Klaus Mueller

List of Publications by Year
in descending order

66 papers	1,079 citations	687363 13 h-index	477307 29 g-index
70 all docs	70 docs citations	70 times ranked	944 citing authors

#	Article	IF	Citations
1	IEEE VR 2022 Introducing the Special Issue. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, vi-vi.	4.4	0
2	Cluster Appearance Glyphs: A Methodology for Illustrating High-Dimensional Data Patterns in 2-D Data Layouts. Information (Switzerland), 2022, 13, 3.	2.9	0
3	Identifying the skeptics and the undecided through visual cluster analysis of local network geometry. Visual Informatics, 2022, 6, 11-22.	4.4	5
4	Taxonomizer: Interactive Construction of Fully Labeled Hierarchical Groupings from Attributes of Multivariate Data. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2875-2890.	4.4	5
5	Infomages: Embedding Data into Thematic Images. Computer Graphics Forum, 2020, 39, 593-606.	3.0	6
6	State of the Journal. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 1440-1441.	4.4	0
7	Metal Artifact Reduction in X-ray CT via Ray Profile Correction. Applied Sciences (Switzerland), 2020, 10, 66.	2.5	2
8	Visual Analytics for Scientific Data in NSLS-II. , 2020, , 159-168.		0
9	A Message from the New Editor-in-Chief. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1267-1268.	4.4	0
10	ColorMapND: A Data-Driven Approach and Tool for Mapping Multivariate Data to Color. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1361-1377.	4.4	21
11	A Look-Up Table-Based Ray Integration Framework for 2-D/3-D Forward and Back Projection in X-Ray CT. IEEE Transactions on Medical Imaging, 2018, 37, 361-371.	8.9	16
12	Graphoto: Aesthetically Pleasing Charts for Casual Information Visualization. IEEE Computer Graphics and Applications, 2018, 38, 67-82.	1.2	6
13	Streaming Classical Multidimensional Scaling. , 2018, , .		2
14	Coding Ants: Optimization of GPU code using ant colony optimization. Computer Languages, Systems and Structures, 2018, 54, 119-138.	1.4	2
15	A GPU-Accelerated Multivoxel Update Scheme for Iterative Coordinate Descent (ICD) Optimization in Statistical Iterative CT Reconstruction (SIR). IEEE Transactions on Computational Imaging, 2018, 4, 355-365.	4.4	6
16	A Visual Analytics Approach for Categorical Joint Distribution Reconstruction from Marginal Projections. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 51-60.	4.4	16
17	Progressive clustering of big data with GPU acceleration and visualization. , 2017, , .		1
18	RadViz Deluxe: An Attribute-Aware Display for Multivariate Data. Processes, 2017, 5, 75.	2.8	15

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19	Big Data Management with Incremental K-Means Trees–GPU-Accelerated Construction and Visualization. Informatics, 2017, 4, 24.	3.9	7
20	A framework to visualize temporal behavioral relationships in streaming multivariate data. , 2016, , .		7
21	Model-driven visual analytics for big data. , 2016, , .		4
22	MADR: metal artifact detection and reduction. Proceedings of SPIE, 2016, , .	0.8	1
23	The Data Context Map: Fusing Data and Attributes into a Unified Display. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 121-130.	4.4	41
24	The Visual Causality Analyst: An Interactive Interface for Causal Reasoning. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 230-239.	4.4	49
25	StreamVisND: Visualizing relationships in streaming multivariate data. , 2015, , .		1
26	A study of sparse detector designs with interpolation for multi-slice spiral CT. , 2015, , .		0
27	Improving the fidelity of contextual data layouts using a Generalized Barycentric Coordinates framework. , 2015, , .		6
28	Low dose CT image restoration using a database of image patches. Physics in Medicine and Biology, 2015, 60, 869-882.	3.0	21
29	WhereAmI: Energy Efficient Positioning using Partial Textual Signatures. , 2015, , .		4
30	Balanced layouts using the composite data-variable matrix. , 2014, , .		0
31	Does 3D really make sense for visual cluster analysis? yes!. , 2014, , .		8
32	Rapid rabbit: Highly optimized GPU accelerated cone-beam CT reconstruction. , 2013, , .		8
33	An interactive visual analytics framework for multi-field data in a geo-spatial context. Tsinghua Science and Technology, 2013, 18, 111-124.	6.1	11
34	DQS advisor: a visual interface and knowledge-based system to balance dose, quality, and reconstruction speed in iterative CT reconstruction with application to NLM-regularization. Physics in Medicine and Biology, 2013, 58, 7857-7873.	3.0	11
35	Low dose CT image restoration using a localized patch database. , 2013, , .		2
36	GPU-accelerated incremental correlation clustering of large data with visual feedback. , 2013, , .		3

