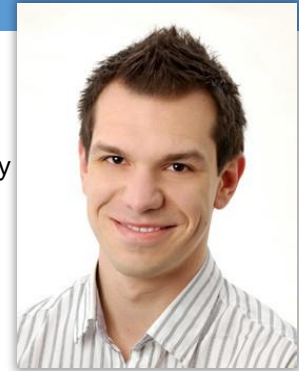


DR. MARKUS STEINBERGER

PERSONAL INFORMATION

Research Area	High Performance Parallel Computing, Computer Graphics, Visualization
Current Position	Junior Group Leader Max Planck Institute for Informatics, Germany
Born	09 March 1986 Leoben, Austria
Nationality	Austria
Marital status	married
Current project page	www.markussteinberger.net



ACHIEVEMENTS

- 10/2016 **OCG Heinz Zemanek Preis**
With this award the Austrian Computer Society honors the best Austrian dissertation in the field of Computer Science. My dissertation *Dynamic Resource Scheduling on Graphics Processors* was selected to be the best among all dissertation completed in Austria between 2012 and 2016.
- 09/2016 **Best Paper Finalist Award High Performance Extreme Computing**
IEEE High Performance Extreme Computing is the premier conference in the world on the convergence of High Performance and Embedded Computing. The paper *How Naïve is Naïve SpMV on the GPU* was select to be among the best five papers of HPEC'16.
- 11/2014 **Honorary Award from the Austrian federal ministry for Science, Research and Economy**
With this award, the Austrian federal ministry for Science, Research and Economy honors outstanding achievements during their studies.
- 10/2014 **GI Prize for the best dissertation (PhD thesis) of 2013**
The GI Prize for the best dissertation tries to award the best dissertation within the field of Computer Science completed at any university within Germany, Austria and Swiss. I am the first Austrian to ever win this Award for my dissertation *Dynamic Resource Scheduling on Graphics Processors*.
- 08/2014 **Best paper Award High Performance Graphics**
High Performance Graphics is the premiere conference for high performance computations on graphics processors. The paper *Fast ANN for High-Quality Collaborative Filtering*, which I wrote together with my colleagues at NVIDIA was selected to be the best paper of 2014.
- 07/2014 **Award of Excellence from the Austrian federal ministry for Science, Research and Economy**
The Austrian federal ministry for Science, Research and Economy supports outstanding young Researchers in their international travel activities for two years after completing their PhD.
- 07/2014 **Promotion sub auspiciis Praesidentis rei publicae**
In Austria, the highest possible honor for achievement is the *promotio sub auspiciis prasidentis rei publicae*. In this ceremony, the head of Austria honors the country's best students by attending their promotion and presenting them with a custom made gold ring.

- 04/2014 **Honorable Mention Award Human Factors in Computing Systems**
The ACM Human Factors in Computing Systems (CHI) is the premier conference for human computer interaction. Our paper *Show Me the Invisible: Visualizing Hidden Content* was selected to be one of the outstanding papers of 2014 and received an honorable mention paper award.
- 04/2014 **3rd Best Paper Award Eurographics**
Eurographics is the premier conference for computer graphics in Europe and among the top three conference worldwide. Our paper *Parallel Generation of Architecture on the GPU* was selected to be the third best paper presented at the conference in 2014.
- 10/2013 **IEEE SciVis Honorable Mention Poser Award**
IEEE SciVis is the premiere conference for scientific visualization. Our poster *Volume Rendering with advanced GPU scheduling strategies* was selected to be one of the best posters of 2013 and received an honorable mention poster award.
- 10/2011 **IEEE InfoVis Best Paper Award**
IEEE InfoVis is the premiere conference for information visualization. Our paper *Context-Preserving Visual Links* was voted to be the best paper of 2011 and received the best paper award 2011.
- 08/2011 **Non-Photorealistic Animation and Rendering Best Paper Award**
The symposium on Non-Photorealistic Animation and Rendering (NPAR) has a more than 10 year history of being the premiere symposium for the specialized field of non-photorealistic animation and rendering. Our paper *Stylization-based ray prioritization for guaranteed framerates* was selected to be the best paper in the category Rendering in 2011.
- 05/2011 **Honorable Mention Award Human Factors in Computing Systems**
The ACM Human Factors in Computing Systems (CHI) is the premier conference for human computer interaction. Our paper *Importance-Driven Compositing Window Management* was selected to be one of the outstanding papers of 2011 and received an honorable mention paper award.
- 05/2009 **3rd Best CESC Paper Award**
My first paper *Multiresolution Isosurface Rendering* was selected to be the 3rd best paper of the Central European Seminar on Computer Graphics.
- 2006 – 2009 **Achievement scholarship from the Faculty of Informatics**
Due to my outstanding study progress I received achievement scholarships from Graz University of Technology in 2006, 2007, 2008 and 2009.

