

1 Personal Information

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2 Short CV

Education

1985–1989	Kardinal-von-Galen Grundschule, Olsberg, Germany (primary school)
1989–1998	Gymnasium der Benediktiner, Meschede, Germany (secondary school) Degree: Abitur (A-levels, Grade „sehr gut“)
1998–1999	Civil Service (Klinik am Stein, Olsberg, Germany)
1999–2004	Studies of Computer Science (major) und Mathematics (minor), University of Dortmund, Germany Pre-Diploma in Computer Science (2001) and Mathematics (2002) Funded by Studienstiftung des Deutschen Volkes (2002–2004)
Aug. 2004	Degree: Diploma (Dipl.-Inf.) in Computer Science (with honours, „sehr gut“) Advisors: Prof. Dr. Stefan Turek, Prof. Dr. Heinrich Müller Dissertation title: <i>Geometrische Projektionstechniken auf Oberflächentriangulierungen zur numerischen Strömungssimulation mit hierarchischen Mehrgitterverfahren</i> (Geometric projection methods on surface triangulations for computational fluid dynamics with hierarchical multigrid methods)

Academic Career and Employment History

2004–2006	graduate researcher, Chair for Applied Mathematics and Numerics, TU Dortmund graduate researcher, Chair for Computer Graphics, TU Dortmund
2006–2010	graduate researcher, Chair for Applied Mathematics and Numerics, TU Dortmund, funded by DFG (German Research Foundation), grants TU102/22-1 and TU102/22-2
May 2010	Dr. rer.nat. (with highest honours, „ausgezeichnet“), Department of Mathematics, TU Dortmund Advisors: Prof. Dr. Stefan Turek, Prof. Dr. Heinrich Müller Dissertation title: <i>Fast and Accurate Finite-Element Multigrid Solvers for PDE Simulations on GPU Clusters</i>
2010–2011	postdoc researcher, Chair for Applied Mathematics and Numerics, TU Dortmund, funded by DFG grant TU102/22-2
Aug. 2011	Appointment as Junior Professor for ‘Hardware-orientierte Numerik für große Systeme’, Faculty of Mathematics, TU Dortmund
2011–	Junior Professor, Faculty of Mathematics, TU Dortmund

3 Awards

- 2011 Rudolf-Chaudoire Award, TU Dortmund: This award honours two young researchers each year, highlighting their excellent scientific achievements. The award includes financial support to spend a longer time abroad, pursuing a research project of high practical relevance.
- 2011 Young Researcher Best Paper Award, with M. Geveler, D. Ribbrock, P. Zajac and S. Turek, awarded at the Second International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering.
- 2010 Best PhD Dissertation Award: This award is given by the TU Dortmund every year to the best PhD dissertation in each department.
- 2009 SIAM Travel Award for SIAM CSE'09 Conference: The Society for Industrial and Applied Mathematics supports participation in this important conference of one or two excellent PhD students with a stipend of \$500.
- 2008 PRACE Award, with S. Turek, Ch. Becker, S.H.M. Buijssen and H. Wobker (all TU Dortmund): PRACE, the Partnership for Advanced Computing in Europe, granted this award for the first time in 2008. It recognizes the best scientific paper at the ISC conference by a young researcher, see (<http://www.prace-project.eu/news/prace-award-presented-to-young-scientist-at-isc201908>, [22]).
- 2002–2004 Studienstiftung des Deutschen Volkes

4 List Of Publications

PhD Thesis

- [1] Dominik Göldeke. *Fast and Accurate Finite-Element Multigrid Solvers for PDE Simulations on GPU Clusters*. PhD thesis, Technische Universität Dortmund, Fakultät für Mathematik, May 2010. <http://hdl.handle.net/2003/27243>, <http://www.logos-verlag.de/cgi-bin/buch?isbn=2768>.

Book Chapters

- [2] Dominik Göldeke and Robert Strzodka. Mixed precision GPU-multigrid solvers with strong smoothers. In Jakub Kurzak, David A. Bader, and Jack J. Dongarra, editors, *Scientific Computing with Multicore and Accelerators*, chapter 7, pages 131–147. CRC Press, December 2010. doi: 10.1201/b10376-11.
- [3] Stefan Turek, Dominik Göldeke, Sven H.M. Buijssen, and Hilmar Wobker. Hardware-oriented multigrid finite element solvers on GPU-accelerated clusters. In Jakub Kurzak, David A. Bader, and Jack J. Dongarra, editors, *Scientific Computing with Multicore and Accelerators*, chapter 6, pages 113–130. CRC Press, December 2010. doi: 10.1201/b10376-10.

