

# MORRIS RIEDEL

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Juelich Supercomputing Centre  
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## EDUCATION

### Karlsruhe Institute of Technology (KIT)

PhD, Computer Science  
Dissertation: *Design and Applications of an Interoperability Reference Model for Production e-Science Infrastructures*

Karlsruhe, Germany  
2012

### University of Hagen

M.SC, Computer Science  
Thesis: *Design and Evaluation of a Collaborative Online Visualization and Steering Framework for e-Science Applications in Grids*

Hagen, Germany  
2007

### University of Applied Sciences Cologne

Diplom – Informatiker (FH), Computer Science  
Thesis: *Prospects and Realization of Flexible Service Offers in a Grid Environment*

Köln, Germany  
2004

## LEADERSHIP EXPERIENCE

### Juelich Supercomputing Centre

Federated Systems and Data Division

Juelich, Germany  
2010 – present

#### Role: Deputy Division Leader

- Co-lead a technical research and development division of technology for distributed/federated systems and ‘big data’ in context of scientific high performance computing (HPC) resources
- Contributed to roundtable discussions of division leaders with regard to daily management and operation of a HPC center
- Managed budget of several European Commission projects

### Juelich Supercomputing Centre

Federated Systems and Data Division

Juelich, Germany  
2008 – present

#### Role: Head of Research Group “Interoperability and Applications”

- Lead a focussed technical research group on interoperability and scientific applications in distributed computing and data infrastructures
- Designed and implemented a reference model for distributed computing and data infrastructures following the TCP/IP vs. ISO/OSI approach
- Analyzed and supported scientific application users in bio-informatics, e-Health, and fusion science

## RESEARCH EXPERIENCE

- EUDAT European Commission Project** Juelich, Germany  
 European Data Infrastructure 2011 – present  
<http://www.eudat.eu>  
**Role: Task Force Leader “Safe Data Replication”**  
 — Lead small focussed research team to develop a safe replication service with geographically distributed storage resources
- XSEDE National Science Foundation Project** Juelich, Germany  
 Extreme Science and Engineering Discovery Environment 2011 – present  
<http://www.xsede.org>  
**Role: XSEDE IT Architect**  
 — Created the architecture of the XSEDE infrastructure  
 — Worked together with experts of the Carnegie Mellon University Software Engineering Institute and distinguished professors of computer science (Prof. D. Lifka, Prof. A. Grimshaw, and Prof. I. Foster)
- EMI European Commission Project** Juelich, Germany  
 European Middleware Initiative  
<http://www.eu-emi.eu>  
**Role: Strategic Director** 2011 – present  
 — Analyzed and defined strategic development roadmaps of middleware  
**Role: Deputy Technical Director** 2010 – 2011  
 — Co-lead an international development team of ~20 middleware products
- DEISA European Commission Project** Juelich, Germany  
 Distributed European Infrastructure for Supercomputing Applications 2008 – 2010  
<http://www.deisa.eu>  
**Role: Expert for “Open Standards and Interoperability”**  
 — Analyzed technical open standard specifications for their suitability in being used in a pan-European supercomputing infrastructure
- OMII – Europe European Commission Project** Juelich, Germany  
 Open Middleware Infrastructure Institute for Europe 2006 – 2008  
<http://www.omii-europe.org>  
**Role: Expert for “Infrastructure Integration and Interoperability”**  
 — Analyzed and implemented scientific applications in the context of middleware for geographically dispersed infrastructure resources
- UniGrids European Commission Project** Juelich, Germany  
 Uniform Interface to Grid Services 2004 – 2006  
<http://www.unigrids.org/>  
**Role: Leader of “Standardization Activities”**  
 — Created a uniform interface to stateful Web services (i.e. Grid services) and enabled applications with computational steering and visualizations
- D-Grid German BMBF Project** Juelich, Germany  
 German D-Grid Integration Project 2004 – 2005  
<http://www.d-grid.de/>  
**Role: SW – Engineer**  
 — Designed and implemented open standards in middleware technologies as well as computational steering and online visualization solutions

