

# Klaus Mueller

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2872341/publications.pdf>

Version: 2024-02-01

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  | Real-time 3D computed tomographic reconstruction using commodity graphics hardware. Physics in Medicine and Biology, 2007, 52, 3405-3419.   | 3.0 | 203       |
| 2  | Accelerating popular tomographic reconstruction algorithms on commodity PC graphics hardware. IEEE Transactions on Nuclear Science, 2005, 52, 654-663.                              | 2.0 | 193       |
| 3  | Color Design for Illustrative Visualization. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1739-1754.   | 4.4 | 96        |
| 4  | The Visual Causality Analyst: An Interactive Interface for Causal Reasoning. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 230-239.                           | 4.4 | 49        |
| 5  | Empty space skipping and occlusion clipping for texture-based volume rendering. , 0, , .  |     | 47        |
| 6  | 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        |
| 7  | Model-driven Visual Analytics. , 2008, , .  |     | 30        |
| 8  | A network-based interface for the exploration of high-dimensional data spaces. , 2012, , .  |     | 29        |
| 9  | Melting and flowing in multiphase environment. Computers and Graphics, 2006, 30, 519-528.   | 2.5 | 26        |
| 10 | Efficient low-dose CT artifact mitigation using an artifact-matched prior scan. Medical Physics, 2012, 39, 4748-4760.   | 3.0 | 24        |
| 11 | Low dose CT image restoration using a database of image patches. Physics in Medicine and Biology, 2015, 60, 869-882.  | 3.0 | 21        |
| 12 | ColorMap <sup>ND</sup> : 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        |
| 13 | Database-assisted low-dose CT image restoration. Medical Physics, 2013, 40, 031109.   | 3.0 | 18        |
| 14 | 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        |
| 15 | 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        |
| 16 | RadViz Deluxe: An Attribute-Aware Display for Multivariate Data. Processes, 2017, 5, 75.  | 2.8 | 15        |
| 17 | Ultra-fast 3D filtered backprojection on commodity graphics hardware. , 0, , .  |     | 13        |
| 18 | A visual analytics approach to model learning. , 2010, , .  |     | 13        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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        |
| 20 | Uniform texture synthesis and texture mapping using global parameterization. Visual Computer, 2005, 21, 801-810.   | 3.5 | 12        |
| 21 | A Data-Driven Approach to Hue-Preserving Color-Blending. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2122-2129.  | 4.4 | 11        |
| 22 | 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        |
| 23 | 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        |
| 24 | Creating optimal code for GPU-accelerated CT reconstruction using ant colony optimization. Medical Physics, 2013, 40, 031110.  | 3.0 | 9         |
| 25 | Towards a unified framework for rapid 3D computed tomography on commodity GPUs. , 0, , .   |     | 8         |
| 26 | Rapid rabbit: Highly optimized GPU accelerated cone-beam CT reconstruction. , 2013, , .  |     | 8         |
| 27 | Does 3D really make sense for visual cluster analysis? yes!. , 2014, , .   |     | 8         |
| 28 | Hardware assisted multichannel volume rendering. , 2003, , .   |     | 7         |
| 29 | Dispersion simulation and visualization for urban security. , 0, , .   |     | 7         |
| 30 | Fast Marching Method to Correct for Refraction in Ultrasound Computed Tomography. , 0, , .   |     | 7         |
| 31 | A framework to visualize temporal behavioral relationships in streaming multivariate data. , 2016, , .   |     | 7         |
| 32 | Big Data Management with Incremental K-Means Trees-GPU-Accelerated Construction and Visualization. Informatics, 2017, 4, 24.   | 3.9 | 7         |
| 33 | Evaluating popular non-linear image processing filters for their use in regularized iterative CT. , 2010, , .  |     | 6         |
| 34 | Improving the fidelity of contextual data layouts using a Generalized Barycentric Coordinates framework. , 2015, , .   |     | 6         |
| 35 | Graphoto: Aesthetically Pleasing Charts for Casual Information Visualization. IEEE Computer Graphics and Applications, 2018, 38, 67-82.  | 1.2 | 6         |
| 36 | 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         |

