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# WORK ADDRESS

Gregor von Laszewski

Assistant Director Digital Science Center

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# EDUCATION

*Sep. 1991 - Nov. 1996:* Ph.D., Computer Science, Syracuse University, Syracuse, NY.

Thesis: A Parallel Data Assimilation System and Its Implications

on a Metacomputing Environment. Advisor: Geoffrey C. Fox

*Sep. 1990 – Sep. 1991:* GraduateFellowship The Ohio State University as exchange student,  
 Columbus, OH

*Sep. 1987 - Nov. 1990:* Diploma (M.S., Grade A), Computer Science, University of Bonn, Germany.

Thesis: A Parallel Genetic Algorithm for the K-way Graph Partitioning

Problem. Advisor: Heinz Mühlenbein

*Sep. 1984 - Apr. 1987:* Pre-Diploma (B.S.), Computer Science, University, of Bonn, Germany.

# APPOINTMENTS

*Sep. 2016-present:* Adjunct Associate Professor Intelligent Systems Engineering Department,

Indiana University, Bloomington, IN

*Jul. 2012-present:* Assistant Director, Digital Science Center, Indiana University,   
Bloomington, IN

*Jul. 2009 – 2015:* Community GridsLab, Pervasive, Technology Institute, Assistant Director of Cloud Computing, Indiana University, Bloomington, IN

*Sep. 2012 – Sep. 2015:* Adjunct Associate Professor, Computer, Science Department, Indiana

University, Bloomington, IN

*Jul. 2009 – Jan. 2015:* Lead Software Architect, FutureGrid, Indiana University, Bloomington, IN

*Apr. 2002 – Jul. 2009:*  Argonne National Laboratory, Argonne, IL. Scientist, Mathematics

and Computer Science Division.

*Aug. 2007 – Jul. 2009:* As part of a two year sabbatical from Argonne National Laboratory, Argonne,

IL. Scientist, Mathematics and Computer Science Division:  
 Director, Service Oriented Cyberinfrastructure Laboratory

Associate Professor, Computer Science Department

Associate Professor, PhD Program, GCCIS

Rochester Institute of Technology, NY

*Jan. 2000 – Jul. 2007:* Computation Institute. Fellow, Computation Institute, Chicago, IL,

University of Chicago and Argonne National Laboratory.

*Nov. 2004 - Jan. 2005:*  Department of Computer Science and Engineering, Denton, TX,

Adjunct Professor, University of North Texas.

*Nov. 1998 - Apr. 2002:*  Argonne National Laboratory, Argonne, IL. Assistant computer scientist,

Mathematics and Computer Science Division.

*Jan. 2002 - Dec. 2002:*  Illinois Institute of Technology. Visiting professor/Guest Lecturer,

Computer Science Department of the Illinois Institute of Technology.

*Nov. 1996 - Nov. 1998:*  Argonne National Laboratory, Argonne, IL. Postdoctoral researcher,

Mathematics and Computer Science Division.

*Jun. 1994 - Jan. 1995:*  NASA Goddard Space Flight Center, Greenbelt, MD, under contract

with the University Research Space Agency (USRA). Research assistant.

*Feb. 1987 - Sept. 1990:*  German National Research Center for Information Technology

(GMD) (now Frauenhofer Gesellschaft), Bonn. Research assistant.

# COPYRIGHTS

1. **Copyright of the LDAP Browser/Editor**, Gregor von Laszewski and Jarek Gawor, August 1999.

