Daniel Meister

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CONTACT INFORMATION

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EDUCATION

CZECH TECHNICAL UNIVERSITY IN PRAGUE:

2014 – 2018 Ph.D. in Information Science and Computer Engineering

2012 – 2014 M.Sc. in Computer Graphics and Interaction

2009 - 2012 B.Sc. in Software Engineering

Work Experience

2017/11 – PRESENT Researcher, Toyota Research Lab, CTU in Prague 2014/10 – 2017/3 External Developer (Interactive Rendering System), Škoda Auto

LANGUAGES

CZECH Native Language

English Fluent

Japanese Intermediate (JLPT N3)

French Basic Knowledge Spanish Basic Knowledge

Computer Skills

C/C++, CUDA, OPENGL, SIMD, MATLAB, PYTHON, LATEX

Research Interests

Data Structures for Ray Tracing, Real-Time Ray Tracing, GPGPU, Parallel Computing, Global Illumination

PUBLICATIONS

Daniel Meister and Jiří Bittner. Parallel Reinsertion for Bounding Volume Hierarchy Optimization. Computer Graphics Forum (Proceedings of Eurographics), 37(2):463–473, 2018

Daniel Meister and Jiří Bittner. Parallel Locally-Ordered Clustering for Bounding Volume Hierarchy Construction. *IEEE Transactions on Visualization and Computer Graphics*, 24(3):1345–1353, 2018

Jakub Hendrich, Daniel Meister, and Jiří Bittner. Parallel BVH Construction Using Progressive Hierarchical Refinement. Computer Graphics Forum (Proceedings of Eurographics), 36(2):487–494,

2017

Daniel Meister and Jiří Bittner. Parallel BVH Construction Using k-means Clustering. Visual Computer (Proceedings of Computer Graphics International), 32(6-8):977–987, 2016

Jiří Bittner and Daniel Meister. T-SAH: Animation Optimized Bounding Volume Hierarchies. Computer Graphics Forum (Proceedings of Eurographics), 34(2):527–536, 2015

Professional Visits Abroad

- 2017 National Institute of Informatics, Japan (5 months)
- 2014 Vienna University of Technology, Austria (1 month)

PROJECTS

- 2014 2017 Development Adaptive Interactive System for Increasing Safety of Vehicle Crew and its Use for Evaluation of Pavement Surface Characteristics (TA04031769), Technology Agency of the Czech Republic, Project External Team Member
- 2014 2015 Optimal Algorithms for Image Synthesis (GAP202/12/2413), The Czech Science Foundation, Project Team Member
- 2013 2014 Global Illumination for Augmented Reality in General Environments (GAP202/11/1883), The Czech Science Foundation, Project Team Member

TEACHING

- 2015 Algorithms of Computer Graphics A4M39APG
- 2018 Algorithms of Computer Graphics B(E)4M39APG

Professional Society Membership

UPSILON PI EPSILON HONOR SOCIETY