Carsten Dachsbacher

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Analysis of Acceleration Structure Parameters and Hybrid Autotuning for Ray Tracing. IEEE Transactions on Visualization and Computer Graphics, 2023, 29, 1345-1356. | 4.4 | Ο |
| 2 | Stochastic Volume Rendering of Multiâ€Phase SPH Data. Computer Graphics Forum, 2021, 40, 97-109. | 3.0 | 1 |
| 3 | Spectral Mollification for Bidirectional Fluorescence. Computer Graphics Forum, 2020, 39, 373-384. | 3.0 | 3 |
| 4 | Sensor-Realistic Simulations for Evaluation and Planning of Optical Measurement Systems With an Application to Laser Triangulation. IEEE Sensors Journal, 2020, 20, 5336-5349. | 4.7 | 7 |
| 5 | Path differential-informed stratified MCMC and adaptive forward path sampling. ACM Transactions on Graphics, 2020, 39, 1-19. | 7.2 | 2 |
| 6 | Wide Gamut Spectral Upsampling with Fluorescence. Computer Graphics Forum, 2019, 38, 87-96. | 3.0 | 7 |
| 7 | Analyzing the Interaction of Vortex and Gas–Liquid Interface Dynamics in Fuel Spray Nozzles by Means of Lagrangian-Coherent Structures (2D). Energies, 2019, 12, 2552. | 3.1 | 7 |
| 8 | Applying Visual Analytics to Physically Based Rendering. Computer Graphics Forum, 2019, 38, 197-208. | 3.0 | 3 |
| 9 | Reâ€Weighting Firefly Samples for Improved Finiteâ€ S ample Monte Carlo Estimates. Computer Graphics Forum, 2018, 37, 410-421. | 3.0 | 10 |
| 10 | Memory-Efficient On-the-Fly Voxelization and Rendering of Particle Data. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 1155-1166. | 4.4 | 4 |
| 11 | Transport path precomputation for real-time room reverb. , 2018, , . | | 0 |
| 12 | Highly efficient computation of Finite-Time Lyapunov Exponents (FTLE) on GPUs based on three-dimensional SPH datasets. Computers and Fluids, 2018, 175, 129-141. | 2.5 | 11 |
| 13 | Selective guided sampling with complete light transport paths. ACM Transactions on Graphics, 2018, 37, 1-14. | 7.2 | 22 |
| 14 | Multiple Vertex Next Event Estimation for Lighting in dense, forward-scattering Media. Computer Graphics Forum, 2017, 36, 21-30. | 3.0 | 7 |
| 15 | Line Integration for Rendering Heterogeneous Emissive Volumes. Computer Graphics Forum, 2017, 36, 101-110. | 3.0 | 8 |
| 16 | Spatiotemporal variance-guided filtering. , 2017, , . | | 78 |
| 17 | Physically based computer graphics for realistic image formation to simulate optical measurement systems. Journal of Sensors and Sensor Systems, 2017, 6, 171-184. | 0.9 | 7 |
| 18 | Improving the Dwivedi Sampling Scheme. Computer Graphics Forum, 2016, 35, 37-44. | 3.0 | 5 |

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|----|--|-----|-----------|
| 19 | State of the Art in Artistic Editing of Appearance, Lighting and Material. Computer Graphics Forum, 2016, 35, 216-233. | 3.0 | 29 |
| 20 | Ambient Volume Illumination. Computing in Science and Engineering, 2016, 18, 90-97. | 1.2 | 0 |
| 21 | Anisotropic Ambient Volume Shading. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 1015-1024. | 4.4 | 10 |
| 22 | Synthesizing images using parameterized models for automated optical inspection (AOI). TM Technisches Messen, 2015, 82, 251-261. | 0.7 | 4 |
| 23 | Improved Half Vector Space Light Transport. Computer Graphics Forum, 2015, 34, 65-74. | 3.0 | 21 |
| 24 | Visualization of Coherent Structures of Light Transport. Computer Graphics Forum, 2015, 34, 491-500. | 3.0 | 6 |
| 25 | Physically Meaningful Rendering using Tristimulus Colours. Computer Graphics Forum, 2015, 34, 31-40. | 3.0 | 48 |
| 26 | Richâ€VPLs for Improving the Versatility of Many‣ight Methods. Computer Graphics Forum, 2015, 34, 575-584. | 3.0 | 13 |
| 27 | Stochastic Soft Shadow Mapping. Computer Graphics Forum, 2015, 34, 1-11. | 3.0 | 49 |
| 28 | Realâ€Time Isosurface Extraction With Viewâ€Dependent Level of Detail and Applications. Computer Graphics Forum, 2015, 34, 103-115. | 3.0 | 8 |
| 29 | Filtering Multiâ€Layer Shadow Maps for Accurate Soft Shadows. Computer Graphics Forum, 2015, 34, 205-215. | 3.0 | 9 |
| 30 | Low-Pass Filtered Volumetric Shadows. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2437-2446. | 4.4 | 22 |
| 31 | Dual olor mixing for fused deposition modeling printers. Computer Graphics Forum, 2014, 33, 479-486. | 3.0 | 52 |
| 32 | Fractional Reyes‣tyle Adaptive Tessellation for Continuous Level of Detail. Computer Graphics Forum, 2014, 33, 191-198. | 3.0 | 2 |
| 33 | Low ost Subpixel Rendering for Diverse Displays. Computer Graphics Forum, 2014, 33, 199-209. | 3.0 | 10 |
| 34 | Scalable Realistic Rendering with Many‣ight Methods. Computer Graphics Forum, 2014, 33, 88-104. | 3.0 | 91 |
| 35 | Efficient Monte Carlo rendering with realistic lenses. Computer Graphics Forum, 2014, 33, 323-332. | 3.0 | 23 |
| 36 | Principal-Ordinates Propagation for real-time rendering of participating media. Computers and Graphics, 2014, 45, 28-39. | 2.5 | 7 |