Journal Articles (peer review)

- [4] Markus Geveler, Dirk Ribbrock, Dominik Göldeke, Peter Zajac, and Stefan Turek. Towards a complete FEM-based simulation toolkit on GPUs: Unstructured grid finite element geometric multigrid solvers with strong smoothers based on sparse approximate inverses. *Computers & Fluids*, January 2012. accepted.
- [5] Markus Geveler, Dirk Ribbrock, Sven Mallach, Dominik Göldeke, and Stefan Turek. A simulation suite for Lattice-Boltzmann based real-time CFD applications exploiting multi-level parallelism on modern multi- and many-core architectures. *Journal of Computational Science*, 2:113–123, January 2011. doi: 10.1016/j.jocs.2011.01.008.
- [6] Dominik Göldeke and Robert Strzodka. Cyclic reduction tridiagonal solvers on GPUs applied to mixed precision multigrid. *IEEE Transactions on Parallel and Distributed Systems*, 22(1):22–32, January 2011. doi: 10.1109/TPDS.2010.61.
- [7] Stefan Turek, Dominik Göldeke, Christian Becker, Sven H.M. Buijssen, and Hilmar Wobker. FEAST – Realisation of hardware-oriented numerics for HPC simulations with finite elements. *Concurrency and Computation: Practice and Experience*, 22(6):2247–2265, November 2010. doi: 10.1002/cpe.1584.
- [8] Dimitri Komatitsch, Gordon Erlebacher, Dominik Göldeke, and David Michéa. High-order finite-element seismic wave propagation modeling with MPI on a large GPU cluster. *Journal of Computational Physics*, 229:7692–7714, October 2010. doi: 10.1016/j.jcp.2010.06.024.
- [9] Dimitri Komatitsch, Dominik Göldeke, Gordon Erlebacher, and David Michéa. Modeling the propagation of elastic waves using spectral elements on a cluster of 192 GPUs. *Computer Science – Research and Development*, 25(1–2):75–82, May 2010. doi: 10.1007/s00450-010-0109-1. Special Issue: Proceedings of ISC’10.
- [10] Danny van Dyk, Markus Geveler, Sven Mallach, Dirk Ribbrock, Dominik Göldeke, and Carsten Gutwenger. HONEI: A collection of libraries for numerical computations targeting multiple processor architectures. *Computer Physics Communications*, 180(12):2534–2543, December 2009. doi: 10.1016/j.cpc.2009.04.018.

- [11] Dominik Göldeke, Hilmar Wobker, Robert Strzodka, Jamaludin Mohd-Yusof, Patrick S. McCormick, and Stefan Turek. Co-processor acceleration of an unmodified parallel solid mechanics code with FEASTGPU. *International Journal of Computational Science and Engineering*, 4(4):254–269, October 2009. doi: 10.1504/IJCSE.2009.029162.
- [12] Dominik Göldeke, Robert Strzodka, Jamaludin Mohd-Yusof, Patrick S. McCormick, Hilmar Wobker, Christian Becker, and Stefan Turek. Using GPUs to improve multigrid solver performance on a cluster. *International Journal of Computational Science and Engineering*, 4(1):36–55, November 2008. doi: 10.1504/IJCSE.2008.021111.
- [13] Dominik Göldeke, Robert Strzodka, Jamaludin Mohd-Yusof, Patrick S. McCormick, Sven H.M. Buijssen, Matthias Grajewski, and Stefan Turek. Exploring weak scalability for FEM calculations on a GPU-enhanced cluster. *Parallel Computing*, 33(10–11):685–699, September 2007. doi: 10.1016/j.parco.2007.09.002.
- [14] Dominik Göldeke, Robert Strzodka, and Stefan Turek. Performance and accuracy of hardware-oriented native-, emulated- and mixed-precision solvers in FEM simulations. *International Journal of Parallel, Emergent and Distributed Systems*, 22(4):221–256, January 2007. doi: 10.1080/17445760601122076.