## RELATED PROFESSIONAL EXPERIENCE

<b>Member of the Advisory Board</b>	2011 – present
— EC Scientific Gateway Based User Support (SCIBUS) Project	
<b>Member of the Project Executive Board (PEB)</b>	2010 – present
— EC European Middleware Initiative (EMI) Project	
<b>Member of the Roadmap Editorial Board (REB)</b>	2010 – 2012
— EC Standards and Interoperability for e-Infrastructure Implementation Initiative (SIENA) Project	
<b>Chair of the Project Technical Board (PTB)</b>	2010 – 2011
— EC European Middleware Initiative (EMI) Project	
<b>Organizer of Minisymposium</b>	2010
— Distributed Computing Infrastructure Interoperability Minisymposium co-located with 10th International Workshop on State-of-the-Art in Scientific and Parallel Computing (PARA 2010)	
<b>Member of the User Advisory Board</b>	2009 – present
— US National Science Foundation FutureGrid Project	
<b>Guest Editor of Journal Special Issue</b>	2009
— Springer Journal of Grid Computing, Special Issue ‘Interoperability’, Volume 7, Issue 3	
<b>Chair of Standardization Group</b>	2008 – present
— Open Grid Forum, ‘Production Grid Infrastructure’ Working Group	
<b>Program Chair and Workshop Organizer</b>	2008
— International Grid Interoperability and Interoperation Workshop (IGIIW) 2008 co-located with 4th IEEE International Conference on e-Science	
<b>Chair of Standardization Group</b>	2007 – present
— Open Grid Forum, ‘Grid Interoperation Now’ Community Group	
<b>Member of the Technical Board</b>	2007 – 2008
— EC Open Middleware Infrastructure Institute for Europe (OMII – Europe) Project	
<b>Program Chair and Workshop Organizer</b>	2007
— International Grid Interoperability and Interoperation Workshop (IGIIW) 2007 co-located with 3rd IEEE International Conference on e-Science and Grid Computing	

## AWARDS

Open Grid Forum Leadership Award	2011
Ferchau Engineering Award for Extraordinary Studies	2004

## TEACHING EXPERIENCE

<b>Ludwig-Maximilians University of Munich</b>	Munich, Germany
Guest Lecture ‘Interoperability’, Grid Computing course	2012
— Supervisor: Prof. Dr. Dieter Kranzlmüller	
<b>RWTH Aachen University of Technology</b>	Aachen, Germany
Teaching Assistant, ‘Handling Large Datasets’ course	2007 – 2009
— Supervisor: Prof. Dr. Felix Wolf	
Teaching Assistant, ‘Grid Computing’ course	2006 – 2008
— Supervisor: Prof. Dr. Felix Wolf	
<b>University of Applied Science FH Aachen</b>	Aachen, Germany
Teaching Assistant, ‘Distributed Systems’ course	2008 – 2009
— Supervisor: Prof. Dr. Volker Sander	
<b>University of Applied Sciences Cologne</b>	Koeln, Germany
Guest Lecturer, ‘Scientific Computing and Grid Computing’	2008

## PROFESSIONAL COMMITTEE MEMBERSHIPS

### Member of the Program Committee

— The International Conference for High Performance Computing, Networking, Storage, and Analysis (SC); Birds of Feather Sessions (BoFs)	2012
— The International Parallel and Distributed Processing Symposium (IPDPS); High-Performance Grid and Cloud Computing Workshop (HPGC)	2012
— The International Conference on e-Science (e-Science); First Workshop on Maintainable Software Practices in e-Science (SoftwarePractice)	2012
— The International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP)	2012
— The International Conference on High Performance Computing and Communications (HPCC)	2011 – present
— The EGI Community Forum/EMI Technical Conference	2011 – present
— The International Conference on Cloud and Green Computing (CGC)	2011 – present
— The International Conference on Cloud Computing Technology and Science (CloudCom)	2011
— The International Conference on Computational Science (ICCS)	2010 – present
— The International Symposium on High Performance Distributed Computing (HPDC); Workshop Challenges of Large Applications in Distributed Environments (CLADE)	2010
— The International Conference on Network-Based Information Systems (NBIS)	2010
— The International Conference on Parallel Processing (ICPP); International Workshop on Scheduling and Resource Management for Parallel and Distributed Systems (SRMPDS)	2008 – present

### Member of the Steering Committee

— International Supercomputing Conference on Cloud Computing (ISC)	2011 – present
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## PROFESSIONAL ASSOCIATIONS

Institute of Electrical and Electronics Engineers (IEEE)	2010 – present
Association for Computing Machinery (ACM)	2011 – present
German Association for Informatics (Gesellschaft fuer Informatik e.V.)	2011 – present

