

# Stefan Bruckner

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Semantic Snapping for Guided Multi-View Visualization Design. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 43-53.	4.4	6
2	Considering best practices in color palettes for molecular visualizations. Journal of Integrative Bioinformatics, 2022, 19, .	1.5	4
3	SplitStreams: A Visual Metaphor for Evolving Hierarchies. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3571-3584.	4.4	3
4	Vis-a-Vis: Visual Exploration of Visualization Source Code Evolution. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3153-3167.	4.4	4
5	Line Weaver: Importance-Driven Order Enhanced Rendering of Dense Line Charts. Computer Graphics Forum, 2021, 40, 399-410.	3.0	3
6	DimLift: Interactive Hierarchical Data Exploration Through Dimensional Bundling. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 2908-2922.	4.4	5
7	Hornero: Thunderstorms Characterization using Visual Analytics. Computer Graphics Forum, 2021, 40, 299-310.	3.0	5
8	Integrated Dual Analysis of Quantitative and Qualitative High-Dimensional Data. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 2953-2966.	4.4	3
9	Memento: Localized Time-Warping for Spatio-Temporal Selection. Computer Graphics Forum, 2020, 39, 231-243.	3.0	5
10	Sunspot Plots: Model-Based Structure Enhancement for Dense Scatter Plots. Computer Graphics Forum, 2020, 39, 551-563.	3.0	4
11	VA-TRAC: Geospatial Trajectory Analysis for Monitoring, Identification, and Verification in Fishing Vessel Operations. Computer Graphics Forum, 2020, 39, 101-114.	3.0	5
12	RadEx: Integrated Visual Exploration of Multiparametric Studies for Radiomic Tumor Profiling. Computer Graphics Forum, 2020, 39, 611-622.	3.0	5
13	Interactive visual exploration of metabolite ratios in MR spectroscopy studies. Computers and Graphics, 2020, 92, 1-12.	2.5	7
14	Visception: An interactive visual framework for nested visualization design. Computers and Graphics, 2020, 92, 13-27.	2.5	5
15	Measures in Visualization Space. , 2020, , 39-59.		3
16	A Model of Spatial Directness in Interactive Visualization. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 2514-2528.	4.4	11
17	Firefly: Virtual Illumination Drones for Interactive Visualization. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1204-1213.	4.4	2
18	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

#	ARTICLE	IF	CITATIONS
19	Dynamic Visibility-Driven Molecular Surfaces. Computer Graphics Forum, 2019, 38, 317-329.	3.0	5
20	LinesLab: A Flexible Low-Cost Approach for the Generation of Physical Monochrome Art. Computer Graphics Forum, 2019, 38, 110-124.	3.0	3
21	Towards Advanced Interactive Visualization for Virtual Atlases. Advances in Experimental Medicine and Biology, 2019, 1156, 85-96.	1.6	5
22	Interactive Dynamic Volume Illumination with Refraction and Caustics. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 984-993.	4.4	14
23	Guest Editors™ Introduction: Special Section on IEEE PacificVis 2018. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 1879-1880.	4.4	0
24	Smart Surrogate Widgets for Direct Volume Manipulation. , 2018, , .		2
25	Output-Sensitive Filtering of Streaming Volume Data. Computer Graphics Forum, 2017, 36, 249-262.	3.0	5
26	Visualization and Quantification for Interactive Analysis of Neural Connectivity in <i>Drosophila</i> . Computer Graphics Forum, 2017, 36, 160-171.	3.0	4
27	Data-sensitive visual navigation. Computers and Graphics, 2017, 67, 77-85.	2.5	4
28	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
29	Albero: A Visual Analytics Approach for Probabilistic Weather Forecasting. Computer Graphics Forum, 2017, 36, 135-144.	3.0	12
30	Vol <sup>2</sup> velle: Printable Interactive Volume Visualization. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 861-870.	4.4	13
31	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
32	PelVis: Atlas-based Surgical Planning for Oncological Pelvic Surgery. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 741-750.	4.4	19
33	Data-sensitive visual navigation. , 2017, , .		1
34	Towards Interactive Visual Exploration of Parallel Programs using a Domain-Specific Language. , 2016, , .		2
35	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
36	Visual Analysis of Spatio-Temporal Data: Applications in Weather Forecasting. Computer Graphics Forum, 2015, 34, 381-390.	3.0	27