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|----|--|-----|-----------|
| 37 | Infomages: Embedding Data into Thematic Images. Computer Graphics Forum, 2020, 39, 593-606.  | 3.0 | 6         |
| 38 | Can Computers Master the Art of Communication?: A Focus on Visual Analytics. IEEE Computer Graphics and Applications, 2011, 31, 14-21.   | 1.2 | 5         |
| 39 | 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         |
| 40 | Identifying the skeptics and the undecided through visual cluster analysis of local network geometry. Visual Informatics, 2022, 6, 11-22.  | 4.4 | 5         |
| 41 | WhereAml: Energy Efficient Positioning using Partial Textual Signatures. , 2015, , .   |     | 4         |
| 42 | Model-driven visual analytics for big data. , 2016, , .  |     | 4         |
| 43 | FastSplats: optimized splatting on rectilinear grids. , 0, , .   |     | 3         |
| 44 | Reconstruction for proton computed tomography: a practical approach. , 0, , .  |     | 3         |
| 45 | Accelerating regularized iterative ct reconstruction on commodity graphics hardware (GPU). , 2009, , .   |     | 3         |
| 46 | Cache-aware GPU memory scheduling scheme for CT back-projection. , 2010, , .   |     | 3         |
| 47 | GPU-accelerated incremental correlation clustering of large data with visual feedback. , 2013, , .   |     | 3         |
| 48 | Optimal sampling lattices for high-fidelity CT reconstruction. , 2009, , .   |     | 2         |
| 49 | Low dose CT image restoration using a localized patch database. , 2013, , .  |     | 2         |
| 50 | Streaming Classical Multidimensional Scaling. , 2018, , .  |     | 2         |
| 51 | Coding Ants: Optimization of GPU code using ant colony optimization. Computer Languages, Systems and Structures, 2018, 54, 119-138.  | 1.4 | 2         |
| 52 | Metal Artifact Reduction in X-ray CT via Ray Profile Correction. Applied Sciences (Switzerland), 2020, 10, 66.   | 2.5 | 2         |
| 53 | Feature preserving distance fields. , 0, , .   |     | 1         |
| 54 | StreamVisND: Visualizing relationships in streaming multivariate data. , 2015, , .   |     | 1         |

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|----|---|-----|-----------|
| 55 | MADR: metal artifact detection and reduction. Proceedings of SPIE, 2016, , .  | 0.8 | 1         |
| 56 | Progressive clustering of big data with GPU acceleration and visualization. , 2017, , .   |     | 1         |
| 57 | Guest Editors' Introduction: Special Section on IEEE Visualization Applications. IEEE Transactions on Visualization and Computer Graphics, 2005, 11, 483-484. | 4.4 | 0         |
| 58 | Accelerated, high-quality refraction computations for volume graphics. Volume Graphics International Symposium on Volume Graphics, 2005, , .                  | 2.0 | 0         |
| 59 | VACT: Visualization-aware CT reconstruction. , 2013, , .  |     | 0         |
| 60 | Balanced layouts using the composite data-variable matrix. , 2014, , .  |     | 0         |
| 61 | A study of sparse detector designs with interpolation for multi-slice spiral CT. , 2015, , .  |     | 0         |
| 62 | A Message from the New Editor-in-Chief. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1267-1268.  | 4.4 | 0         |
| 63 | State of the Journal. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 1440-1441.  | 4.4 | 0         |
| 64 | Visual Analytics for Scientific Data in NSLS-II. , 2020, , 159-168.   |     | 0         |
| 65 | IEEE VR 2022 Introducing the Special Issue. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, vi-vi.  | 4.4 | 0         |
| 66 | Cluster Appearance Glyphs: A Methodology for Illustrating High-Dimensional Data Patterns in 2-D Data Layouts. Information (Switzerland), 2022, 13, 3.         | 2.9 | 0         |