## SELECTED INFLUENTIAL DOCUMENTS

Expert Input to Report for Lower House of German Parliament - Deutscher Bundestag, Enquete-Kommission Internet und Digitale Gesellschaft <b>Bericht - Projektgruppe Interoperabilität, Standards, Freie Software</b> , Vorsitzender: Abgeordneter Jimmy Schulz, German Language, Co-authors: Manfred Broy, Gerhard P. Fettweis, Otthein Herzog, Knut Manske, <b>Morris Riedel</b> , Ina Schieferdecker, Lena-Sophie Müller, Klaus-Peter Eckert, Mathias Uslar	2013
Expert Input to the Standards and Interoperability for e-Infrastructure Implementation Initiative (SIENA) Roadmap, Member of Roadmap Editorial Board (REB), <b>The SIENA Roadmap on Distributed Computing Infrastructure for e-Science and Beyond in Europe</b> , Chair: Martin Antony Walker, Co-authors Joe Bagueuly, David Bernstein, Robert Bohn, Goetz-Philip Brasche, Winston Bumpus, Mark Carlson, Daniele Catteddu, Subrata Chattopadhyay, Guy Coates, Marnix Dekker, Michel Drescher, Ake Edlund, Thomas Edwall, Ad Emmen, Mike Fisher, Vangelis Floros, Geoffrey Fox, Vincent Franceschini, Fabrizio Gagliardi, Dennis Gannon, Yury Gilkman, Atsurhiro Goto, Patrick Guillemin, Gudmund Høst, Gershon Janssen, Bob Jones, Jean-Pierre Laisne, Erwin Laure, Dawn Leaf, Craig Lee, Ignacio Martin Llorente, Andrea Manieri, Bob Marcus, Karl Mayrhofer, Thijs Metsch, Pietro Michiardi, Steven Newhouse, Ian Osborne, Alexander Papaspyrou, Dana Petcu, <b>Morris Riedel</b> , Hiroshi Sakai, Alan Sill, Paul Strong, Etienne Urbah and Rigo Wenning	2012
Expert Input to the Extreme Science and Engineering Discovery Environment (XSEDE) Architecture, Member of XSEDE Architecture Team <b>XSEDE Architecture Level 3 Decomposition Version 0.9</b> , Chair: Dave Lifka, Co-authors Felix Bachmann, Ian Foster, Andrew Grimshaw, <b>Morris Riedel</b> , Steve Tuecke	2012
Expert Input to the Extreme Science and Engineering Discovery Environment (XSEDE) Architecture, Member of XSEDE Architecture Team <b>XSEDE Architecture Level 1 and 2 Decomposition Version 1.0</b> , Chair: Dave Lifka, Co-authors Felix Bachmann, Ian Foster, Andrew Grimshaw, <b>Morris Riedel</b> , Steve Tuecke	2012
Expert Input to the Open Grid Forum (OGF) Production Grid Infrastructure (PGI) Scientific Use Cases, Chair of the OGF PGI Working Group, <b>OGF – Production Grid Infrastructure Use Case Collection Version 1.0</b> , Editors: <b>Morris Riedel</b> and Johannes Watzl, Co-authors Emmanouil Paisios, Luigi Zangrando, Etienne Urbah, Andrew Grimshaw, Mark Morgan, Steve Crouch, <b>Morris Riedel</b> , Oxana Smirnova, Ivan Degtyarenko, Kazushige Saga, Aleksandr Konstantinov, Steven Newhouse	2011