# GRANTS

1. *NSF:* https://www.nsf.gov/awardsearch/images/common/x.gifco-PI Gregor von Laszewski, **XD Metrics Service (XMS), Jul. 2015 – Jun. 2020, #1445806** , [*https://www.nsf.gov/awardsearch/showAward?AWD\_ID=1445806*](https://www.nsf.gov/awardsearch/showAward?AWD_ID=1445806)***, $750K Total to G. von Laszewski***
2. *XPS: FULL: DSD: Collaborative Research: Rapid Prototyping HPC Environment for Deep Learning, Geoffrey Fox gcf@indiana.edu (PI), Judy Qiu (Co-PI), Gregor von Laszewski (Co-PI), $315,000.00*
3. *NSF:* co-PI Gregor von Laszewski, CSR: An Analytic Approach to Quantifying Availability (AQUA) for Cloud Resource Provisioning and Allocation #1409809/1409256, $100K total to G. von Laszewski.
4. *NSF:* co-PI Gregor von Laszewski, XD TAS, with University of Buffalo, $750K total to G. von Laszewski, 9/2009 – 9/2015, *http://www.nsf.gov/awardsearch/showAward?AWD\_ID=1025159*
5. **NSF: co-PI Gregor von Laszewski, XPS: FULL: DSD: Collaborative Research: Rapid Prototyping HPC Environment for Deep Learning, $315K total.** *http://www.nsf.gov/awardsearch/showAward?AWD\_ID=***#1439007**
6. *NSF:* Gregor von Laszewski, Gregor von Laszewski, PI at Indiana University, Collaborative Research: DDDAS-TMRP: An Adaptive Cyberinfrastructure for Threat Management in Urban Water Distribution Systems, FY2009-2010, $183K
7. *NSF:* Gregor von Laszewski, OGCE, subcontract with Indiana University, $216K 9/1/2007 – 8/31/2010
8. *Microsoft:* Gregor von Laszewski, Donation of a 40 node cluster.
9. *Microsoft:* Gregor von Laszewski, PI. What to teach in advanced Cyberinfrastructure. Aug. 2008, $5K. Summer 2008
10. *Healthcare:* Gregor von Laszewski, PI at RIT and Technical Director of the Emergency Directory Service, Development of an Emergency Directory Service. Subcontract with STEP of a grant funded through GRRHIO via the NYSDOH. Nov 2008 – Aug 2010, $130K. Jan.2009 – Aug. 2010. Transitioned in Aug 2009 to RIT as moving the grant was not possible.
11. *DOE:* Gregor von Laszewski, PI, LDRD On demand calculation of Advanced Photon Source Data, Awarded, Oct. 06, 2006-2007, $300K.
12. *DOE:* Gregor von Laszewski, PI at Argonne National Laboratory SBIR on Insightful Workflows, Awarded. Sep. 06, $30K
13. *NSF:* Gregor von Laszewski, PI at University of Chicago, Collaborative Research: DDDAS-TMRP: An Adaptive Cyberinfrastructure for Threat Management in Urban Water Distribution Systems, University of Chicago, FY2006-FY2008, $52K, ANI0540076
14. *DOE:* Al Wagner, Branko Ruscic, and Gregor von Laszewski. Active Thermo Chemical Tables as part of the DOE SciDAC Collaboratory for Multiscale Chemical Science, $600K, Sept. 2004 Jun. 2006.
15. *NSF:* David Angulo and Gregor von Laszewski. REU Site: An Interdisciplinary REU Site for Bioinformatics and Grids, CNS0353989, $260K, FY2004 - FY2006.
16. *NSF:* Gregor von Laszewski. Collaborative Research: Grid Portal Middleware, ANI0330545, NMI: $393K, 1 Sep. 2003 - Sep. 2006.
17. *DOE:* Gregor von Laszewski and Keith Jackson. Commodity Grid Kits, Enabling Middleware Gregor von Laszewski for Designing Science Applications to enable Grid workflows. http://www.cogkits.org, $500K, Sep. - 2004 Sep. 2006.
18. *DOE:* Gregor von Laszewski and Keith Jackson. Commodity Grid Kits, Enabling Middleware for Designing Science Applications. http://www.cogkits.org, $750K, Sep. 2002 - Sep. 2004.
19. *NSF:* Gregor von Laszewski. Java CoG Kit Technologies, NSF Grant ACI9619019, $245K, FY2002 - FY204.
20. *Microsoft:* Gregor von Laszewski. Microsoft Equipment Donation, $5K, FY2003.
21. *Microsoft:* Gregor von Laszewski. Microsoft Software Donation: MSDN Subscription, FY1992- FY2006.
22. *DOE:* Al Wagner, Brank Ruscic, and Gregor von Laszewski. Active Thermo Chemical Tables as part of the DOE MICS Collaboratory for Multiscale Chemical Science, $900K, Sept. 2001 Sept. 2003.
23. *DOE:* Randy Brameley, Rick McMullan, John Hoffman, and Gregor von Laszewski. NGIA Gridbased Collaboratory for RealTime Data Acquisition IU/ANL, FWP 56890, $300K, FY1999.

# PUBLICATIONS AND PRESENTATIONS s

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| --- | --- | --- |
| [Citations](../..//publications.) | 10974 |  |
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## Proceedings

1. **Proceedings of the 2012 Workshop on Cloud Services, Federation, and the 8th Open Cirrus Summit.** R. Grossman, M Kozuch, G. v. Laszewski, R. McGeer, D. Milojicic. 2012. ACM, New York, NY, USA. DOI: https://dl.acm.org/citation.cfm?id=2378975
2. **Recent Research Advances in e-Science**, Xiaoyu Yang, Lizhe Wang, Gregor von Laszewski:. Cluster Computing (CLUSTER) 12(4):353-356 (2009)
3. **Proceedings of GCE07 at SC07**, Gregor von Laszewski, Editor.
4. **Proceedings of GCE06 at SC06**, Gregor von Laszewski, Chair, Editor.