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37	VACT: Visualization-aware CT reconstruction. , 2013, , .		0
38	Creating optimal code for GPUâ€accelerated CT reconstruction using ant colony optimization. Medical Physics, 2013, 40, 031110.	3.0	9
39	Databaseâ€assisted lowâ€dose CT image restoration. Medical Physics, 2013, 40, 031109.	3.0	18
40	Human Computation in Visualization: Using Purpose Driven Games for Robust Evaluation of Visualization Algorithms. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2104-2113.	4.4	13
41	A network-based interface for the exploration of high-dimensional data spaces. , 2012, , .		29
42	A Data-Driven Approach to Hue-Preserving Color-Blending. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2122-2129.	4.4	11
43	Efficient lowâ€dose CT artifact mitigation using an artifactâ€matched prior scan. Medical Physics, 2012, 39, 4748-4760.	3.0	24
44	Can Computers Master the Art of Communication?: A Focus on Visual Analytics. IEEE Computer Graphics and Applications, 2011, 31, 14-21.	1.2	5
45	Cache-aware GPU memory scheduling scheme for CT back-projection. , 2010, , .		3
46	A visual analytics approach to model learning. , 2010, , .		13
47	Evaluating popular non-linear image processing filters for their use in regularized iterative CT. , 2010, , .		6
48	Optimal sampling lattices for high-fidelity CT reconstruction. , 2009, , .		2
49	Accelerating regularized iterative ct reconstruction on commodity graphics hardware (GPU). , 2009, , .		3
50	Color Design for Illustrative Visualization. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1739-1754.	4.4	96
51	Model-driven Visual Analytics. , 2008, , .		30
52	Real-time 3D computed tomographic reconstruction using commodity graphics hardware. Physics in Medicine and Biology, 2007, 52, 3405-3419.	3.0	203
53	Melting and flowing in multiphase environment. Computers and Graphics, 2006, 30, 519-528.	2.5	26
54	Uniform texture synthesis and texture mapping using global parameterization. Visual Computer, 2005, 21, 801-810.	3.5	12

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55	Guest Editors' Introduction: Special Section on IEEE Visualization Applications. IEEE Transactions on Visualization and Computer Graphics, 2005, 11, 483-484.	4.4	0
56	Accelerated, high-quality refraction computations for volume graphics. Volume Graphics International Symposium on Volume Graphics, 2005, , .	2.0	0
57	Accelerating popular tomographic reconstruction algorithms on commodity PC graphics hardware. IEEE Transactions on Nuclear Science, 2005, 52, 654-663.	2.0	193
58	Hardware assisted multichannel volume rendering. , 2003, , .		7
59	FastSplats: optimized splatting on rectilinear grids. , 0, , .		3
60	Empty space skipping and occlusion clipping for texture-based volume rendering. , 0, , .		47
61	Towards a unified framework for rapid 3D computed tomography on commodity GPUs. , 0, , .		8
62	Dispersion simulation and visualization for urban security. , 0, , .		7
63	Ultra-fast 3D filtered backprojection on commodity graphics hardware. , 0, , .		13
64	Feature preserving distance fields. , 0, , .		1
65	Reconstruction for proton computed tomography: a practical approach. , 0, , .		3
66	Fast Marching Method to Correct for Refraction in Ultrasound Computed Tomography. , 0, , .		7