## SELECTED PRESENTATIONS

- High Productivity Processing - Engaging in Big Data around Scientific Computing***, Málstofa í tölvunarfræði og reiknifræði - Seminar in Computer and Computational Science, Faculty of Industrial Engineering, Mechanical Engineering, and Computer Science, University of Iceland, Iceland, 2013-01-09  
Reykjavik, Iceland  
2013
- Nationale Forschungsinfrastrukturen im EU-Rahmen***  
Forschung – Information – Infrastruktur: Bausteine für Open Science  
13. DINI-Jahrestagung, September 2012, Karlsruhe, Germany  
2013-09-25, Festsaal des Studentenhauses auf dem Campus Süd des  
Karlsruher Instituts für Technologie (KIT), German Language  
Karlsruhe, Germany  
2012
- Design and Applications of an Interoperability Reference Model for Production e-Science Infrastructures***, Seminar at Steinbuch Centre for Computing, Karlsruhe Institute of Technology, Germany, 2012-07-25  
Karlsruhe, Germany  
2012
- Bedeutung von Interoperabilität und Standards in Grid Infrastrukturen***  
Guest Lecture about 'Interoperability' at Ludwig-Maximilians University of Munich, Course 'Grid Computing', Summer 2012, Germany  
2012-07-04, German Language  
Munich, Germany  
2012
- e-Science Infrastructure Integration Invariants to Enable HTC and HPC Interoperability Applications***, 25th IEEE International Parallel & Distributed Processing Symposium (IPDPS) 2011, Conference presentation, Anchorage, Alaska, USA, 2011-05-16  
Anchorage, USA  
2011
- Overview of EMI Middleware***, Joint European Distributed Computing Infrastructures - Summer School (DCISS), Invited Talk at 'Computer and Automation Research Institute of the Hungarian Academy of Sciences', Budapest, Hungary, 2011-07-11  
Budapest, Hungary  
2011
- Workspaces – Concept and functional aspects***, A 'You-tube for science' inspired by the High Level Expert Group Report on Scientific Data, The Language Archive - Repository and Workspace Workshop Day 2 - Workspaces and Web Services, Invited Talk at Rechenzentrum Garching (RZG), Munich, 2012-09-21  
Munich, Germany  
2010
- The Seven Habbits of Highly Effective Cloud Standardization Processes***, Some Suggestions based on Lessons Learned from Standardization and Interoperability of Next Generation Computing Infrastructures, Invited Talk at CloudCamp Berlin, Germany, 2009-04-30  
Berlin, Germany  
2009
- e-Science with UNICORE***, Invited Talk at International Summerschool on Grid Computing (ISSGC) 2008, Balatonfuered, Hungary, 2008-07-08  
Balatonfuered, Hungary  
2008
- Collaborative Interactivity in Parallel HPC Applications***, Conference presentation 'Instrumenting the Grid (InGrid) 2008, Island of Ischia, Italy, 2008-04-09  
Island of Ischia, Italy  
2008

**PEER-REVIEWED PUBLICATIONS**

**M. Riedel**, P. Wittenburg, J. Reetz, M. van de Sanden, J. Rybicki, B. von St. Vieth, G. Fiameni, G. Mariani, A. Michellini, C. Cacciari, W. Elbers, D. Broeder, R. Verkerk, E. Erastova, M. Lautenschlaeger, R. Budig, H. Thielmann, P. Coveney, S. Zasada, A. Haidar, O. Buechner, C. Manzano, S. Memon, S. Memon, H. Helin, J. Suhonen, D. Lecarpentier, K. Koski and Th. Lippert, *A Data Infrastructure Reference Model with Applications: Towards Realization of a ScienceTube Vision with a Data Replication Service*, Journal of Internet Services and Applications, Volume 4, Issue 1, DOI 10.1186/1869-0238-4-1, Springer London, 2013

D. Mallmann, B. von St. Vieth, **M. Riedel**, J. Rybicki, K. Koski, D. Lecarpentier, P. Wittenburg, *EUDAT - Towards a pan-European Collaborative Data Infrastructure*, Inside, Vol. 10, 1, pp. 84-85, 2012

C. Aiftimiei, A. Aimar, A. Ceccanti, M. Cechi, A. Di Meglio, F. Estrella, P. Fuhrmann, E. Giorgio, B. Konya, J. Nilsen, **M. Riedel**, J. White, *Towards Next Generations of Software for Distributed Infrastructures: The European Middleware Initiative*, Proceedings of the 8th IEEE Conference on e-Science, Chicago, USA, 2012, ISBN 978-1-4673-4467-8, 2012

A. Di Meglio, F. Estrella, **M. Riedel**, *On realizing the concept study ScienceSoft of the European Middleware Initiative: Open Software for Open Science*, Proceedings of the 8th IEEE Conference on e-Science, Chicago, USA, 2012, ISBN 978-1-4673-4467-8, 2012

M.S. Memon, J. Rybicki, **M. Riedel**, A.S. Memon, E. Yen, *Bridging the Gaps: Federation of Clouds Using Grid Services and Standards*, Proceedings of the 35th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO, Opatija, Croatia, Ed.: P. Biljanovic, Z. Butkovic, K. Skala, S. Golubic, N. Bogunovic, S. Ribaric, M. Cicin-Sain, D. Ciscic, Z. Hutinski, M. Baranovic, M. Mauher, J.Ulemek, IEEE, ISBN 978-1-4673-2577-6, pp. 411 - 416, 2012

