Stefan Bruckner

List of Publications by Year
in descending order

88 papers	1,664 citations	394421 19 h-index	345221 36 g-index
90 all docs	90 docs citations	90 times ranked	1129 citing authors

#	Article	IF	Citations
1	Visual Parameter Space Analysis: A Conceptual Framework. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2161-2170.	4.4	146
2	Result-Driven Exploration of Simulation Parameter Spaces for Visual Effects Design. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 1468-1476.	4.4	96
3	Exploded Views for Volume Data. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 1077-1084.	4.4	95
4	Style Transfer Functions for Illustrative Volume Rendering. Computer Graphics Forum, 2007, 26, 715-724.	3.0	90
5	Enhancing Depth-Perception with Flexible Volumetric Halos. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1344-1351.	4.4	76
6	Isosurface Similarity Maps. Computer Graphics Forum, 2010, 29, 773-782.	3.0	75
7	Illustrative Context-Preserving Exploration of Volume Data. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 1559-1569.	4.4	74
8	VolumeShop: An Interactive System for Direct Volume Illustration. , 0, , .		53
9	BrainGazer - Visual Queries for Neurobiology Research. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1497-1504.	4.4	53
10	Instant Volume Visualization using Maximum Intensity Difference Accumulation. Computer Graphics Forum, 2009, 28, 775-782.	3.0	52
11	Semantic Layers for Illustrative Volume Rendering. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1336-1343.	4.4	48
12	A Multidirectional Occlusion Shading Model for Direct Volume Rendering. Computer Graphics Forum, 2010, 29, 883-891.	3.0	40
13	VAICo: Visual Analysis for Image Comparison. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2090-2099.	4.4	36
14	Volume visualization based on statistical transfer-function spaces. , 2010, , .		34
15	Illustrative visualization. Computer Graphics, 2008, 42, 1-8.	0.1	33
16	VolumeShop. , 2005, , .		32
17	Visual Analysis of Spatio–Temporal Data: Applications in Weather Forecasting. Computer Graphics Forum, 2015, 34, 381-390.	3.0	27
18	VolumeShop: An Interactive System for Direct Volume Illustration. , 0, , .		27

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19	LiveSync: Deformed Viewing Spheres for Knowledge-Based Navigation. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1544-1551.	4.4	26
20	Volume Analysis Using Multimodal Surface Similarity. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1969-1978.	4.4	25
21	Continuous Levels‐of‐Detail and Visual Abstraction for Seamless Molecular Visualization. Computer Graphics Forum, 2014, 33, 276-287.	3.0	25
22	ViSlang: A System for Interpreted Domain-Specific Languages for Scientific Visualization. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2388-2396.	4.4	23
23	A refined data addressing and processing scheme to accelerate volume raycasting. Computers and Graphics, 2004, 28, 719-729.	2.5	22
24	Vessel Visualization using Curvicircular Feature Aggregation. Computer Graphics Forum, 2013, 32, 231-240.	3.0	22
25	Hybrid visibility compositing and masking for illustrative rendering. Computers and Graphics, 2010, 34, 361-369.	2.5	20
26	Seismic volume visualization for horizon extraction. , 2010, , .		20
27	PelVis: Atlas-based Surgical Planning for Oncological Pelvic Surgery. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 741-750.	4.4	19
28	Interaction‐Dependent Semantics for Illustrative Volume Rendering. Computer Graphics Forum, 2008, 27, 847-854.	3.0	18
29	Biopsy Planner – Visual Analysis for Needle Pathway Planning in Deep Seated Brain Tumor Biopsy. Computer Graphics Forum, 2012, 31, 1085-1094.	3.0	16
30	Illustrative Membrane Clipping. Computer Graphics Forum, 2012, 31, 905-914.	3.0	15
31	YMCA &#x2014; Your mesh comparison application. , 2014, , .		14
32	JiTTree: A Just-in-Time Compiled Sparse GPU Volume Data Structure. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 1025-1034.	4.4	14
33	Interactive Dynamic Volume Illumination with Refraction and Caustics. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 984-993.	4.4	14
34	Vessel Visualization using Curved Surface Reformation. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2858-2867.	4.4	13
35	Managing Spatial Selections With Contextual Snapshots. Computer Graphics Forum, 2014, 33, 132-144.	3.0	13
36	Vol^{2}velle: Printable Interactive Volume Visualization. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 861-870.	4.4	13