## Online Proceedings and Standards Documents

1. **NIST Big Data Interoperability Framework: Volume 8, Reference Architecture Interfaces**, updated, Wo Chang, Gregor von Laszewski, and NIST Big Data Public Working Group: Volume 8. NIST technical report NIST SP 1500-9r1 June 2018.  
   URL: https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.1500-9r1.pdf.
2. **NIST Big Data Interoperability Framework, Vol. 8. Reference Architecture Interface,** Gregor von Laszewski, Wo Chang, Fugang Wang, Badi Abdhul Wahid, Geoffrey C. Fox, Pratik Thakkar, Alicia Mara Zuniga-Alvarado, Robert C. Whetsel, Jun. 2017, https://laszewski.github.io/papers/NIST.SP.1500-8-draft.pdf
3. **Handbook of Clouds and Big Data, Theory and Practice,** Gregor von Laszewski Geoffrey C. Fox Judy Qiu, Feb. 2018, Indiana University, https://tinyurl.com/vonLaszewski-handbook
4. **Use Cases in Big Data Software and Analytics Vol. 1,** Gregor von Laszewski, Fall 2017, Indiana University, https://tinyurl.com/cloudmesh/vonLaszewski-i523-v1.pdf
5. **Use Cases in Big Data Software and Analytics Vol. 2,** Gregor von Laszewski, Fall 2017, Indiana University, https://tinyurl.com/cloudmesh/vonLaszewski-i523-v2.pdf
6. **Use Cases in Big Data Software and Analytics Vol. 3,** Gregor von Laszewski, Fall 2017, Indiana University, https://tinyurl.com/vonLaszewski-projects-v3
7. **(Draft) Big Data Software Vol. 4.,** Gregor von Laszewski, Spring 2017, Indiana University, https://github. com/cloudmesh/sp17-i524/blob/master/paper1/proceedings.pdf
8. **(Draft) Big Data Software Vol. 5.,** Gregor von Laszewski, Spring 2017, Indiana University, https://github. com/cloudmesh/sp17-i524/blob/master/paper2/proceedings.pdf
9. **(Draft) Big Data Projects, Vol. 6.,** , Indiana University, University, https://github.com/ cloudmesh/sp17-i524/blob/master/project/projects.pdf

## Class Books and Proceedings

1. von Laszewski, Gregor, **Cloud Computing**, Indiana University, 2020, Online Book, Bloomington IN, U.S.A. Feb, https://laszewski.github.io/book/cloud
2. G. C. Fox andvon Laszewski, Gregor, **Big Data Applications and Analytics**, 2020, Online Book, Bloomington IN, U.S.A. Feb, https://laszewski.github.io/book/big-data
3. Intelligent Systems Engineering, https://laszewski.github.io/book/222/
4. Linux for Cloud Computing 2020-02, https://laszewski.github.io/book/linux/
5. Python for Cloud Computing2020-02, https://laszewski.github.io/book/python
6. **Big Data Algorithms and Applications**. Geoffrey Fox and Gregor von Laszewski, as epub or PDF Class Book Fall 2018.   
   URL: http://dsc.soic.indiana.edu/publications/E534-bigdata-applicationJan10-2019.epub
7. **Technology Snapshots Volume 1**, Gregor von Laszewski Editor , Spring 2017 Intelligent Systems Engineering E616 Student Reports printed August 10 2018.   
   URL: http://dsc.soic.indiana.edu/publications/E616Papers\_Vol1.pdf
8. **Technology Snapshots Volume 2**, Gregor von Laszewski Editor , Spring 2017 Intelligent Systems Engineering E616 Student Reports printed August 10 2018.   
   URL: http://dsc.soic.indiana.edu/publications/E616Papers\_Vol2.pdf