Conference Proceedings (peer review)

- [15] Markus Geveler, Dirk Ribbrock, Dominik Göldeke, Peter Zajac, and Stefan Turek. Towards a complete FEM-based simulation toolkit on GPUs: Geometric multigrid solvers. In *23rd International Conference on Parallel Computational Fluid Dynamics (ParCFD'11)*, May 2011.
- [16] Markus Geveler, Dirk Ribbrock, Dominik Göldeke, Peter Zajac, and Stefan Turek. Efficient finite element geometric multigrid solvers for unstructured grids on GPUs. In Peter Iványi and Barry H.V. Topping, editors, *Second International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering*, page 22, April 2011. doi: 10.4203/ccp.95.22. Young Researcher Best Paper Award.
- [17] Markus Geveler, Dirk Ribbrock, Dominik Göldeke, and Stefan Turek. Lattice-Boltzmann simulation of the shallow-water equations with fluid-structure interaction on multi- and manycore processors. In Rainer Keller, David Kramer, and Jan-Philipp Weiß, editors, *Facing the Multicore Challenge*, volume 6310 of *Lecture Notes in Computer Science*, pages 92–104. Springer, September 2010. doi: 10.1007/978-3-642-16233-6_11.
- [18] Dimitri Komatitsch, Michéa, Gordon Erlebacher, and Dominik Göldeke. Running 3d finite-difference or spectral-element wave propagation codes 25x to 50x faster using a GPU cluster. In *72nd European Association of Geoscientists and Engineers Conference and Exhibition (EAGE'2010)*, volume 4, pages 2920–2924, June 2010.
- [19] Dirk Ribbrock, Markus Geveler, Dominik Göldeke, and Stefan Turek. Performance and accuracy of Lattice-Boltzmann kernels on multi- and manycore architectures. In Peter M.A. Sloot, G. Dick van Albada, and Jack J. Dongarra, editors, *International Conference on Computational Science (ICCS'10)*, volume 1 of *Procedia Computer Science*, pages 239–247, May/June 2010. doi: 10.1016/j.procs.2010.04.027.
- [20] Dominik Göldeke, Sven H.M. Buijssen, Hilmar Wobker, and Stefan Turek. GPU acceleration of an unmodified parallel finite element Navier-Stokes solver. In Waleed W. Smari and John P. McIntire, editors, *High Performance Computing & Simulation 2009*, pages 12–21, June 2009. doi: 10.1109/HPCSIM.2009.5191718.

- [21] Sven H.M. Buijssen, Hilmar Wobker, Dominik Götdeke, and Stefan Turek. FEASTSolid and FEASTFlow: FEM applications exploiting FEAST's HPC technologies. In Wolfgang Nagel, Dietmar Kröner, and Michael Resch, editors, *High Performance Computing in Science and Engineering '08*, volume 2008 of *Transactions of the High Performance Computing Center, Stuttgart (HLRS)*, pages 425–440. Springer, December 2008. doi: 10.1007/978-3-540-88303-6_30.
- [22] Stefan Turek, Dominik Götdeke, Christian Becker, Sven H.M. Buijssen, and Hilmar Wobker. UCHPC – Unconventional high-performance computing for finite element simulations. In *International Supercomputing Conference (ISC'08)*, June 2008.
- [23] Dominik Götdeke, Hilmar Wobker, Robert Strzodka, Jamaludin Mohd-Yusof, Patrick S. McCormick, and Stefan Turek. Co-processor acceleration of an unmodified parallel structural mechanics code with FEAST-GPU, November 2007. Supercomputing 2007 Posters.
- [24] Dominik Götdeke, Christian Becker, and Stefan Turek. Integrating GPUs as fast co-processors into the parallel FE package FEAST. In Matthias Becker and Helena Szczerbicka, editors, *19th Symposium Simulationstechnique (ASIM'06)*, *Frontiers in Simulation*, pages 277–282, September 2006.
- [25] Robert Strzodka and Dominik Götdeke. Mixed precision methods for convergent iterative schemes. In *Proceedings of the Workshop on Edge Computing Using New Commodity Architectures*, pages D–59–60, May 2006.
- [26] Robert Strzodka and Dominik Götdeke. Pipelined mixed precision algorithms on FPGAs for fast and accurate PDE solvers from low precision components. In *Proceedings of the 14th Annual IEEE Symposium on Field-Programmable Custom Computing Machines (FCCM'06)*, pages 259–270, April 2006. doi: 10.1109/FCCM.2006.57.
- [27] Dominik Götdeke, Robert Strzodka, and Stefan Turek. Accelerating double precision FEM simulations with GPUs. In Frank Hülsemann, Matthias Kowarschik, and Ulrich Rüdè, editors, *18th Symposium Simulationstechnique (ASIM'05)*, *Frontiers in Simulation*, pages 139–144, September 2005.