EDUCATION

- 11/2010 – 10/2013 **PhD studies at Graz University of Technology**
Finished the PhD program in Computer Science with best possible grades within shortest possible time. Advisor: Prof. Dieter Schmalstieg. External Referee: Prof. Jens Krüger (University of Duisburg). Dissertation Title: *Dynamic Resource Scheduling on Graphics Processors*
- 10/2008 – 06/2010 **Master studies at Graz University of Technology**
Finished the master program in Telematics with best possible grades within minimum study durations. Advisor: Dr. Markus Grabner. Thesis Title: *Highly accurate Multiresolution Isosurface Rendering using compactly supported Spline Wavelets*

10/2005– 10/2008 **Bachelor studies at Graz University of Technology**
Finished the bachelor program in Telematics with best possible grades within minimum study durations. Advisor: Dr. Markus Grabner. Thesis Title: *Isosurface Representation and Rendering, an approach for polynomial isosurface functions*

PROFESSIONAL

11/2015 – now **Junior Group Leader**, Max Planck Institute Saarbrücken, Germany
Leading the GPU Scheduling and Parallel Computing Group

11/2013 – 10/2015 **Junior Group Leader / Post Doc**, Graz University of Technology, Austria
Leading the Parallel Computing Group at the Institute for Computer Graphics and Vision, Teaching courses in Computer Graphics and GPU computing

10/2013 – 02/2014 **Internship NVIDIA Corporation**, Santa Clara, California, USA
Researcher in the Mobile Computer Vision Group of Kari Pulli

06/2010 – 10/2013 **University Assistant**, Graz University of Technology, Austria
Research and Teaching at the Institute for Computer Graphics and Vision

10/2007 – 06/2010 **Teaching Assistant**, Graz University of Technology, Austria
Assistant with the Institute for computer Graphics and Vision, Institute for Signal Processing and Speech Communication, Institute for Applied Information Processing and Communications, Institute for Theoretical Computer Science, Institute for Software Technology.

TEACHING

COURSES

2016 FH Salzburg,
Advanced Rendering, Lecturer, 5 Students
Teaching advanced GPU Compute and Simulations

2013 – 2015 Graz University of Technology,
Real-Time Graphics 2, Lecturer, 20 students
Teaching GPU Computing and GPGPU for Computer Graphics problems

2013 – 2015 Graz University of Technology,
Computer Graphics 2, Shared Lecturer, Exercise Coordinator, 150 students
Teaching basic Computer Graphics topics

2013 – 2015 Graz University of Technology,
Computer Graphics 1, Shared Lecturer, Exercise Coordinator, 250 students
Teaching basic Computer Graphics topics

2012 Graz University of Technology,
Virtual Reality, Exercise Coordinator, 20 students

2011 Graz University of Technology,
Software Development in Distributed Environments, Exercise Coordinator,
200 students

2009 – 2010 Graz University of Technology,
Computer Graphics 2, tutor, 150 students