## Book Chapters

1. **Spidal Collaboration:** Arizona State (Oliver Beckstein), Indiana (Geoffrey Fox, Judy Qiu, David Crandall, Gregor von Laszewski), Kansas (John Paden), Rutgers (Shantenu Jha), Stony Brook (Fusheng Wang), University of Virginia (Madhav Marathe, Anil Vullikanti) and Utah (Thomas Cheatham; "Contributions to High-Performance Big Data Computing", Technical Report September 30, 2018 with June 21, 2019 Update. Published as a chapter in “Future Trends of HPC in a Disruptive Scenario” Editors: Grandinetti, L., Joubert, G.R., Michielsen, K., Mirtaheri, S.L., Taufer, M., Yokota, R., IOS Press Volume 34 of Advances in Parallel Computing, ISBN print 978-1-61499-998-0, September 2019. URL: http://dsc.soic.indiana.edu/publications/FormattedSPIDALPaperJune2019.pdf
2. **The FutureGrid Testbed for Big Data**, G. von Laszewski and G. C. Fox, in *Cloud Computing for Data-Intensive Applications*, X. Li and J. Qiu, Eds. New York, NY: Springer New York, 2014, pp. 27–59.
3. **FutureGrid - a reconfigurable testbed for Cloud, HPC and Grid Computing.** Geoffrey C. Fox and von Laszewski, Gregor and Javier Diaz and Kate Keahey and Jose Fortes and Renato Figueiredo and Shava Smallen and Warren Smith and Andrew Grimshaw. In Contemporary HPC Architectures", 2013.
4. **Providing a Green Framework for Cloud Data Centers.** Andrew J Younge, Gregor Von Laszewski, Lizhe Wang, Geoffrey C Fox in Handbook on Energy Aware and Green Computing (2011), pages 923-948, Chapman and Hall/CRC 2012, ISBN 978-1-4665-0116-4
5. **Towards on Demand IT Service Deployment in Internet Policies and Issues**. Volume 7, Jai Dayal, Casey Rathbone, Lizhe Wang, Gregor von Laszewski, pp.249-262, 2011 - 2nd quarter ISBN 978-1-61668-745-8.
6. **GreenIT Service Level Agreements**, In Grids and Service-Oriented Architectures for Service Level Agreements, 2010, pp 77-88
7. **Java CoG Kit Workflow,** Gregor von Laszewski, Mihael Hategan, and Deepti In Taylor, I.J., Deelman, E., Gannon, D.B. and Shields, M. eds. Workflows for Science, 2007, 340-356. DOI 10.1007/978-1-4419-7320-7\_8
8. **Work Coordination for Grid Computing** in Grid Technologies, Editor: M.P. Bekakos, G.A. Gravvanis, and H.R.Arabnia, Wit, 2006.
9. **Middleware for Communications** in Grid Middleware, Gregor von Laszewski and Kaizar Amin , pages 109-130. Wiley, 2004.
10. **Multiagent Systems, Artificial Societies, and Simulated Organizations, Quality of Service Based Grid Communities** in Extending Web Services Technologies: The Use of MultiAgent Approaches. Omer Rana, Asif Akram, Rashid Al Ali, David Walker, Gregor von Laszewski, and Kaizar Amin. Springer, 2005.
11. **Gestalt of the Grid** in Tools and Environments for Parallel and Distributed Computing, Gregor von Laszewski and Patrick Wagstrom, pages 149-187. Wiley, 2004.
12. **Commodity Grid Kits Middleware for Building Grid Computing Environments** in Grid Computing: Making the Global Infrastructure a Reality, Gregor von Laszewski, Jarek Gawor, Sriram Krishnan, and Keith Jackson, pages 639-656. Communications Networking and Distributed Systems. Wiley, 2003.
13. **Creating and Managing Grid Services** in Grid Computing: A Practical Guide to Technology and Applications, Gregor von Laszewski, Jarek Gawor, Sriram Krishnan, and Keith Jackson, pages 189-223. Charles River Media, Hingham, MA, 2003.
14. **QuasiRealtime Microtomography Experiments at Photon Sources** in Sourcebook of Parallel Computing, Gregor von Laszewski, Mei Hui Su, Joseph Insley, Ian Foster, and Carl Kesselman, pages 258-265. Morgan Kaufman Publishers, New York, 2003.
15. **Making LargeScale Telemedicine Work: A Computational Infrastructure for Telemedicine** in Advanced Infrastructure for Future Healthcare, volume 79 of Studies in Health Technology and Informatics, Gregor von Laszewski, Ian Foster, and George Thiruvathukal, pages 195-213. IOS Press, 2000.