Technical Reports and Preprints

- [28] Markus Geveler, Dirk Ribbrock, Dominik Götdeke, Peter Zajac, and Stefan Turek. Towards a complete FEM-based simulation toolkit on GPUs: Unstructured grid finite element geometric multigrid solvers with strong smoothers based on sparse approximated inverses. Technical report, Fakultät für Mathematik, TU Dortmund, October 2011. Ergebnisberichte des Instituts für Angewandte Mathematik, Nummer 434, submitted to *Computers & Fluids*.
- [29] Michael Köster, Dominik Götdeke, Hilmar Wobker, and Stefan Turek. How to gain speedups of 1000 on single processors with fast FEM solvers — Benchmarking numerical and computational efficiency. Technical report, Fakultät für Mathematik, TU Dortmund, October 2008. Ergebnisberichte des Instituts für Angewandte Mathematik, Nummer 382.
- [30] Dominik Götdeke and Robert Strzodka. Performance and accuracy of hardware-oriented native, emulated- and mixed-precision solvers in FEM simulations (part 2: Double precision GPUs). Technical report, Fakultät für Mathematik, Technische Universität Dortmund, August 2008. Ergebnisberichte des Instituts für Angewandte Mathematik, Nummer 370.
- [31] Daniel Bachmann, Przemyslaw Beben, Till Becker-Adam, André Braun, Andreas Ehrenberg, Christian Groß, Michael Hein, Matthias Miemczyk, Raphael Münster, Mark Senne, Mirko Sykorra, Klaus Wohlgemuth, Claus-Peter Alberts, and Dominik Götdeke. Beyond Graphics:

Strömungssimulation auf der GPU. Technical report, Fachbereich Informatik, Universität Dortmund, April 2006. Endbericht der Projektgruppe 471, <http://hdl.handle.net/2003/22705>.

- [32] Dominik Göldeke. GPGPU–Basic math tutorial. Technical report, Fachbereich Mathematik, Universität Dortmund, November 2005. Ergebnisberichte des Instituts für Angewandte Mathematik, Nummer 300.
- [33] Hendrik Becker, Christian Engels, Markus Glatter, Dominik Göldeke, Eduard Heinle, Matthias Kowalzik, Patrick Otto, Wissam Ousseili, Thomas Rohkämper, Matthias Schwenke, Nicole Skaradzinski, Tom Vollerthun, Claus-Peter Alberts, Jörg Ayasse, and Christian Becker. Endbericht der Projektgruppe DeViSoR. Technical report, Fachbereich Mathematik, Universität Dortmund, January 2003. Ergebnisberichte des Instituts für Angewandte Mathematik, Nummer 240T.

Diploma Thesis

- [34] Dominik Göldeke. *Geometrische Projektionstechniken auf Oberflächentriangulierungen zur numerischen Strömungssimulation mit hierarchischen Mehrgitterverfahren*. Diploma thesis, Universität Dortmund, Fachbereich Informatik, August 2004.

5 Invited Talks at Conferences, in the Industry and at Universities

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| Dec. 2011 | <i>High-order finite-element seismic wave propagation modeling with MPI on a large GPU cluster</i> , AGU Fall Meeting, special session ‘High-Resolution Modeling in the Geosciences Using GPU and Many-Core Architectures’, San Francisco, USA |
| Aug. 2011 | <i>Mixed-Precision GPU-Multigrid Solvers with Strong Smoothers</i> , ILAS Conference: Pure and Applied Linear Algebra: The new Generation. Young Researchers’ mini-symposium ‘Parallel Computing in Numerical Linear Algebra’, Technische Universität Braunschweig, Germany |
| Jun. 2011 | <i>Mixed-Precision GPU-Multigrid Solvers with Strong Smoothers and Applications in CFD and CSM</i> , SIMTECH 2011 – International Conference on Simulation Technology, Universität Stuttgart, Germany |
| Jun. 2011 | <i>Finite Element Multigrid Solvers for PDE Problems on GPUs and GPU Clusters</i> , INRIA Summer School: Toward petaflop numerical simulation on parallel hybrid architectures, INRIA Sophia Antipolis-Méditerranée, France |
| Mai 2011 | <i>GPUs in HPC: Introduction and Overview</i> , 27. Treffen Compute-Service, TU Dortmund, Germany |
| Apr. 2011 | <i>Fast and Accurate Finite Element Multigrid Solvers for PDE Problems on GPU Clusters</i> , Institut für Numerische und Angewandte Mathematik, Georg-August-Universität Göttingen, Germany |
| Mar. 2011 | <i>Hardware-Oriented Finite Element Multigrid Solvers for PDEs</i> , ASIM Workshop 2011 – Trends in Computational Science and Engineering – Foundations of Modeling and Simulation, Leibniz Rechenzentrum, Garching, Germany |
| Jan. 2011 | <i>Mixed-Precision GPU-Multigrid Solvers with Strong Smoothers</i> , Workshop: High Performance Computing and Emerging Architectures, Institute for Mathematics and Its Applications (IMA) at the University of Minnesota, Minneapolis, Minnesota, USA |

