Niklas Elmqvist

List of Publications by Year
in descending order

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	Rolling the Dice: Multidimensional Visual Exploration using Scatterplot Matrix Navigation. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1539-1148.	4.4	292
2	Hierarchical Aggregation for Information Visualization: Overview, Techniques, and Design Guidelines. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 439-454.	4.4	278
3	Collaborative visualization: Definition, challenges, and research agenda. Information Visualization, 2011, 10, 310-326.	1.9	211
4	Graphical Perception of Multiple Time Series. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 927-934.	4.4	192
5	Fluid interaction for information visualization. Information Visualization, 2011, 10, 327-340.	1.9	187
6	A Taxonomy of 3D Occlusion Management for Visualization. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1095-1109.	4.4	156
7	GraphDice: A System for Exploring Multivariate Social Networks. Computer Graphics Forum, 2010, 29, 863-872.	3.0	120
8	Visualization beyond the Desktop--the Next Big Thing. IEEE Computer Graphics and Applications, 2014, 34, 26-34.	1.2	88
9	TimeMatrix: Analyzing Temporal Social Networks Using Interactive Matrix-Based Visualizations. International Journal of Human-Computer Interaction, 2010, 26, 1031-1051.	4.8	78
10	Visualizing for the Nonâ€Visual: Enabling the Visually Impaired to Use Visualization. Computer Graphics Forum, 2019, 38, 249-260.	3.0	71
11	<sc>Atom</sc>: A Grammar for Unit Visualizations. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 3032-3043.	4.4	67
12	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
13	Ubiquitous Analytics: Interacting with Big Data Anywhere, Anytime. Computer, 2013, 46, 86-89.	1.1	58
14	20 Years of Four HCI Conferences: A Visual Exploration. International Journal of Human-Computer Interaction, 2007, 23, 239-285.	4.8	56
15	Temporal distortion for animated transitions. , 2011, , .		54
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	DataMeadow: A Visual Canvas for Analysis of Large-Scale Multivariate Data. Information Visualization, 2008, 7, 18-33.	1.9	52
18	Toward Visualization for Games: Theory, Design Space, and Patterns. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 1956-1968.	4.4	52

#	Article	IF	Citations
19	DataSite: Proactive visual data exploration with computation of insight-based recommendations. Information Visualization, 2019, 18, 251-267.	1.9	52
20	Patterns for visualization evaluation. Information Visualization, 2015, 14, 250-269.	1.9	45
21	Keshif: Rapid and Expressive Tabular Data Exploration for Novices. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2339-2352.	4.4	45
22	Perception of Animated Nodeâ€Link Diagrams for Dynamic Graphs. Computer Graphics Forum, 2012, 31, 1205-1214.	3.0	40
23	A correlative analysis process in a visual analytics environment. , 2012, , .		39
24	CiteWiz: A Tool for the Visualization of Scientific Citation Networks. Information Visualization, 2007, 6, 215-232.	1.9	37
25	ThemeDelta: Dynamic Segmentations over Temporal Topic Models. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 672-685.	4.4	37
26	ExPlates: Spatializing Interactive Analysis to Scaffold Visual Exploration. Computer Graphics Forum, 2013, 32, 441-450.	3.0	33
27	Stack zooming for multi-focus interaction in time-series data visualization. , 2010, , .		32
28	InsideInsights: Integrating Dataâ€Driven Reporting in Collaborative Visual Analytics. Computer Graphics Forum, 2019, 38, 649-661.	3.0	31
29	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
30	Observations and Reflections on Visualization Literacy in Elementary School. IEEE Computer Graphics and Applications, 2018, 38, 21-29.	1.2	30
31	Vistrates: A Component Model for Ubiquitous Analytics. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 586-596.	4.4	30
32	Metaviz: interactive statistical and visual analysis of metagenomic data. Nucleic Acids Research, 2018, 46, 2777-2787.	14.5	29
33	DataMeadow: A Visual Canvas for Analysis of Large-Scale Multivariate Data. , 2007, , .		28
34	Integrating Visual Analytics Support for Grounded Theory Practice in Qualitative Text Analysis. Computer Graphics Forum, 2017, 36, 201-212.	3.0	27
35	Dynamic Insets for Contextâ€Aware Graph Navigation. Computer Graphics Forum, 2011, 30, 861-870.	3.0	26
36	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

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37	MÃ©lange: Space Folding for Visual Exploration. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 468-483.	4.4	21
38	Steering the Craft: UI Elements and Visualizations for Supporting Progressive Visual Analytics. Computer Graphics Forum, 2017, 36, 491-502.	3.0	21
39	DIA2: Web-based Cyberinfrastructure for Visual Analysis of Funding Portfolios. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1823-1832.	4.4	19
40	Towards Understanding Sensory Substitution for Accessible Visualization: An Interview Study. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1084-1094.	4.4	19
41	Embodied lenses for collaborative visual queries on tabletop displays. Information Visualization, 2012, 11, 319-338.	1.9	18
42	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
43	Animated Visualization of Causal Relations Through Growing 2D Geometry. Information Visualization, 2004, 3, 154-172.	1.9	14
44	Ranked-List Visualization. , 2019, , .		14
45	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
46	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
47	Leveraging Multidisciplinarity in a Visual Analytics Graduate Course. IEEE Computer Graphics and Applications, 2012, 32, 84-87.	1.2	13
48	Visualization Mosaics for Multivariate Visual Exploration. Computer Graphics Forum, 2013, 32, 38-50.	3.0	12
49	VisDock: A Toolkit for Cross-Cutting Interactions in Visualization. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 1087-1100.	4.4	12
50	Visfer: Camera-based visual data transfer for cross-device visualization. Information Visualization, 2019, 18, 68-93.	1.9	12
51	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
52	View-projection animation for 3D occlusion management. Computers and Graphics, 2007, 31, 864-876.	2.5	8
53	Sketcholution: Interaction histories for sketching. International Journal of Human Computer Studies, 2015, 82, 11-20.	5.6	7
54	StoryFacets: A design study on storytelling with visualizations for collaborative data analysis. Information Visualization, 2022, 21, 3-16.	1.9	7

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55	Portfolio Mining. Computer, 2012, 45, 95-99.	1.1	6
56	Evaluating Social Navigation Visualization in Online Geographic Maps. International Journal of Human-Computer Interaction, 2015, 31, 118-127.	4.8	6
57	How Do Sketching and Non-Sketching Actions Convey Design Intent?. , 2018, , .		6
58	VisHive: Supporting web-based visualization through ad hoc computational clusters of mobile devices. Information Visualization, 2019, 18, 195-210.	1.9	6
59	Bridging the Data Analysis Communication Gap Utilizing a Three€Component Summarized Line Graph. Computer Graphics Forum, 2019, 38, 375-386.	3.0	2
60	Effects of screen-responsive visualization on data comprehension. Information Visualization, 2021, 20, 229-244.	1.9	2
61	Integrating annotations into multidimensional visual dashboards. Information Visualization, 2022, 21, 270-284.	1.9	2
62	Topology-aware space distortion for structured visualization spaces. Information Visualization, 2022, 21, 166-181.	1.9	1
63	Workshop on Audio-Visual Analytics. , 2022, , .		1
64	Mushaca: A 3-Degrees-of-Freedom Mouse Supporting Rotation. International Journal of Human-Computer Interaction, 2016, 32, 481-492.	4.8	0