S. A. Memon, **M. Riedel**, L. Field, G. Szigeti and I. Marton, *EMIR: An EMI Service Registry for Federated Grid Infrastructures*, Proceedings of Science, Proceedings of the EGI Community Forum 2012 / EMI Second Technical Conference, Munich, Germany, 2012

S.M. Memon, **M. Riedel**, B. Hagemeyer, B. Schuller and M. Carpené, *UNICORE EMI-Execution Service Realization towards Improved Open Standard*, Proceedings of Science, Proceedings of the EGI Community Forum 2012 / EMI Second Technical Conference, Munich, Germany, 2012

**M. Riedel**, J. Rybicki and A. Di Meglio, *Software for Distributed Systems - The EMI Product Portfolio*, Proceedings of Science, Proceedings of the EGI Community Forum 2012 / EMI Second Technical Conference, Munich, Germany, 2012

**M. Riedel**, A. Grimshaw, Th. Lippert, *UNICORE 2020 – Strategic Options for the Future*, Proceedings of the UNICORE Summit 2012, Dresden, Germany, ed.: V. Huber, R. Müller-Pfefferkorn, M. Romberg, Forschungszentrum Jülich, 2012, IAS Series Vol. 15., ISBN 978-3-89336-829-7, 2012

**M. Riedel**, B. Demuth, *UNICORE in XSEDE: Towards a large-scale scientific Environment based on Open Standards*, Inside, Vol. 9, 2, pp. 52-53, 2011

**M. Riedel**, *e-Science Infrastructure Interoperability Guide: The Seven Steps Toward Interoperability for e-Science*, Book chapter, Guide to e-Science, Next Generation Scientific Research and Discovery, Computer Communications and Networks, Part 3, edited by Xiaoyu Yang, Lizhe Wang and Wei Jie, Springer, ISBN 978-0-85729-438-8, pp. 233-264, 2011

W. Gentsch, D. Girou, A. Kennedy, H. Lederer, J. Reetz, **M. Riedel**, A. Schott, A. Vanni, M. Vazquez, J. Wolfrat, *DEISA - Distributed European Infrastructure for Supercomputing Applications*, Journal of Grid Computing, 9 (2011) 2, 2011, pp. 259 – 277, 2011

**M. Riedel**, M.S. Memon, A.S. Memon, D. Mallmann, Th. Lippert, D. Kranzlmüller, A. Streit, *e-Science Infrastructure Integration Invariants to Enable HTC and HPC Interoperability Applications*, Parallel and Distributed Processing Workshops and Phd Forum (IPDPSW), 2011 IEEE International Symposium, Shanghai, IEEE, ISBN 978-1-61284-425-1, pp. 922 - 931, 2011

A. Di Meglio, **M. Riedel**, M.S. Memon, C. Loomis, D. Salomoni, *Grids and Clouds Integration and Interoperability: An Overview*, Proceedings of Science, Proceedings of the the Int. Symposium on Grids and Clouds and the Open Grid Forum, ISGC 2011 & OGF 31, Taipei, Taiwan, 2011

**M. Riedel**, A. Streit, D. Kranzlmüller, D. Mallmann, Th. Lippert, *Requirements of an e-Science Infrastructure Interoperability Reference Model*, Proceedings of the 34th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO, Opatija, Croatia, IEEE, ISBN 978-1-4577-0996-8, pp. 221 - 226, 2011

**M. Riedel**, B. Schuller, M. Rambadt, M.S. Memon, A.S. Memon, A. Streit, F. Wolf, Th. Lippert, S.J. Zasada, S. Manos, P.V. Coveney, F. Wolf, D. Kranzlmüller, *Exploring the Potential of Using Multiple e-Science Infrastructures with Emerging Open Standards-based e-Health Research Tools*, Proceedings of the 10th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid), Melbourne, Australia, pp. 341 - 348, 2010