## Referred Journal Articles

1. **AICov: An Integrative Deep Learning Framework for COVID-19 Forecasting with Population Covariates**, Geoffrey C. Fox, Gregor von Laszewski, Fugang Wang, Saumyadipta Pyne,  Journal of Data Science (2021), 1-21, DOI 10.6339/21-JDS1007
2. **Comprehensive, open-source resource usage measurement and analysis for HPC systems.** James C. Browne, Robert L. DeLeon, Abani K. Patra, William L. Barth, John Hammond, Matthew D. Jones, Thomas R. Furlani, Barry I. Schneider, Steven M. Gallo, Amin Ghadersohi, Ryan J. Gentner, Jeffrey T. Palmer, Nikolay Simakov, Martins Innus, Andrew E. Bruno, Joseph P. White, Cynthia D. Cornelius, Thomas Yearke, Kyle Marcus, Gregor Laszewski, and Fugang Wang. 2014. Concurr. Comput. : Pract. Exper. 26, 13 (September 2014), 2191-2209. DOI=http://dx.doi.org/10.1002/cpe.3245
3. **Performance Metrics and Auditing Framework Using Application Kernels for High- Performance Computer Systems**, Thomas R. Furlani, Matthew D. Jones, Steven M. Gallo, Andrew E. Bruno, Charng-Da Lu, Amin Ghadersohi, Ryan J. Gentner, Abani K. Patra, Robert L. DeLeon, Gregor von Laszewski, Fugang Wang, Ann Zimmerman, *Concurrency Experience and Practice*, 25(7): 918-931 (2013). DOI: https://doi.org/10.1002/cpe.2871
4. **On-demand Service Hosting on Production Grid Infrastructures**, Lizhe Wang, Tobias Kurze, Jie Tao, Marcel Kunze, Gregor von Laszewski, The Journal of Supercomputing 66(3): 1178-1193 (2013). DOI: https://doi.org/10.1007/s11227-011-0666-5
5. **eMOLST: a Documentation Flow for Distributed Health Informatics.** Gregor von Laszewski, Jai Dayal, Lizhe Wang Concurrency and Computation: Practice and Experience 23(16):1857-1867 (2011). DOI: ttps://doi.org/10.1002/cpe.1745
6. **Towards Building a Cloud for Scientific Applications**: Lizhe Wang, Marcel Kunze, Jie Tao, Gregor von Laszewski. Advances in Engineering Software (AES) 42(9):714-722 (2011).  
   DOI: https://doi.org/10.1016/j.advengsoft.2011.05.007
7. **Task Scheduling with ANN-Based Temperature Prediction in a Data Center: A Simulation-Based Study.** Lizhe Wang, Gregor von Laszewski, Fang Huang, Jai Dayal, Tom Frulani, Geoffrey Fox. Eng. Comput. (Lond.) (EWC) 27(4):381-391 (2011)
8. **Provide Virtual Machine Information for Grid Computing**: Lizhe Wang, Gregor von Laszewski, Dan Chen, Jie Tao, Marcel Kunze. IEEE Transactions on Systems, Man, and Cybernetics, Part A (TSMC) 40(6):1362-1374 (2010)
9. **Multicores in Cloud Computing: Research Challenges for Applications**: Lizhe Wang, Jie Tao, Gregor von Laszewski, Holger Marten. JCP 5(6):958-964 (2010). DOI: 10.4304/jcp.5.6.958-964
10. **Cloud Computing: a Perspective Study**: Lizhe Wang, Gregor von Laszewski, Andrew J. Younge, Xi He, Marcel Kunze, Jie Tao, Cheng Fu. New Generation Comput. (NGC) 28(2):137-146 (2010). DOI: https://doi.org/10.1007/s00354-008-0081-5
11. **Provide Virtual Distributed Environments for Grid Computing on Deman**d. Lizhe Wang, Gregor von Laszewski, Marcel Kunze, Jie Tao, Jai Dayal. Advances in Engineering Software (AES) 41(2):213-219 (2010)
12. **Virtual Data System on Distributed Virtual Machines in Computational Grids.** Lizhe Wang, Gregor von Laszewski, Jie Tao, Marcel Kunze. IJAHUC 6(4):194-204 (2010)
13. **Grid Virtualization Engine: Design, Implementation, and Evaluation**: Lizhe Wang, Gregor von Laszewski, Jie Tao, Marcel Kunze. IEEE Systems Journal (SJ) 3(4):477-488 (2009)
14. **Portal-Based Knowledge Environment for Collaboraive Science**, K. Schuchardt, C. Pancerella, L. A. Rahn, B. Didier, D. Kodeboyina, D. Leahy, J. D. Myers, O. O. Oluwole, W. Pitz, B. Ruscic, J. Song, G. von Laszewski, and C. Yang. Concurrency Computat.: Pract. Exper. 19 (12), 1703-1716 (2007)
15. **Java CoG Kit Workflow Concepts**, Gregor von Laszewski and Mihael Hategan, in Journal of Grid Computing. Jan. 2006. http://dx.doi.org/10.1007/s10723-005-9013-5