2009 – 2010 Graz University of Technology,
Computer Graphics 1, tutor, 250 students

2009	Graz University of Technology, Real-Time Graphics 1, tutor, 50 students
2009	Graz University of Technology, Virtual Reality, tutor, 20 students
2009	Graz University of Technology, Computational Intelligence, tutor, 180 students
2008	Graz University of Technology, Operating Systems, tutor, 250 students
2007 – 2008	Graz University of Technology, Data structures and Algorithms, tutor, 250 students
2006	Graz University of Technology, Foundations of Computer Science, tutor, 400 students

TEACHING COMMITTEES AND OTHER TEACHING ACTIVITIES

2015 – 2016	Admission Committee Master Studies Visual Computing Saarland University, Germany
2014	Establishing the submission and assignment evaluation system for the Institute for Computer Graphics and Vision at Graz University of Technology, Austria, including Website, Database, Testing Sever, and connection to the TUGOnline account system.

STUDENT SUPERVISION

2015 – now	Jozef Hladky, PhD student, <i>Delayed Rasterization and Shading</i>
2014 – now	Mark Dokter, PhD student, <i>Interpretation on the GPU</i>
2014 – now	Pedro Boechat, PhD student, <i>Shape Grammar Evaluation on the GPU</i>
2014 – now	Bernhard Kerbl, PhD student, <i>Extended Rendering Pipelines on the GPU</i>
2013 – now	Michael Kenzel, PhD student, <i>Non-linear Rasterization</i>
2016	Ali Rostami, Intern: <i>Gradient Domain Path Tracing</i>
2016	Andreas Derler, Master Thesis: <i>A GPU Hierarchical Sparse Matrix Format</i>
2016	Karl Haubenwallner, Master Thesis: <i>Inverse Procedural Modeling using GA</i>
2016	Daniel Mlakar, Master Project: <i>Subdivision Surface Rendering on the GPU</i>
2016	Martin Sattlecker, Master Thesis: <i>High Quality Reyes using CUDA</i>
2016	Smuel Kogler, Stephan Stiboller, Bachelor Thesis: <i>The Godzilla Simulator</i>
2015	David Mandl, Master Thesis: <i>Automatic Surrogate Terminal Generation for Shape Grammars</i>
2015	Reinhard Enhuber, Bachelor Thesis: <i>Contour-based Sparse Voxel Octrees</i>
2015	Martin Sattlecker, Master Project: <i>Real-time Reyes using CUDA</i>
2015	Daniel Mlakar, Bachelor Thesis: <i>Real-time Subdivision Surface Reyes</i>
2014	Clemens Feuerstein, Bachelor Thesis: <i>Softshell GPU Taskmanager</i>
2014	Michael Kerber, Master Thesis: <i>Softshell Multi-Framerate Rendering</i>
2014	Lorenz Jäger, Master Thesis: <i>Real Time High Dynamic Range Video on the GPU</i>

- 2014 Mark Dokter, Master Thesis: *Rule-scheduling for Grammar-based Procedural Modeling on the GPU*
- 2013 Thomas Pietsch, Bachelor Thesis: *OmniKinect non-linear Calibration*
- 2013 Lorenz Jäger, Master Project: *Real-Time High Dynamic Range Videos*
- 2013 Sebastian Hrauda, Mathis Hesse, Bachelor Thesis: *Courseware 2.0*
- 2013 Michael Kerber, Master Project: *Softshell Multi-Framerate Rendering*
- 2012 Thomas Geymayer, Master Thesis: *Visual Linking on the Desktop*
- 2012 Michael Kenzel, Master Thesis: *Edge Distance Shadow Maps*
- 2012 Jörg Müller, Master Project: *Solar System Shadows*
- 2012 Michael Kenzel, Master Project: *Efficient Compiling for Megakernel Approaches in CUDA*
- 2012 Bernhard Kerbel, Master Project: *Queue Sorting for Megakernel Approaches*
- 2011 Severin Küberl, Bachelor Thesis: *Web-based Drawing*