- Nov. 2009 | *Introduction to GPU Computing*, Institute of Geophysics, University of Münster, Germany
- Oct. 2009 | *GPU Cluster Computing for Finite Element Applications*, Minisymposium: GPU Computing in Computational Engineering, First International Workshop on Computational Engineering – Special Topic Fluid-Structure Interaction, Herrsching am Ammersee, Germany
- Sep. 2009 | *GPU Cluster Computing for Finite Element Applications*, 38th SPEEDUP Workshop on High-Performance Computing, EPF Lausanne, Switzerland
- Jun. 2009 | *GPU Computing with NVIDIA CUDA*, half-day tutorial, Sonderforschungsbereich 708, TU Dortmund, Germany
- May 2009 | *GPU Computing with NVIDIA CUDA*, half-day tutorial, University of Freiburg und Jedox AG (Freiburg), Germany
- Jan. 2009 | *GPU Cluster Computing for Finite Element Applications*, Workshop: Experiences with the GPU and the Cell Processor, TU Delft, Netherlands
- Aug. 2008 | *Mixed Precision Methods on GPUs*, NVISION 2008 – The World of Visual Computing, San Jose, USA
- Sep. 2007 | *Finite Element computations on GPU clusters*, Chair for Systems Simulation, University of Erlangen-Nürnberg, Germany
- Aug. 2007 | *Minimally invasive integration of GPUs to improve multigrid solver performance on a cluster*, Workshop: Software Issues in Computational Science and Engineering, Uppsala, Sweden
- Nov. 2006 | *Performance and accuracy of hardware-oriented native-, emulated- and mixed precision solvers in FEM simulations*, Workshop: General-Purpose GPU Computing – Practice And Experience, Supercomputing 2006, Tampa, Florida, USA
- Jun. 2006 | *GPUs as fast co-processors for scientific computing*, Institute of Theoretical Physics, University of Wuppertal, Germany
- Feb. 2006 | *High Performance Computing for PDE: Some numerical aspects of Petascale Computing* (with S. Turek), Dagstuhl Seminar on Algorithms and Architectures for Petascale Computing, Schloss Dagstuhl, Germany
- Sep. 2005 | *Introduction to data-stream based computations on graphics hardware*, 18th Symposium Simulation Technique (ASIM'05), University of Erlangen-Nürnberg, Germany

6 Scientific Activities

6.1 Organisation of Workshops, Minisymposia and Tutorials at Conferences (including own talks)

- Sep. 2011 | *GPU and OpenCL Tutorials*, Parallel Processing and Applied Mathematics (PPAM 2011), Toruń, Poland (with J. Kurzak and J.P. Weiß)
- Sep. 2011 | *Advanced Numerical Methods on GPUs*, Mini-Symposium, ENUMATH 2011, Leicester, UK (with S. Turek)
- Jun. 2010 | *GPU Computing in Computational Fluid Dynamics*, Mini-Symposium, ECCOMAS-CFD 2010, Lisboa, Portugal (with S. Turek)
- Sep. 2009 | *GPGPU and OpenCL Tutorials*, Parallel Processing and Applied Mathematics (PPAM 2009), Wrocław, Poland (with R. Strzodka und D. Behr)
- Sep. 2009 | *Tutorial on the practical use of GPUs*, 38th SPEEDUP Workshop on High-Performance Computing, EPF Lausanne, Switzerland (with R. Strzodka und Ch. Sigg)

Mar. 2009	<i>Scientific Computing on Emergent Many-Core Architectures</i> , Minisymposium, SIAM Conference on Computational Science and Engineering, Miami, Florida, USA (with M. Giles and S. Turek)
Feb. 2008	<i>GPGPU and CUDA Tutorials</i> , Architecture of Computer Systems (ARCS 2008), Dresden, Germany (with R. Strzodka und S. Green)
May 2006	<i>General Purpose Computation on Graphics Hardware: Methods, Algorithms and Applications</i> , Workshop, International Conference on Computational Science (ICCS 2006), Reading, UK (with S. Turek)
May 2006	<i>General Purpose Computation on Graphics Hardware</i> , Tutorial, International Conference on Computational Science (ICCS 2006), Reading, UK (with R. Strzodka)