16. **SAGA: A Simple API for Grid Applications.** High-level application programming on the Grid. Tom Goodale, Shantenu Jha, Hartmut Kaiser, Thilo Kielmann, Pascal Kleijer, Gregor von Laszewski, Craig Lee, Andre Merzky, Hrabri Rajic, John Shalf, Computational Methods in Science and Technology, **12(1)**, 7-20 (2006)
17. **The Grid-Idea and Its Evolution**, Gregor von Laszewski, Journal of Information Technology, Volume 47, Issue 6, 2005, pages 319-329, Oldenburg. doi: 10.1524/itit.2005.47.6.319
18. **The Open Grid Computing Environments Collaboration: Portlets and Services for Science Gateways** Jay Alameda, Marcus Christie, Geoffrey Fox, Joe Futrelle, Dennis Gannon, Mihael Hategan, Gregor von Laszewsk, Mehmet A. Nacar, Marlon Pierce, Eric Roberts, Charles Severance, and Mary Thomas, Concurrency and Computation: Practice and Experience 19(6): 921-942 (2007).
19. **A Collaborative Informatics Infrastructure for Multi-Scale Science** James D. Myers, Thomas C. Allison, Sandra Bittner, Brett Didier, Michael Frenklach, William H. Green Jr., Yen-Ling Ho, John Hewson, Wendy Koegler, Carina Lansing, David Leahy, Michael Lee, Renata McCoy, Michael Minkoff, Sandeep Nijsure, Gregor von Laszewski, David Montoya, Luwi Oluwole, Carmen Pancerella Reinhardt Pinzon, William Pitz, Larry A. Rahn, Branko Ruscic, Karen Schuchardt, Eric Stephan, A. Wagner, Theresa Windus and Christine Yang, Cluster Computing, Volume 8, Number 4, October 2005, Pages 243 - 253, Springer, DOI: 10.1007/s10586-005-4092-4, http://dx.doi.org/10.1007/s10586-005-4092-4
20. **Grid Portal Architectures for Scientific Applications**, M. Thomas, J Burruss, L Cinquini, G Fox, D. Gannon, l Glilbert, G. von Laszewski, K. Jackson, D. Middleton, R. Moore, M. Pierce, B. Plale, A. Rajasekar, R. Regno, E. Roberts, D. Schissel, A. Seth, and W. Schroeder, Journal of Physics, 16:596-600, 2005.
21. **Active thermochemical tables: Thermochemistry for the 21st century**, Branko Ruscic, Reinhardt E. Pinzon, Gregor von Laszewski, Deepti Kodeboyina, Alexander Burcat, David Leahy, David Montoya,, and Albert F. Wagner, Journal of Physics, 16:561-570, 2005.
22. **Introduction to active thermochemical tables: Several key enthalpies of formation revisited**, Branko Ruscic, Reinhardt E. Pinzon, Melita L. Morton, Gregor von Laszevski, Sandra J. Bittner, Sandeep G. Nijsure, Kaizar A. Amin, Michael Minkoff, and Albert F. Wagner. J. Phys. Chem. A, 108(45):9979-9997, 2004. DOI: 10.1021/jp047912y.
23. **A Portal for Visualizing Grid Usage**, Gregor von Laszewski, Jonathan DiCarlo, Bill Allcock, Concurrency and Computation: Practice and Experience 19(12): 1683-1692 (2007)
24. **An Abstraction Model for a Grid Execution Framework**, Kaizar Amin, Gregor von Laszewski, Rashid Al Ali, Omer Rana, and David Walker, Journal of Systems Architecture, Volume 52, Issue 2 , February 2006, Pages 73-87, Parallel, Distributed and Network-based Processing. DOI doi:10.1016/j.sysarc.2004.10.007
25. **A Framework for Building Scientific Knowledge Grids Applied to Thermochemical Tables**. Gregor von Laszewski, Branko Ruscic, Kaizar Amin, Patrick Wagstrom, Sriram Krishnan, and Sandeep Nijsure. The International Journal of High Performance Computing Applications, 17(4):431-447, Winter 2003.
26. **An Overview of Grid File Transfer Patterns and their Implementation in the Java CoG Kit**. Gregor von Laszewski, Jarek Gawor, Pawel Plaszczak, Mike Hategan, Kaizar Amin, Ravi Madduri, and Scott Gose. Journal of Neural Parallel and Scientific Computing, 12(3):329-352, September 2004. Special Issue on Grid Computing.
27. **Analysis and Provision of QoS for Distributed Grid Applications**. Rashid AlAli, Kaizar Amin, Gregor von Laszewski, Omer Rana, David Walker, Mihael Hategan, and Nester Zaluzec. Journal of Grid Computing, 2(2):163-182, June 2004.