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37	Visualization in Connectomics. Mathematics and Visualization, 2014, , 221-245.	0.6	13
38	Instant convolution shadows for volumetric detail mapping. ACM Transactions on Graphics, 2013, 32, 1-18.	7.2	12
39	Albero: A Visual Analytics Approach for Probabilistic Weather Forecasting. Computer Graphics Forum, 2017, 36, 135-144.	3.0	12
40	Contextual picking of volumetric structures. , 2009, , .		11
41	A Model of Spatial Directness in Interactive Visualization. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 2514-2528.	4.4	11
42	Memory efficient acceleration structures and techniques for CPU-based volume raycasting of large data. , 0, , .		10
43	Interactively illustrating polymerization using three-level model fusion. BMC Bioinformatics, 2014, 15, 345.	2.6	10
44	Automatized summarization of multiplayer games. , 2015, , .		8
45	Live ultrasound-based particle visualization of blood flow in the heart. , 2014, , .		7
46	A Fractional Cartesian Composition Model for Semi-Spatial Comparative Visualization Design. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 851-860.	4.4	7
47	Interactive visual exploration of metabolite ratios in MR spectroscopy studies. Computers and Graphics, 2020, 92, 1-12.	2.5	7
48	Similarity-Based Exploded Views. Lecture Notes in Computer Science, 2008, , 154-165.	1.3	7
49	Guided Volume Editing based on Histogram Dissimilarity. Computer Graphics Forum, 2015, 34, 91-100.	3.0	6
50	Semantic Snapping for Guided Multi-View Visualization Design. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 43-53.	4.4	6
51	Smart super views â€" A knowledge-assisted interface for medical visualization. , 2012, , .		5
52	Outputâ€Sensitive Filtering of Streaming Volume Data. Computer Graphics Forum, 2017, 36, 249-262.	3.0	5
53	Dynamic Visibilityâ€Driven Molecular Surfaces. Computer Graphics Forum, 2019, 38, 317-329.	3.0	5
54	Memento: Localized Timeâ€Warping for Spatioâ€Temporal Selection. Computer Graphics Forum, 2020, 39, 231-243.	3.0	5

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55	VA‐TRAC: Geospatial Trajectory Analysis for Monitoring, Identification, and Verification in Fishing Vessel Operations. Computer Graphics Forum, 2020, 39, 101-114.	3.0	5
56	RadEx: Integrated Visual Exploration of Multiparametric Studies for Radiomic Tumor Profiling. Computer Graphics Forum, 2020, 39, 611-622.	3.0	5
57	Visception: An interactive visual framework for nested visualization design. Computers and Graphics, 2020, 92, 13-27.	2.5	5
58	DimLift: Interactive Hierarchical Data Exploration Through Dimensional Bundling. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 2908-2922.	4.4	5
59	Hornero: Thunderstorms Characterization using Visual Analytics. Computer Graphics Forum, 2021, 40, 299-310.	3.0	5
60	Towards Advanced Interactive Visualization for Virtual Atlases. Advances in Experimental Medicine and Biology, 2019, 1156, 85-96.	1.6	5
61	Visualization and Quantification for Interactive Analysis of Neural Connectivity in <i>Drosophila</i>. Computer Graphics Forum, 2017, 36, 160-171.	3.0	4
62	Data-sensitive visual navigation. Computers and Graphics, 2017, 67, 77-85.	2.5	4
63	Sunspot Plots: Model‐based Structure Enhancement for Dense Scatter Plots. Computer Graphics Forum, 2020, 39, 551-563.	3.0	4
64	Vis-a-Vis: Visual Exploration of Visualization Source Code Evolution. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3153-3167.	4.4	4
65	Considering best practices in color palettes for molecular visualizations. Journal of Integrative Bioinformatics, 2022, 19, .	1.5	4
66	Contextual Snapshots. , 2013, , .		3
67	GPU-based large-scale visualization. , 2013, , .		3
68	ViviSection: Skeleton‐based Volume Editing. Computer Graphics Forum, 2013, 32, 461-470.	3.0	3
69	Scale-Space Splatting: Reforming Spacetime for Cross-Scale Exploration of Integral Measures in Molecular Dynamics. IEEE Transactions on Visualization and Computer Graphics, 2019, 26, 1-1.	4.4	3
70	LinesLab: A Flexible Low‐Cost Approach for the Generation of Physical Monochrome Art. Computer Graphics Forum, 2019, 38, 110-124.	3.0	3
71	SplitStreams: A Visual Metaphor for Evolving Hierarchies. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3571-3584.	4.4	3
72	Line Weaver: Importance‐Driven Order Enhanced Rendering of Dense Line Charts. Computer Graphics Forum, 2021, 40, 399-410.	3.0	3

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73	Integrated Dual Analysis of Quantitative and Qualitative High-Dimensional Data. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 2953-2966.	4.4	3
74	Measures in Visualization Space. , 2020, , 39-59.		3
75	VOTS: VOlume doTS as a Point-Based Representation of Volumetric Data. Computer Graphics Forum, 2004, 23, 661-668.	3.0	2
76	Integrating volume visualization techniques into medical applications. , 2008, , .		2
77	Graphical histories of information foraging. , 2014, , .		2
78	Towards Interactive Visual Exploration of Parallel Programs using a Domain-Specific Language. , 2016, , .		2
79	Smart Surrogate Widgets for Direct Volume Manipulation. , 2018, , .		2
80	Firefly: Virtual Illumination Drones for Interactive Visualization. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1204-1213.	4.4	2
81	HeartPad. , 2012, , .		1
82	Comparing Cross-Sections and 3D Renderings for Surface Matching Tasks Using Physical Ground Truths. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 781-790.	4.4	1
83	Data-sensitive visual navigation. , 2017, , .		1
84	Eurographics Young Researcher Award. Computer Graphics Forum, 2011, 30, xix-xix.	3.0	0
85	Unified Boundary-Aware Texturing for Interactive Volume Rendering. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 1942-1955.	4.4	0
86	Guest editorialâ€"Uncertainty and parameter space analysis in visualization. Computers and Graphics, 2014, 41, A1-A2.	2.5	0
87	Guest Editorsâ€™ Introduction: Special Section on IEEE PacificVis 2018. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 1879-1880.	4.4	0
88	The Haunted Swamps of Heuristics: Uncertainty in Problem Solving. Mathematics and Visualization, 2014, , 51-60.	0.6	0