**M. Riedel**, M.S. Memon, A.S. Memon, A. Streit, F. Wolf, Th. Lippert, B. Konya, A. Konstaninov, O. Smirnova, M. Marzolla, L. Zangrando, J. Watzl, D. Kranzlmüller, *Improvements of Common Open Grid Standards to Increase High Throughput and High Performance Computing Effectiveness on Large-scale Grid and e-Science Infrastructures*, Proceedings of the 7th High-Performance Grid Computing (HPGC) Workshop at International Parallel and Distributed Processing Symposium (IPDPS), Atlanta, USA, pp. 1-7, 2010

B. Schuller, **M. Riedel**, A. Streit, *Recent Advances in the UNICORE 6 Middleware*, Inside, Vol. 8, 1, pp. 46-49, 2010

A. Streit, P. Bala, A. Beck-Ratzka, K. Benedyczak, S. Bergmann, R. Breu, J. M. Daivandy, B. Demuth, A. Eifer, A. Giesler, B. Hagemeyer, S. Holl, V. Huber, N. Lamla, D. Mallmann, A. S. Memon, M. S. Memon, M. Rambadt, **M. Riedel**, M. Romberg, B. Schuller, T. Schlauch, A. Schreiber, T. Soddemann, W. Ziegler, *UNICORE 6 - Recent and Future Advancements* Annals of Telecommunications, Springer, Volume 65, Issue 11-12, pp 757-762, 2010

**M. Riedel**, W. Frings, Th. Eickermann, S. Habbinga, P. Gibbon, D. Mallmann, A. Streit, F. Wolf, Th. Lippert, *Collaborative Interactivity in Parallel HPC Applications*, Proceedings of the Instrumenting the Grid (InGrid) 2008 Workshop, Island of Ischia, Italy, published in F. Davoli et al. (eds.), Remote Instrumentation and Virtual Laboratories, Springer, pp. 249-262, 2010

**M. Riedel**, A. Streit, D. Mallmann, F. Wolf, and Th. Lippert, *Experiences and Requirements for Interoperability between HTC- and HPC-driven e-Science Infrastructures* Proceedings of the Korea e-Science All Hands Meeting, Workshop HPC for e-Science, Daejeon, Korea, 2008, published in: Future Application and Middleware Technology on e-Science, Ok-Hwan Byeon, Jang Hyuk Kwon, Thom Dunning, Kum Won Cho and Aurore Savoy-Navarro (Editors), Springer, ISBN 978-1-4419-1724-9, pp. 113-123, 2010

S. Holl, **M. Riedel**, B. Demuth, M. Romberg and A. Streit, *Supporting Scientific Biological Applications with Seamless Database Access in Interoperable E-Science Infrastructures*, Proceedings of the First International Conference on Bioinformatics, Valencia, Spain, 2010, ed.: A.L. N. Fred, J. Filipe, H. Gamboa, INSTICC Press, ISBN 978-989-674-019-1, pp. 203 - 206, 2010



W. Gentsch, A. Kennedy, H. Lederer, G. Pringle, J. Reetz, **M. Riedel**, B. Schuller, A. Streit, and J. Wolfrat, *DEISA: e-Science in a Collaborative, Secure, Interoperable and User-Friendly Environment*, Proceedings of e-Challenges 2010 Conference, Warsaw, Poland, ISBN: 978-1-905824-20-5, pp. 1-10, 2010

M. S. Memon, **M. Riedel**, A. S. Memon, F. Wolf, A. Streit, Th. Lippert, M. Plociennik, M. Owsiak, D. Tskhakaya, Ch. Konz, *Lessons Learned From Jointly Using HTC- and HPC-driven e-Science Infrastructures in Fusion Science*, 2010 International Conference on Information and Emerging Technologies (ICIET), Karachi, Pakistan, ISBN 978-1-4244-8001-2, pp. 1-6, 2010

**M. Riedel**, A.S. Memon, M.S. Memon, S. Holl, D. Mallmann, N. Lamla, A. Streit, Th. Lippert *The Key Role of the UNICORE Technology in European Distributed Computing Infrastructures Supporting e-Science Applications in the Decades to Come* Proceedings of the UNICORE Summit 2010, Jülich, Germany, ed.: A. Streit, M. Romberg, D. Mallmann, Forschungszentrum Jülich, 2010, IAS Series Vol. 5., ISBN 978-3-89336-661-3, pp. 83 - 94, 2010