#	ARTICLE	IF	CITATIONS
37	Guided Volume Editing based on Histogram Dissimilarity. Computer Graphics Forum, 2015, 34, 91-100.	3.0	6
38	Automatized summarization of multiplayer games. , 2015, , .		8
39	Continuous Levels of Detail and Visual Abstraction for Seamless Molecular Visualization. Computer Graphics Forum, 2014, 33, 276-287.	3.0	25
40	Interactively illustrating polymerization using three-level model fusion. BMC Bioinformatics, 2014, 15, 345.	2.6	10
41	Graphical histories of information foraging. , 2014, , .		2
42	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
43	Live ultrasound-based particle visualization of blood flow in the heart. , 2014, , .		7
44	Managing Spatial Selections With Contextual Snapshots. Computer Graphics Forum, 2014, 33, 132-144.	3.0	13
45	Guest editorial "Uncertainty and parameter space analysis in visualization. Computers and Graphics, 2014, 41, A1-A2.	2.5	0
46	Visual Parameter Space Analysis: A Conceptual Framework. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2161-2170.	4.4	146
47	YMCA &#x2014; Your mesh comparison application. , 2014, , .		14
48	The Haunted Swamps of Heuristics: Uncertainty in Problem Solving. Mathematics and Visualization, 2014, , 51-60.	0.6	0
49	Visualization in Connectomics. Mathematics and Visualization, 2014, , 221-245.	0.6	13
50	VAICo: Visual Analysis for Image Comparison. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2090-2099.	4.4	36
51	Vessel Visualization using Curved Surface Reformation. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2858-2867.	4.4	13
52	Contextual Snapshots. , 2013, , .		3
53	Instant convolution shadows for volumetric detail mapping. ACM Transactions on Graphics, 2013, 32, 1-18.	7.2	12
54	GPU-based large-scale visualization. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
55	ViviSection: Skeleton-based Volume Editing. Computer Graphics Forum, 2013, 32, 461-470.	3.0	3
56	Vessel Visualization using Curvicircular Feature Aggregation. Computer Graphics Forum, 2013, 32, 231-240.	3.0	22
57	HeartPad. , 2012, , .		1
58	Smart super views – A knowledge-assisted interface for medical visualization. , 2012, , .		5
59	Unified Boundary-Aware Texturing for Interactive Volume Rendering. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 1942-1955.	4.4	0
60	Illustrative Membrane Clipping. Computer Graphics Forum, 2012, 31, 905-914.	3.0	15
61	Biopsy Planner – Visual Analysis for Needle Pathway Planning in Deep Seated Brain Tumor Biopsy. Computer Graphics Forum, 2012, 31, 1085-1094.	3.0	16
62	Eurographics Young Researcher Award. Computer Graphics Forum, 2011, 30, xix-xix.	3.0	0
63	Volume Analysis Using Multimodal Surface Similarity. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1969-1978.	4.4	25
64	Hybrid visibility compositing and masking for illustrative rendering. Computers and Graphics, 2010, 34, 361-369.	2.5	20
65	Isosurface Similarity Maps. Computer Graphics Forum, 2010, 29, 773-782.	3.0	75
66	A Multidirectional Occlusion Shading Model for Direct Volume Rendering. Computer Graphics Forum, 2010, 29, 883-891.	3.0	40
67	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
68	Volume visualization based on statistical transfer-function spaces. , 2010, , .		34
69	Seismic volume visualization for horizon extraction. , 2010, , .		20
70	Instant Volume Visualization using Maximum Intensity Difference Accumulation. Computer Graphics Forum, 2009, 28, 775-782.	3.0	52
71	Contextual picking of volumetric structures. , 2009, , .		11
72	BrainGazer - Visual Queries for Neurobiology Research. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1497-1504.	4.4	53

#	ARTICLE	IF	CITATIONS
73	Interaction-Dependent Semantics for Illustrative Volume Rendering. Computer Graphics Forum, 2008, 27, 847-854.	3.0	18
74	Integrating volume visualization techniques into medical applications. , 2008, , .		2
75	Similarity-Based Exploded Views. Lecture Notes in Computer Science, 2008, , 154-165.	1.3	7
76	Illustrative visualization. Computer Graphics, 2008, 42, 1-8.	0.1	33
77	Enhancing Depth-Perception with Flexible Volumetric Halos. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1344-1351.	4.4	76
78	LiveSync: Deformed Viewing Spheres for Knowledge-Based Navigation. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1544-1551.	4.4	26
79	Semantic Layers for Illustrative Volume Rendering. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1336-1343.	4.4	48
80	Style Transfer Functions for Illustrative Volume Rendering. Computer Graphics Forum, 2007, 26, 715-724.	3.0	90
81	Exploded Views for Volume Data. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 1077-1084.	4.4	95
82	Illustrative Context-Preserving Exploration of Volume Data. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 1559-1569.	4.4	74
83	VolumeShop. , 2005, , .		32
84	VOTS: VOlume doTS as a Point-Based Representation of Volumetric Data. Computer Graphics Forum, 2004, 23, 661-668.	3.0	2
85	A refined data addressing and processing scheme to accelerate volume raycasting. Computers and Graphics, 2004, 28, 719-729.	2.5	22
86	Memory efficient acceleration structures and techniques for CPU-based volume raycasting of large data. , 0, , .		10
87	VolumeShop: An Interactive System for Direct Volume Illustration. , 0, , .		53
88	VolumeShop: An Interactive System for Direct Volume Illustration. , 0, , .		27