6.2 Program Committees

2012	<i>Forth Workshop on Emerging Parallel Architectures (WEPA)</i> , ICCS 2012 – 12th International Conference on Computational Science, http://www.iccs-meeting.org/
2012	<i>Special Session on GPU Computing and Hybrid Computing</i> , PDP2012 – 20th Euromicro International Conference on Parallel, Distributed and Network-Based Computing, http://conf.laas.fr/GPU/
2011	<i>Facing the Multicore-Challenge II</i> , http://www.multicore-challenge.org
2011	<i>Workshop on GPU Computing</i> , PPAM 2011 – 9th International Conference on Parallel Processing and Applied Mathematics, http://ppam.pl/minisymposium-on-gpu-computing
2011	<i>Fourth Workshop on UnConventional High Performance Computing (UCHPC 2011)</i> , Euro-Par 2011, http://www.lrr.in.tum.de/~weidendo/uchpc11/
2011	<i>New Frontiers in High-performance and Hardware-aware Computing (HipHac 2011)</i> , IEEE International Symposium on High-Performance Computer Architecture (HP-CA'11), http://www.hiphac.org/
2010	<i>Third Workshop on UnConventional High Performance Computing (UCHPC 2010)</i> , Euro-Par 2010, http://www.lrr.in.tum.de/~weidendo/uchpc10/
2010	<i>Computational Intelligence on Consumer Games and Graphics Hardware (CIGPU 2010)</i> , IEEE World Congress on Computational Intelligence (WCCI 2010), http://www.cs.ucl.ac.uk/staff/W.Langdon/cigpu/

6.3 Reviewer Services

Deutsche Forschungsgemeinschaft (DFG):

2010	blinded, for obvious reasons
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International Journals:

CAF	Computers and Fluids (Elsevier)
CAG	Computers and Graphics (Elsevier)
CAM	Journal of Computational and Applied Mathematics (Elsevier)
CCPE	Concurrency and Computation: Practice and Experience (Wiley)
CiSE	Computing in Science and Engineering (American Association of Physics und IEEE Computer Society)

CMES	Computer Modeling in Engineering & Sciences (Tech Science Press)
CPE	Computer Physics Communication (Elsevier)
CVS	Computing and Visualization in Science (Springer)
IJCSE	International Journal of Computational Science and Engineering (Inderscience)
IJCSSE	International Journal of Computer Systems Science & Engineering (CRL Publishing)
IJEST	International Journal of Engineering, Science and Technology (Multicraft Publishers)
IJNME	International Journal for Numerical Methods in Engineering (Wiley)
IJPEDS	International Journal of Parallel, Emergent and Distributed Systems (Taylor & Francis)
JCOMP	The Computer Journal (Oxford University Press)
JOCS	Journal of Computational Science (Elsevier)
JPDC	Journal of Parallel and Distributed Computing (Elsevier)
JSC	Journal of Supercomputing (Springer)
SIMPAT	Simulation Modelling Practice and Theory (Elsevier)
SISC	SIAM Journal on Scientific Computing (SIAM)
TPDS	IEEE Transactions on Parallel and Distributed Systems (IEEE Computer Society)

Conferences and Conference Proceedings:

CF	ACM International Conference on Computing Frontiers
EG	Eurographics: Annual Conference of the European Association for Computer Graphics
EUROPAR	Euro-Par
EUROVIS	Eurographics / IEEE Symposium on Visualization
HPCA	IEEE International Symposium on High-Performance Computer Architecture
HPCS	IEEE Symposium on High Performance Computing and Simulation
ICCS	International Conference on Computer Science
INPAR	Innovative Parallel Computing
PPAM	International Conference on Parallel Processing and Applied Mathematics
WCCI	IEEE World Congress on Computational Intelligence

6.4 Miscellaneous

I am working as assistant editor for the web site <http://gpgpu.org>, maintained by M. Harris. Since 2002, this „community-site“ catalogues research activities, publications, developer resources, calls for papers etc. in the field of *General Purpose Computations on Graphics Processors* (GPU Computing). In 2005–2006 I spent some time writing one of the first set of concise GPGPU programming tutorials and made them available on my homepage. In that time, CUDA, OpenCL and other high-level programming APIs were nonexistent and scientific computations had to be cast in terms of graphics API calls.