Heidrun Schumann

List of Publications by Year
in descending order

67	2,757	430754	223716
papers	citations	18 h-index	46 g-index

72	72	72	2031
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visualization of Time-Oriented Data. Human-computer Interaction Series, 2011, , .	0.4	462
2	Space, time and visual analytics. International Journal of Geographical Information Science, 2010, 24, 1577-1600.	2.2	342
3	Visualizing time-oriented dataâ€"A systematic view. Computers and Graphics, 2007, 31, 401-409.	1.4	261
4	Stacking-Based Visualization of Trajectory Attribute Data. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2565-2574.	2.9	227
5	Visual Methods for Analyzing Time-Oriented Data. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 47-60.	2.9	196
6	A Design Space of Visualization Tasks. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2366-2375.	2.9	138
7	The Design Space of Implicit Hierarchy Visualization: A Survey. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 393-411.	2.9	115
8	Axes-based visualizations with radial layouts. , 2004, , .		102
9	CGVâ€"An interactive graph visualization system. Computers and Graphics, 2009, 33, 660-678.	1.4	95
10	Tangible views for information visualization. , 2010, , .		77
11	Particle-based labeling: Fast point-feature labeling without obscuring other visual features. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1237-1244.	2.9	51
12	In Situ Exploration of Large Dynamic Networks. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2334-2343.	2.9	51
13	2D and 3D presentation of spatial data: A systematic review. , 2014, , .		45
14	Model-Driven Design for the Visual Analysis of Heterogeneous Data. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 998-1010.	2.9	42
15	A Review and Characterization of Progressive Visual Analytics. Informatics, 2018, 5, 31.	2.4	36
16	A Modular Degree-of-Interest Specification for the Visual Analysis of Large Dynamic Networks. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 337-350.	2.9	34
17	An Enhanced Visualization Process Model for Incremental Visualization. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 1830-1842.	2.9	32
18	Methods for the visualization of clustered climate data. Computational Statistics, 2004, 19, 75-94.	0.8	30

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19	Supporting the Visual Analysis of Dynamic Networks by Clustering associated Temporal Attributes. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2267-2276.	2.9	28
20	Towards a conceptual framework for visual analytics of time and time-oriented data. , 2007, , .		26
21	Visualization of Trajectory Attributes in Spaceâ€“Time Cube and Trajectory Wall. Lecture Notes in Geoinformation and Cartography, 2014, , 157-163.	0.5	24
22	General rectangular fisheye views for 2D graphics. Computers and Graphics, 2001, 25, 609-617.	1.4	22
23	Visual support for the understanding of simulation processes. , 2009, , .		19
24	GeoVisual analytics: interactivity, dynamics, and scale. Cartography and Geographic Information Science, 2016, 43, 1-2.	1.4	18
25	Visualizing Tags with Spatiotemporal References. , 2011, , .		16
26	A systematic view on data descriptors for the visual analysis of tabular data. Information Visualization, 2017, 16, 232-256.	1.2	16
27	Visual analysis of retinal changes with optical coherence tomography. Visual Computer, 2018, 34, 1209-1224.	2.5	14
28	Point-Based Visualization for Large Hierarchies. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 598-611.	2.9	13
29	Heterogeneity-based guidance for exploring multiscale data in systems biology. , 2012, , .		13
30	Making Parameter Dependencies of Timeâ€Series Segmentation Visually Understandable. Computer Graphics Forum, 2020, 39, 607-622.	1.8	13
31	Navigation Recommendations for Exploring Hierarchical Graphs. Lecture Notes in Computer Science, 2013, , 36-47.	1.0	13
32	Visualizing 3D Terrain, Geo-Spatial Data, and Uncertainty. Informatics, 2017, 4, 6.	2.4	11
33	Responsive Matrix Cells: A Focus+Context Approach for Exploring and Editing Multivariate Graphs. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1644-1654.	2.9	11
34	Enhanced Grid-Based Visual Analysis of Retinal Layer Thickness with Optical Coherence Tomography. Information (Switzerland), 2019, 10, 266.	1.7	10
35	Visual and analytical extensions for the table lens. , 2008, , .		9
36	Supporting activity recognition by visual analytics. , 2015, , .		9