28. **Toward Reputable Grids**. Gregor von Laszewski, Beulah Alunkal, and Ivana Veljkovic. Gregor von Laszewski Scalable Computing: Practice and Experience, Vol.6 No. 3, pages 95-106 2005.
29. **Features of the Java Commodity Grid Kit**. Gregor von Laszewski, Jarek Gawor, Peter Lane, Nell Rehn, Mike Russell, and Keith Jackson. Concurrency and Computation: Practice and Experience, 14:1045-1055, 2002.
30. **A Perl Commodity Grid Kit**. Mary Thomas, Steve Mock, and Gregor von Laszewski. Concurrency and Computation: Practice and Experience, 14:1085-1095, 2002.
31. **A CORBA Commodity Grid Kit**. Manish Parashar, Gregor von Laszewski, Snigdha Verma, Jarek Gawor, and Kate Keahey. Concurrency and Computation: Practice and Experience, 14:1057-1074, 2002.
32. **QoS Guided MinMin Heuristic for Grid Task Scheduling**. XiaoShan He, XianHe Sun, and Gregor von Laszewski. Journal of Computer Science and Technology, 18(4):442-451, July 2003.
33. **Community Software Development with the Astrophysics Simulation Collaboratory**. Gregor von Laszewski, Michael Russell, Ian Foster, John Shalf, Gabrielle Allen, Greg Daues, Jason Novotny, and Edward Seidel. Concurrency and Computation: Practice and Experience, 14:1289-1301, 2002
34. **MultiParadigm Communications in Java for Grid Computing**. Vladimir Getov, Gregor von Laszewski, Michael Philippsen, and Ian Foster. Communications of ACM, 44(10):119-125, October 2001.
35. **A Java Commodity Grid Kit**. Gregor von Laszewski, Ian Foster, Jarek Gawor, and Peter Lane. Concurrency and Computation: Practice and Experience, 13(89):643- 662, 2001.
36. **A HighThroughput XRay Microtomography System at the Advanced Photon Source**. Yuxin Wang, Francesco De Carlo, Derrick Mancini, Ian McNulty, Brian Tieman, John Bresnahan, Ian Foster, Joseph Insley, Peter Lane, Gregor von Laszewski, Carl Kesselman, MeiHui Su, and Marcus Thiebaux. Review of Scientific Instruments, 72(4):2062-2068, April 2001.
37. **Using Computational Grid Capabilities to Enhance the Ability of an XRay Source for Structural Biology**. Gregor von Laszewski, Mary Westbrook, Ian Foster, Edwin Westbrook, and Craig Barnes. Cluster Computing, 3(3):187-199, 2000.
38. **Distance Visualization: Data Exploration on the Grid**. Ian Foster, Joeseph Insley, Gregor von Laszewski, Carl Kesselman, and Marcus Thiebaux. IEEE Computer, 14:36-41, December 1999.
39. **A Fault Detection Service for Wide Area Distributed Computations**. P. Stelling, C. DeMatteis, I. Foster, C. Kesselman, C. Lee, and G. von Laszewski. Cluster Computing, 2(2):117-128, 1999.
40. **A Loosely Coupled Metacomputer: Cooperating Job Submissions Across Multiple Supercomputing Sites**. Gregor von Laszewski. Concurrency, Experience, and Practice, 11(5):933-948, December 1999. The initial version of this paper was available in 1996.
41. **Planar G1 Hermite Interpolation with Spirals.** Foster I.; von Laszewski G.; Thiruvathukal G.K.; Toonen B.; Meek D.S.; Walton D.J. Computer Aided Geometric Design, Volume 15, Number 8, September 1998 , pp. 787-801(15), Elsevier
42. **A Computational Framework for Telemedicine**. Gregor von Laszewski, Ian Foster, George K. Thiruvathukal, and Brian Toonen. Journal of Future Generation Computer Systems, 14:10-123, 1998.
43. **Blocked LU Factorization on a Multiprocessor Computer**. Gregor von Laszewski, A. Gaber Mohamed, and Geoffrey C. Fox. Journal for Microcomputers in Civil Engineering, 8(1):45- 56, 1993.
44. **The Astrophysics Simulation Collaboratory: A Science Portal Enabling Community Software Development**. Michael Russell, Gabrielle Allen, Ian Foster, Ed Seidel, Jason Novotny, John Shalf, Gregor von Laszewski, and Greg Daues. Journal on Cluster Computing, 5(3):297-304, July 2002.

