	2.9	2,206
44	Divided Edge Bundling for Directional Network Data. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2354-2363.	2.9	91
45	Research directions in data wrangling: Visualizations and transformations for usable and credible data. Information Visualization, 2011, 10, 271-288.	1.2	233
46	Wrangler. , 2011, , .		395
47	Declarative Language Design for Interactive Visualization. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 1149-1156.	2.9	80
48	Narrative Visualization: Telling Stories with Data. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 1139-1148.	2.9	736
49	Perceptual Guidelines for Creating Rectangular Treemaps. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 990-998.	2.9	75
50	Voyagers and voyeurs. Communications of the ACM, 2009, 52, 87-97.	3.3	165
51	Protovis: A Graphical Toolkit for Visualization. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1121-1128.	2.9	236
52	Graphical Histories for Visualization: Supporting Analysis, Communication, and Evaluation. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1189-1196.	2.9	210
53	Design Considerations for Collaborative Visual Analytics. Information Visualization, 2008, 7, 49-62.	1.2	163
54	Animated Transitions in Statistical Data Graphics. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1240-1247.	2.9	309

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55	Scented Widgets: Improving Navigation Cues with Embedded Visualizations. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1129-1136.	2.9	200
56	Software Design Patterns for Information Visualization. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 853-860.	2.9	128
57	Does Binding of Synesthetic Color to the Evoking Grapheme Require Attention?. Cortex, 2006, 42, 232-242.	1.1	95
58	Separating the swarm. , 2002, , .		45
59	What did they do? understanding clickstreams with the WebQuilt visualization system. , 2002, , .		28