FUNDING

- 2016 *Principal Investigator: Fully Programmable GPU Pipelines* funded by the Deutsche Forschungsgemeinschaft DFG as D-A-CH project
- 2015 *GPU Scheduling and Parallel Computing* Funding for two PhD students granted as part of the Junior Group Leader Position by the Max Planck Society
- 2011 *Co-Author: Automatic Volume Data Processing on Graphics Processors* funded by the Austrian Science Fond FWF, P23329.

PUBLICATIONS

JOURNAL ARTICLES

- J.15 Bernhard Kerbl, Michael Kenzel, Dieter Schmalstieg, Hans-Peter Seidel, **Markus Steinberger**:
Hierarchical Bucket Queuing for Fine-Grained Priority Scheduling on the GPU
Computer Graphics Forum, 2016
- J.14 Pedro Boechat, Mark Dokter, Michael Kenzel, Hans-Peter Seidel, Dieter Schmalstieg, **Markus Steinberger**:
Representing and Scheduling Procedural Generation using Operator Graphs
ACM Transactions on Graphics (SIGGRAPH Asia '16), 2016
- J.13 Yun-Ta Tsai, **Markus Steinberger**, Dawid Pająk, Kari Pulli:
Fast ANN for High-Quality Collaborative Filtering
Computer Graphics Forum (35), 2016
- J.12 Bernhard Kainz, **Markus Steinberger**, Wolfgang Wein, Maria Murgasova, Christina Malamateniou, Kevin Keraudren, Paul Aljabar, Mary Rutherford, Joseph Hajnal, Daniel Rueckert:
Fast Volume Reconstruction from Motion Corrupted Stacks of 2D Slices
IEEE Transactions on Medical Imaging, 2015
- J.11 Bernhard Kerbl, Denis Kalkofen, **Markus Steinberger**, Dieter Schmalstieg:
Interactive Disassembly Planning for Complex Objects
Computer Graphics Forum (EG'15), 2015

- J.10 **Markus Steinberger:**
An Overview of Dynamic Resource Scheduling on Graphics Processors
it-Information Technology, 2015
- J.09 **Markus Steinberger**, Michael Kenzel, Pedro Boechat, Bernhard Kerbl, Mark Dokter, Dieter Schmalstieg:
Whippletree: Task-based Scheduling of Dynamic Workloads on the GPU
ACM Transactions on Graphics (SIGGRAPH Asia '14), 2014
- J.08 Felix Heide, **Markus Steinberger**, Yun-Ta Tsai, Nasa Rouf, Dawid Pajak, Dikpal Reddy, Orazio Gallo, Jing Liu, Wolfgang Heidrich, Karen Egiazarian, Jan Kautz, Kari Pulli:
FlexISP: A flexible camera image processing framework
ACM Transactions on Graphics (SIGGRAPH Asia '14), 2014
- J.07 **Markus Steinberger**, Michael Kenzel, Bernhard Kainz, Peter Wonka, Dieter Schmalstieg:
On-the-fly Generation and Rendering of Infinite Cities on the GPU
in Computer Graphics Forum (EG'14), 2014
- J.06 **Markus Steinberger**, Michael Kenzel, Bernhard Kainz, Jörg Müller, Peter Wonka, Dieter Schmalstieg:
Parallel Generation of Architecture on the GPU
EG'14 3rd Best Paper Award
Computer Graphics Forum (EG'14), 2014
- J.05 Rostislav Khlebnikov, Bernhard Kainz, **Markus Steinberger**, Dieter Schmalstieg:
Noise-based volume rendering for the visualization of multivariate volumetric data
IEEE Transactions on Visualization and Computer Graphics (VIS'13), 2013
- J.04 **Markus Steinberger**, Bernhard Kainz, Bernhard Kerbl, Stefan Hauswiesner, Michael Kenzel, Dieter Schmalstieg:
Softshell: Dynamic Scheduling on GPUs
ACM Transactions on Graphics (SIGGRAPH Asia '12), 2012
- J.03 **Markus Steinberger**, Manuela Waldner, Dieter Schmalstieg:
Interactive Self-Organizing Windows
Computer Graphics Forum (EG'12), 2012
- J.02 **Markus Steinberger**, Bernhard Kainz, Stefan Hauswiesner, Rostislav Khlebnikov, Denis Kalkofen, Dieter Schmalstieg:
Ray Prioritization Using Stylization and Visual Saliency
Computers and Graphics, 2012
- J.01 **Markus Steinberger**, Manuela Waldner, Marc Streit, Alexander Lex, Dieter Schmalstieg:
Context-Preserving Visual Links
InfoVis '11 Best Paper Award
IEEE Transactions on Visualization and Computer Graphics (InfoVis '11), 17(12), 2011.