A. Streit, S. Bergmann, R. Breu, J. Daivandy, B. Demuth, A. Giesler, B. Hagemeyer, S. Holl, V. Huber, D. Mallmann, A.S. Memon, M.S. Memon, R. Menday, M. Rambadt, **M. Riedel**, M. Romberg, B. Schuller, and Th. Lippert, *UNICORE 6 - A European Grid Technology*, L. Grandinetti, G. Joubert, W. Gentsch (Eds.), Trends in High Performance and Large Scale Computing, IOS Press, Advances in Parallel Computing Vol. 18, ISBN 978-1-60750-073-5, pp. 157 - 173, 2010

**M. Riedel**, E. Laure, T. Soddemann, L. Field, J.P. Navarro, J. Casey, M. Litmaath, J.P. Baud, B. Koblitz, C. Catlett, D. Skow, C. Zheng, PM. Papadopoulos, M. Katz, N. Sharma, O. Smirnova, B. Kónya, P. Arzberger, F. Würthwein, A.S. Rana, T. Martin, M. Wan, V. Welch, T. Rimovsky, S. Newhouse, A. Vanni, Y. Tanaka, Y. Tanimura, T. Ikegami, D. Abramson, C. Enticott, G. Jenkins, R. Pordes, S. Timm, G. Moont, M. Aggarwal, D. Colling, O. van der Aa, A. Sim, V. Natarajan, A. Shoshani, J. Gu, G. Galang, R. Zappi, L. Magnoni, V. Ciaschini, M. Pace, V. Venturi, M. Marzolla, P. Andreetto, B. Cowles, S. Wang, Y. Saeki, H. Sato, S. Matsuoka, P. Uthayopas, S. Sriprayoosakul, O. Koeroo, M. Viljoen, L. Pearlman, S. Pickles, D. Wallom, G. Moloney, J. Lauret, J. Marsteller, P. Sheldon, S. Pathak, S. De Witt, J. Mencák, J. Jensen, M. Hodges, D. Ross, S. Phatanapherom, G. Netzer, A.R. Gregersen, M. Jones, S. Chen, P. Kacsuk, A. Streit, D. Mallmann, F. Wolf, T. Lippert, T. Delaitre, E. Huedo, N. Geddes, *Interoperation of World-Wide Production e-Science Infrastructures*, Concurrency and Computation: Practice and Experience, Vol. 21, 8, pp. 961-990, 2009

**M. Riedel**, F. Wolf, D. Kranzlmüller, A. Streit, T. Lippert, *Research Advances by Using Interoperable e-Science Infrastructures - The Infrastructure Interoperability Reference Model Applied in e-Science*, Cluster Computing, Vol. 12, 4, pp. 357-372, 2009

**M. Riedel** and G. Terstyanszky, *Grid Interoperability for e-Research*, Special Issue 'Interoperability' of Journal of Grid Computing Vol. 7, No. 3, pp. 285--286, 2009

D. Becker, **M. Riedel**, A. Streit, F. Wolf, *Grid-Based Workflow Management for Automatic Performance Analysis of Massively Parallel Applications*, Proceedings of the 3rd CoreGRID Workshop on Grid Middleware, 2008, Barcelona, Spain / ed.: N. Meyer, D. Talia, R. Yahyapour. - Springer, 2009, ISBN 978-0-387-85965-1, pp. 103 - 118, 2009

M.S. Memon, A.S. Memon, **M. Riedel**, A. Streit, F. Wolf, *Enabling Grid Interoperability by Extending HPC-driven Job Management with an Open Standard Information Model*, Eighth IEEE/ACIS International Conference on Computer and Information Science (ICIS), Shanghai, China, ISBN 978-0-7695-3641-5, pp. 506 - 511, 2009

**M. Riedel**, A. Streit, Th. Lippert, F. Wolf, D. Kranzlmüller, *Concepts and Design of an Interoperability Reference Model for Scientific- and Grid Computing Infrastructures*, Proceedings of the Applied Computing Conference, in Mathematical Methods and Applied Computing, Volume II, WSEAS Press, ISBN 978-960-474-124-3, pp. 691 - 698, 2009

F. Hedman, **M. Riedel**, P. Mucci, G. Netzer, A. Gholami, M. S. Memon, A. S. Memon, Z. A. Shah *Benchmarking of Integrated OGSA-BES with the Grid Middleware*, Proceedings of 4th UNICORE Summit 2008, Springer Lecture Notes in Computer Science (LNCS) 5415, Euro-Par 2008 workshop proceedings, pp. 113-122, 2009

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