

Niklas Elmqvist

List of Publications by Year in descending order

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64
papers

3,024
citations

186265

28
h-index

168389

53
g-index

67
all docs

67
docs citations

67
times ranked

2063
citing authors

#	ARTICLE	IF	CITATIONS
1	StoryFacets: A design study on storytelling with visualizations for collaborative data analysis. Information Visualization, 2022, 21, 3-16.	1.9	7
2	Towards Understanding Sensory Substitution for Accessible Visualization: An Interview Study. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1084-1094.	4.4	19
3	Topology-aware space distortion for structured visualization spaces. Information Visualization, 2022, 21, 166-181.	1.9	1
4	Integrating annotations into multidimensional visual dashboards. Information Visualization, 2022, 21, 270-284.	1.9	2
5	Workshop on Audio-Visual Analytics. , 2022, , .		1
6	Effects of screen-responsive visualization on data comprehension. Information Visualization, 2021, 20, 229-244.	1.9	2
7	Using social interaction trace data and context to predict collaboration quality and creative fluency in collaborative design learning environments. International Journal of Human Computer Studies, 2020, 136, 102378.	5.6	14
8	VisHive: Supporting web-based visualization through ad hoc computational clusters of mobile devices. Information Visualization, 2019, 18, 195-210.	1.9	6
9	Visualizing for the Non-Visual: Enabling the Visually Impaired to Use Visualization. Computer Graphics Forum, 2019, 38, 249-260.	3.0	71
10	Bridging the Data Analysis Communication Gap Utilizing a Three-Component Summarized Line Graph. Computer Graphics Forum, 2019, 38, 375-386.	3.0	2
11	InsidInsights: Integrating Data-Driven Reporting in Collaborative Visual Analytics. Computer Graphics Forum, 2019, 38, 649-661.	3.0	31
12	Ranked-List Visualization. , 2019, , .		14
13	DataSite: Proactive visual data exploration with computation of insight-based recommendations. Information Visualization, 2019, 18, 251-267.	1.9	52
14	Vistrates: A Component Model for Ubiquitous Analytics. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 586-596.	4.4	30
15	Visfer: Camera-based visual data transfer for cross-device visualization. Information Visualization, 2019, 18, 68-93.	1.9	12
16	The Interactive Visualization Gap in Initial Exploratory Data Analysis. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 278-287.	4.4	54
17	Metaviz: interactive statistical and visual analysis of metagenomic data. Nucleic Acids Research, 2018, 46, 2777-2787.	14.5	29
18	<sc>Atom</sc>: A Grammar for Unit Visualizations. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 3032-3043.	4.4	67

#	ARTICLE	IF	CITATIONS
19	Keshif: Rapid and Expressive Tabular Data Exploration for Novices. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2339-2352.	4.4	45
20	How Do Sketching and Non-Sketching Actions Convey Design Intent?. , 2018, , .		6
21	Observations and Reflections on Visualization Literacy in Elementary School. IEEE Computer Graphics and Applications, 2018, 38, 21-29.	1.2	30
22	Integrating Visual Analytics Support for Grounded Theory Practice in Qualitative Text Analysis. Computer Graphics Forum, 2017, 36, 201-212.	3.0	27
23	Steering the Craft: UI Elements and Visualizations for Supporting Progressive Visual Analytics. Computer Graphics Forum, 2017, 36, 491-502.	3.0	21
24	Evaluating Visual Representations for Topic Understanding and Their Effects on Manually Generated Topic Labels. Transactions of the Association for Computational Linguistics, 2017, 5, 1-16.	4.8	25
25	Mushaca: A 3-Degrees-of-Freedom Mouse Supporting Rotation. International Journal of Human-Computer Interaction, 2016, 32, 481-492.	4.8	0
26	AggreSet: Rich and Scalable Set Exploration using Visualizations of Element Aggregations. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 688-697.	4.4	15
27	Evaluating Social Navigation Visualization in Online Geographic Maps. International Journal of Human-Computer Interaction, 2015, 31, 118-127.	4.8	6
28	Sketcholution: Interaction histories for sketching. International Journal of Human Computer Studies, 2015, 82, 11-20.	5.6	7
29	ThemeDelta: Dynamic Segmentations over Temporal Topic Models. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 672-685.	4.4	37
30	Patterns for visualization evaluation. Information Visualization, 2015, 14, 250-269.	1.9	45
31	VisDock: A Toolkit for Cross-Cutting Interactions in Visualization. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 1087-1100.	4.4	12
32	VASA: Interactive Computational Steering of Large Asynchronous Simulation Pipelines for Societal Infrastructure. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1853-1862.	4.4	10
33	DIA2: Web-based Cyberinfrastructure for Visual Analysis of Funding Portfolios. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1823-1832.	4.4	19
34	Visualization beyond the Desktop--the Next Big Thing. IEEE Computer Graphics and Applications, 2014, 34, 26-34.	1.2	88
35	Ubiquitous Analytics: Interacting with Big Data Anywhere, Anytime. Computer, 2013, 46, 86-89.	1.1	58
36	Visual Analytics for Multimodal Social Network Analysis: A Design Study with Social Scientists. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2032-2041.	4.4	59