CONFERENCE PAPERS

- C.14 **Markus Steinberger**, Andreas Derler, Rhaleb Zayer, Hans-Peter Seidel:
How naive is naive SpMV on the GPU?
HPEC '16 Best Paper Nominee
IEEE High Performance Extreme Computing, 2016

- C.13 Philip Voglreiter, Michael Hofmann, Christoph Ebner, Roberto Blanco Sequeiros, Horst Rupert Portugaller, Jurgen Fütterer, Michael Moche, **Markus Steinberger**, Dieter Schmalstieg:
Visualization-Guided Evaluation of Simulated Minimally Invasive Cancer Treatment
Eurographics Visual Computing for Biology and Medicine, 2016
- C.12 Yun-Ta Tsai, **Markus Steinberger**, Dawid Pająk, Kari Pulli:
Fast ANN for High-Quality Collaborative Filtering
HPG '14 Best Paper Award
High Performance Graphics (HPG'14), 2014
- C.11 Thomas Geymayer, **Markus Steinberger**, Alexander Lex, Marc Streit, Dieter Schmalstieg:
Show Me the Invisible: Visualizing Hidden Content
CHI '14 Honorable Mention Award
Human Factors in Computing Systems (CHI '14), 2014
- C.10 Denis Kalkofen, Eduardo Veas, Stefanie Zollmann, **Markus Steinberger**, Dieter Schmalstieg:
Adaptive Ghosted Views for Augmented Reality
in International Symposium on Mixed and Augmented Reality (ISMAR'13), IEEE, 2013
- C.09 Bernhard Kainz, Stefan Hauswiesner, Gerhard Reitmayr, **Markus Steinberger**, Raphael Grasset, Lukas Gruber, Eduardo Veas, Denis Kalkofen, Hartmut Seichter, Dieter Schmalstieg:
OmniKinect: Real-Time Dense Volumetric Data Acquisition and Applications
in Symposium On Virtual Reality Software And Technology (VRST), 2012
- C.08 Philip Voglreiter, **Markus Steinberger**, Dieter Schmalstieg, Bernhard Kainz:
Volumetric Real-Time Particle-Based Representation of Large Unstructured Tetrahedral Polygon Meshes
in Proceedings of MICCAI MeshMed'12, 2012
- C.07 Rostislav Khlebnikov, Bernhard Kainz, **Markus Steinberger**, Marc Streit, Dieter Schmalstieg:
Procedural texture synthesis for zoom-independent visualization of multivariate data
in Proceedings of EuroVIS'12, 2012
- C.06 **Markus Steinberger**, Michael Kenzel, Bernhard Kainz, Dieter Schmalstieg:
ScatterAlloc: Massively Parallel Dynamic Memory Allocation for the GPU
Innovative Parallel Computing (InPar 2012)
- C.05 Stefan Hauswiesner, Rostislav Khlebnikov, **Markus Steinberger**, Matthias Straka, Gerhard Reitmayr:
Multi-GPU Image-based Visual Hull Rendering
in Proceedings of the Eurographics Symposium on Parallel Graphics and Visualization, 2012
- C.04 Manuela Waldner, Raphael Grasset, **Markus Steinberger**, Dieter Schmalstieg:
Display-Adaptive Window Management for Irregular Surfaces
in Proceedings of Interactive Tabletops and Surfaces (ITS'11), 2011.
- C.03 Bernhard Kainz, **Markus Steinberger**, Stefan Hauswiesner, Rostislav Khlebnikov, Dieter Schmalstieg:
Stylization-based ray prioritization for guaranteed frame rates