#	Article	IF	Citations
37	Smart Lenses. Lecture Notes in Computer Science, 2008, , 178-189.	1.0	8
38	Adaptive Layout for Interactive Documents. Lecture Notes in Computer Science, 2008, , 247-254.	1.0	8
39	Service-Oriented Information Visualization for Smart Environments. , 2009, , .		7
40	Deviation Maps for Understanding Thickness Changes of Inner Retinal Layers in Children with Type 1 Diabetes Mellitus. Current Eye Research, 2019, 44, 746-752.	0.7	7
41	Direct Visual Editing of Node Attributes in Graphs. Informatics, 2016, 3, 17.	2.4	6
42	Smart Views in Smart Environments. Lecture Notes in Computer Science, 2011, , 1-12.	1.0	6
43	Physical Navigation to Support Graph Exploration on a Large High-Resolution Display. Lecture Notes in Computer Science, 2011, , 496-507.	1.0	6
44	Visualization of Gene Combinations. , 2008, , .		5
45	GeoVA(t) â€“ Geospatial visual analytics: focus on time. Journal of Location Based Services, 2010, 4, 141-146.	1.4	5
46	Smart Interaction Management: An Interaction Approach for Smart Meeting Rooms. , 2012, , .		5
47	Constructing and visualizing chemical reaction networks from pi-calculus models. Formal Aspects of Computing, 2013, 25, 723-742.	1.4	5
48	Visualization of Features in 3D Terrain. ISPRS International Journal of Geo-Information, 2017, 6, 357.	1.4	4
49	Thickness of Intraretinal Layers in Patients with Type 2 Diabetes Mellitus Depending on a Concomitant Diabetic Neuropathy: Results of a Cross-Sectional Study Using Deviation Maps for OCT Data Analysis. Biomedicines, 2020, 8, 190.	1.4	4
50	Lightweight Coordination of Multiple Independent Visual Analytics Tools. , 2019, , .		4
51	Visualization to Support Augmented Web Browsing. , 2013, , .		3
52	Interactive Presentation of Geo-Spatial Climate Data in Multi-Display Environments. ISPRS International Journal of Geo-Information, 2015, 4, 493-514.	1.4	3
53	Supporting presentation and discussion of visualization results in smart meeting rooms. Visual Computer, 2015, 31, 1271-1286.	2.5	3
54	Combining Visual Cleansing and Exploration for Clinical Data. , 2019, , .		3

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55	GeoVisual analytics, time to focus on time. Information Visualization, 2014, 13, 187-189.	1.2	2
56	Sequencing of categorical time series. , 2015, , .		2
57	Grid-based Exploration of OCT Thickness Data of Intraretinal Layers. , 2019, , .		2
58	A data-driven platform for the coordination of independent Visual Analytics tools. Computers and Graphics, 2022, , .	1.4	2
59	Analyzing simulations of biochemical systems with feature-based visual analytics. Computers and Graphics, 2014, 38, 18-26.	1.4	1
60	Web-Based Exploration of Photos with Time and Geospace. Lecture Notes in Business Information Processing, 2013, , 153-166.	0.8	1
61	A Layered Approach to Lightweight Toolchaining in Visual Analytics. Communications in Computer and Information Science, 2020, , 313-337.	0.4	1
62	Visual support for modeling and simulation of cell biological systems. , 2007, , .		0
63	Towards Accurate Visualization and Measurement of Localized Changes in Intraretinal Layer Thickness. , 2019, , .		0
64	Visualization Aspects. Human-computer Interaction Series, 2011, , 69-103.	0.4	0
65	Analytical Support. Human-computer Interaction Series, 2011, , 127-145.	0.4	0
66	A Novel Infrastructure for Supporting Display Ecologies. Lecture Notes in Computer Science, 2015, , 722-732.	1.0	0
67	A Characterization of Data Exchange between Visual Analytics Tools. , 2020, , .		0