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|----|--|-----|-----------|
| 37 | The natural-constraint representation of the path space for efficient light transport simulation. ACM Transactions on Graphics, 2014, 33, 1-13. | 7.2 | 54 |
| 38 | Path Space Regularization for Holistic and Robust Light Transport. Computer Graphics Forum, 2013, 32, 63-72. | 3.0 | 37 |
| 39 | Path-space manipulation of physically-based light transport. ACM Transactions on Graphics, 2013, 32, 1-11. | 7.2 | 19 |
| 40 | Adaptive progressive photon mapping. ACM Transactions on Graphics, 2013, 32, 1-13. | 7.2 | 48 |
| 41 | Adaptive Quantization Visibility Caching. Computer Graphics Forum, 2013, 32, 399-408. | 3.0 | 3 |
| 42 | Decoupled deferred shading for hardware rasterization. , 2012, , . | | 34 |
| 43 | Approximate Bias Compensation for Rendering Scenes with Heterogeneous Participating Media. Computer Graphics Forum, 2012, 31, 2145-2154. | 3.0 | 10 |
| 44 | The State of the Art in Interactive Global Illumination. Computer Graphics Forum, 2012, 31, 160-188. | 3.0 | 113 |
| 45 | A runtime cache for interactive procedural modeling. Computers and Graphics, 2012, 36, 366-375. | 2.5 | 4 |
| 46 | Rasterized Bounding Volume Hierarchies. Computer Graphics Forum, 2012, 31, 403-412. | 3.0 | 14 |
| 47 | Selective Inspection and Interactive Visualization of Light Transport in Virtual Scenes. Computer Graphics Forum, 2012, 31, 711-718. | 3.0 | 12 |
| 48 | Progressive Virtual Beam Lights. Computer Graphics Forum, 2012, 31, 1407-1413. | 3.0 | 31 |
| 49 | Analyzing Visibility Configurations. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 475-486. | 4.4 | 14 |
| 50 | Screen-space bias compensation for interactive high-quality global illumination with virtual point lights. , 2011, , . | | 17 |
| 51 | Improved Model―and Viewâ€Dependent Pruning of Large Botanical Scenes. Computer Graphics Forum, 2011, 30, 1708-1718. | 3.0 | 17 |
| 52 | Interactive modeling of implicit surfaces using a direct visualization approach with signed distance functions. Computers and Graphics, 2011, 35, 596-603. | 2.5 | 26 |
| 53 | Real-time volume caustics with adaptive beam tracing. , 2011, , . | | 13 |
| 54 | Coherent Culling and Shading for Large Molecular Dynamics Visualization. Computer Graphics Forum, 2010, 29, 953-962. | 3.0 | 43 |

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|----|--|-----|-----------|
| 55 | Cascaded light propagation volumes for real-time indirect illumination. , 2010, , . | | 98 |
| 56 | Epipolar sampling for shadows and crepuscular rays in participating media with single scattering. , 2010, , . | | 44 |
| 57 | Perceptual influence of approximate visibility in indirect illumination. ACM Transactions on Applied Perception, 2009, 6, 1-14. | 1.9 | 20 |
| 58 | Micro-rendering for scalable, parallel final gathering. ACM Transactions on Graphics, 2009, 28, 1-8. | 7.2 | 58 |
| 59 | Real-time global illumination for dynamic scenes. , 2009, , . | | 4 |
| 60 | Structureâ€Preserving Reshape for Textured Architectural Scenes. Computer Graphics Forum, 2009, 28, 469-480. | 3.0 | 38 |
| 61 | The Gödel Engine ―An interactive approach to visualization in general relativity. Computer Graphics Forum, 2009, 28, 807-814. | 3.0 | 7 |
| 62 | Reducing Noise in Image-Space Caustics with Variable-Sized Splatting. Journal of Graphics Tools, 2008, 13, 1-17. | 0.5 | 16 |
| 63 | Imperfect shadow maps for efficient computation of indirect illumination. ACM Transactions on Graphics, 2008, 27, 1-8. | 7.2 | 122 |
| 64 | Implicit visibility and antiradiance for interactive global illumination. ACM Transactions on Graphics, 2007, 26, 61. | 7.2 | 53 |