NPAR '11 Best Paper Award in Rendering

in Proceedings of Non-photorealistic Animation and Rendering (NPAR '11), pp. 44-53, 2011.

- C.02 Manuela Waldner, **Markus Steinberger**, Raphael Grasset, Dieter Schmalstieg:
Importance-Driven Compositing Window Management
CHI '11 Honorable Mention Award
in Proceedings of Human Factors in Computing Systems (CHI '11), pp. 959-968, 2011.
- C.01 **Markus Steinberger**, Markus Grabner:
Wavelet-based Multiresolution Isosurface Rendering
In Proceedings of Eurographics/IEEE VGTC Symposium on Volume Graphics, 2010.

PATENTS

- P.01 Dawid Pajak, Yun-Ta Tsai, **Markus Steinberger**:
Efficient approximate-nearest-neighbor (ANN) search for high-quality collaborative filtering
US Patent App. 14/632,782, 2015

POSTERS

- P.02 Philip Voglreiter, **Markus Steinberger**, Rostislav Khlebnikov, Bernhard Kainz, Dieter Schmalstieg:
Volume Rendering with advanced GPU scheduling strategies
Vis '13 Honorable Mention Poster Award
IEEE Vis'13 poster, IEEE, 2013
- P.01 Bernhard Kainz, **Markus Steinberger**, Stefan Hauswiesner, Rostislav Khlebnikov, Denis Kalkofen, Dieter Schmalstieg:
Using Perceptual Features to Prioritize Ray-based Image Generation
in Proceedings of Symposium on Interactive 3D Graphics and Games 2011 (I3D), 2011.

THESIS

- T.03 **Markus Steinberger**:
Dissertation: *Dynamic Resource Scheduling on Graphics Processors*
Supervisor: Dieter Schmalstieg, October, 2013
- T.02 **Markus Steinberger**:
Master's Thesis: *Highly accurate Multiresolution Isosurface Rendering using compactly supported Spline Wavelets*
Supervisor: Markus Grabner, April, 2010
- T.01 **Markus Steinberger**:
Bachelor Thesis: *Isosurface Representation and Rendering, an approach for polynomial isosurface functions*
Supervisor: Markus Grabner, September, 2008

OTHER

- O.05 Michael Kenzel, Bernhard Kainz, Dieter Schmalstieg, **Markus Steinberger**:
Real-time Procedural Generation of Large Cities
Cover Image for Springer Informatik Spektrum 1/2017

- O.04 Michael Kenzel, Bernhard Kerbl, Martin Kenzel, **Markus Steinberger**:
Advanced Rendering Effects
Cover Image for Springer Informatik Spektrum 6/2016
- O.03 Michael Kenzel, Bernhard Kerbl, Martin Kenzel, Dieter Schmalstieg, Hans-
Peter Seidel, **Markus Steinberger**:
Alternative Rasterizer Pattern within a Software Rendering Pipeline
Cover Image for Springer Informatik Spektrum 2/2016
- O.02 **Markus Steinberger**:
Dynamisches Ressourcen Scheduling auf Grafik Prozessoren
Ausgezeichnete
Informatikdissertationen 2013 (German). GI, 2014
- O.01 **Markus Steinberger**:
Multiresolution Isosurface Rendering
CESCG '09 3rd Best Paper Award
in Proceedings of Central European Seminar on Computer Graphics (CESCG
'09), 2009