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37	Visualization Mosaics for Multivariate Visual Exploration. Computer Graphics Forum, 2013, 32, 38-50.	3.0	12
38	ExPlates: Spatializing Interactive Analysis to Scaffold Visual Exploration. Computer Graphics Forum, 2013, 32, 441-450.	3.0	33
39	Toward Visualization for Games: Theory, Design Space, and Patterns. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 1956-1968.	4.4	52
40	Evaluating the Role of Time in Investigative Analysis of Document Collections. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 1992-2004.	4.4	13
41	Embodied lenses for collaborative visual queries on tabletop displays. Information Visualization, 2012, 11, 319-338.	1.9	18
42	Portfolio Mining. Computer, 2012, 45, 95-99.	1.1	6
43	A correlative analysis process in a visual analytics environment. , 2012, , .		39
44	Leveraging Multidisciplinarity in a Visual Analytics Graduate Course. IEEE Computer Graphics and Applications, 2012, 32, 84-87.	1.2	13
45	Perception of Animated Node-Link Diagrams for Dynamic Graphs. Computer Graphics Forum, 2012, 31, 1205-1214.	3.0	40
46	Dynamic Insets for Context-Aware Graph Navigation. Computer Graphics Forum, 2011, 30, 861-870.	3.0	26
47	Temporal distortion for animated transitions. , 2011, , .		54
48	Fluid interaction for information visualization. Information Visualization, 2011, 10, 327-340.	1.9	187
49	Collaborative visualization: Definition, challenges, and research agenda. Information Visualization, 2011, 10, 310-326.	1.9	211
50	GraphDice: A System for Exploring Multivariate Social Networks. Computer Graphics Forum, 2010, 29, 863-872.	3.0	120
51	TimeMatrix: Analyzing Temporal Social Networks Using Interactive Matrix-Based Visualizations. International Journal of Human-Computer Interaction, 2010, 26, 1031-1051.	4.8	78
52	Hierarchical Aggregation for Information Visualization: Overview, Techniques, and Design Guidelines. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 439-454.	4.4	278
53	M@lange: Space Folding for Visual Exploration. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 468-483.	4.4	21
54	Graphical Perception of Multiple Time Series. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 927-934.	4.4	192

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55	Stack zooming for multi-focus interaction in time-series data visualization. , 2010, , .		32
56	Towards Utilizing GPUs in Information Visualization: A Model and Implementation of Image-Space Operations. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1105-1112.	4.4	30
57	Rolling the Dice: Multidimensional Visual Exploration using Scatterplot Matrix Navigation. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1539-1148.	4.4	292
58	A Taxonomy of 3D Occlusion Management for Visualization. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1095-1109.	4.4	156
59	DataMeadow: A Visual Canvas for Analysis of Large-Scale Multivariate Data. Information Visualization, 2008, 7, 18-33.	1.9	52
60	CiteWiz: A Tool for the Visualization of Scientific Citation Networks. Information Visualization, 2007, 6, 215-232.	1.9	37
61	DataMeadow: A Visual Canvas for Analysis of Large-Scale Multivariate Data. , 2007, , .		28
62	20 Years of Four HCI Conferences: A Visual Exploration. International Journal of Human-Computer Interaction, 2007, 23, 239-285.	4.8	56
63	View-projection animation for 3D occlusion management. Computers and Graphics, 2007, 31, 864-876.	2.5	8
64	Animated Visualization of Causal Relations Through Growing 2D Geometry. Information Visualization, 2004, 3, 154-172.	1.9	14