COMMUNITIES AND REVIEWING

PROGRAM COMMITTEE MEMBER

- PC.02 High Performance Graphics, 2015, 2016
- PC.01 Central European Seminar on Computer Graphics (CESCG), 2012-2015

JOURNAL REVIEWING

- JR.11 ACM Transactions on Spatial Algorithms and Systems, 2016
- JR.10 Springer Journal of Real-Time Image Processing, 2016
- JR.09 Computers, 2016
- JR.08 Wiley Computer Animation and Virtual Worlds, 2016
- JR.07 International Journal of Geographical Information Science, 2015
- JR.06 Springer Realtime Image Processing, 2015
- JR.05 ACM Transaction on Graphics, 2014, 2015, 2016
- JR.04 IEEE Transactions on Visualization and Computer Graphics, 2012, 2013
- JR.03 Computer & Graphics, 2013
- JR.02 Computer Graphics Forum, 2013, 2014, 2015, 2016
- JR.01 IEEE Electrical Engineering, 2012

CONFERENCE REVIEWING

- CR.7 ACM Siggraph, 2014, 2015, 2016
- CR.6 ACM Siggraph Asia, 2014, 2015
- CR.5 EG Eurographics, 2013, 2014, 2015, 2016
- CR.4 High Performance Graphics, 2013, 2014, 2015, 2016
- CR.3 IEEE Virtual Reality 2012, 2014
- CR.2 IEEE Scientific Visualization, 2012,

CR.1 IEEE Information Visualization, 2012, 2013, 2014

PUBLIC FUNDING REVIEWER

RP.1 Austrian Agency for International Mobility 2014

MEMBERSHIPS

Association for Computing Machinery (ACM)

Eurographics Association (EG)

Austrian Computer Society (OCG)

TALKS

- 09/2016 High Performance Extreme Computing 2016, Massachusetts, USA
How naive is naive SpMV on the GPU?
- 08/2015 Invited Talk NVIDIA, California, USA:
Whippletree: Task-based Scheduling of Dynamic Workloads on the GPU
- 07/2015 Invited Talk University of Erlangen, Germany,
GPU Resource Management - one step towards a GPU OS
- 05/2015 Invited Talk MPI Informatics, Saarbrücken, Germany,
Dynamic Resource Scheduling on Graphics Processors
- 03/2015 Invited Talk GI Meeting Chemnitz, Germany,
GPU Resource Management - one step towards a GPU OS
- 12/2014 Invited Talk University of Dortmund, Germany,
Dynamic Resource Scheduling on Graphics Processors
- 05/2014 GI Kolloquium 2014, Dagstuhl, Germany
Dynamic Resource Scheduling on Graphics Processors
- 04/2014 Eurographics 2014, Strasbourg, France:
On-the-Fly Generation and Rendering of Infinite Cities on the GPU
- 04/2014 Eurographics 2014, Strasbourg, France:
Parallel Generation of Architecture on the GPU
- 02/2014 NVIDIA, California, USA:
Fast-ANN for Collaborative Filtering
- 11/2012 SIGGRAPH Asia 2012, Singapore EXPO, Singapore
Softshell: Dynamic Scheduling on GPUs
- 05/2012 Eurographics 2012, Cagliari, Italy:
Interactive Self-Organizing Windows
- 10/2011 Vis Week, InfoVis 2011:
Context-Preserving Visual Links
- 05/2011 ACM Human Factors in Computing Systems (CHI 2011), Vancouver, Canada:
Importance-Driven Compositing Window Management
- 05/2010 IEEE/EG International Symposium on Volume Graphics, Norrköping, Sweden:
Wavelet-based Multiresolution Isosurface Rendering

December 2016