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6. **Grid Workflow - An Integrated Approach**. Gregor von Laszewski and Mike Hategan. Argonne National Laboratory, Argonne National Laboratory, 9700 S. Cass Ave., Argonne, IL 60440, 2005.
7. **Towards the Development of a Bioinformatics Grid Desktop**. Gregor von Laszewski, Matthew W. Bone, Ishrath Fatima, Mikhail Sosonkin, Robert Winch, Nithya N. Vijayakumar, Pankaj Sahasrabudhe, Kaizar Amin, Mihael Hategan, Jonathan DiCarlo, and David Angulo. Preprint ANL/MCS-ANL/MCS-P1189-0804, Mathematics and Computer Science Division, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439, U.S.A., August 2004. in partial fulfillment of the REU 2004 Site on Grid Computing and Bioinformatics. http://www.cogkit.org.
8. **Usage of LDAP in Globus**. G. von Laszewski and I. Foster. 1999. ftp://ftp.globus.org/pub/globus/papers/ldap\_in\_globus.pdf.
9. **The Java CoG Kit User Manual**. Gregor von Laszewski, Beulah Alunkal, Kaizar Amin, Jarek Gawor, Mihael Hategan, and Sandeep Nijsure. MCS Technical Memorandum ANL/MCS-TM-259, Argonne National Laboratory, March 14 2003.
10. **The Java CoG Kit User Manual, version 4.0**. Gregor von Laszewski. Mcs technical memorandum, Argonne National Laboratory, Mathematics and Computer Science Division, 9700 S. Cass Ave, Argonne, IL 60439, U.S.A., March 14 2004.
11. **GridAnt: White Paper**. Gregor von Laszewski, Kaizar Amin, Shawn Hampton, and Sandeep Nijsure. Technical report, Argonne National Laboratory, 31 July 2002.
12. **A UNICORE Globus Interoperability Layer**. David Snelling, Sven van den Berghe, Gregor von Laszewski, Philipp Wieder, Jon MacLaren, John Brooke, Denis Nicole, and Hans-Christian Hoppe. November 2001.
13. **Grid Portals: A Scientist's Access Point for Grid Services**. D. Gannon, G. Fox, M. Pierce, B. Plale, G. von Laszewski, C. Severance, J. Hardin, J. Alameda, M. Thomas, and J. Boisseau. Global Grid Fourum Working Draft, 19 September 2003. (Draft 1). http://forge.gridforum.org/projects/ggf-editor/document/GCE-Portal-working-draft/en/1/GCE-Portal-w
14. **GSFL: A Workflow Framework for Grid Services**. Sriram Krishnan, Patrick Wagstrom, and Gregor von Laszewski. In Preprint ANL/MCS-P980-0802, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439, U.S.A., 2002. http://www-unix.globus.org/cog/papers/gsfl-paper.pdf.
15. **GOSv3: A Data Definition Language for Grid Information Services**. G. von Laszewski, S. Fitzgerald, P. Vanderbilt, P. Lane, and B. Didier. Argonne National Lab and Pacific Northwest Lab, Grid ForumWorking Group Document GWD-GIS-011-11, June 2001. http://www-unix.mcs.anl.gov/gridforum/gis/reports/gos-v3/gis-wg-021-002.html.
16. **Usage of LDAP in Globus**. Gregor von Laszewski and Ian Foster. Web page.
17. **Defining Schemas for the Grid with GOS, the Grid Object Specification**. Gregor von Laszewski, Steve Fitzgerald, Brett Didier, and Karen Schuschardt. Gridforum Working Group Document GIS-WG 1, Argonne National Laboratory and Pacific Northwest Laboratory, September 1999. http://www.gridforum.org.
18. **A Genetic Algorithm for the Graph Partitioning Problem**. Gregor von Laszewski. Master's thesis, University of Bonn, Bonn, Germany, November 1990. (in German).
19. **A Parallel Data Assimilation System and its Implications on a Metacomputing**  **Environment**. Gregor von Laszewski. PhD thesis, Syracuse University, December 1996.   
    Online: https://surface.syr.edu/eecs\_etd/184/
20. **A Collection of Graph Partitioning Algorithms: Simulated Annealing, Simulated**  **Tempering, Kernighan Lin, Two Optimal, Graph Reduction, Bisection**. Gregor von Laszewski. Technical Report SCCS 477, Northeast Parallel Architectures Center at Syracuse University, April 1993.
21. **Application Benchmark Set for Fortran D and High Performance Fortran**. Gregor von Laszewski, Manish Parashar, A. Gaber Mohamed, Geoffrey C. Fox, Thomasz Haupt, N. T. Lin Kim Millsand Y. H. Lu, and N. K. Yeh. Technical Report SCCS 327, Northeast Parallel Architectures Center at Syracuse University, June 1992. (Rice University, CRPCTR92260).
22. **Proposal for the Gridforum Information ServiceWorking Group**. Gregor von Laszewski. Redondo Beach, CA., August 1999. http://www.gridforum.org".
23. **GGF GIS Working Group Charter**. Gregor von Laszewski and et al. Global Grid Forum Information Services Working Group, 2001.

## Selected Referred Posters

1. **Rain: Dynamically Provisioning Clouds within FutureGrid**, Fox, G. C., A. J. Younge, G. von Laszewski, A. Kulshrestha, and F. Wang, The International Conference for High Performance Computing, Networking, Storage and Analysis, New Orleans, LA, Nov 13-19 2010. Rain is a concept designed and developed by Gregor von Laszewski, Javier Diaz, and Fugang Wang.
2. **Dynamic Provisioned Experiments in FutureGrid**, Gregor von Laszewski, Geoffrey. C. Fox, and FutureGrid Team, , 2nd IEEE International Conference on Cloud Computing Technology and Science (CloudCom2010), Indianapolis, IN, Dec 1 2010.
3. **Microsoft Project for e-Science**, Gregor von Laszewski, Leor Dilmanian, Microsoft e-Science Workshop, Indiana University, Dec. 8, 2008.
4. **Grid Portal Architectures for Scientific Applications,** Thomas, M. P., J. Burruss, L. Cinquini, G. C. Fox, D. Gannon and L. Gilbert, G. von Laszewski, K. Jackson, D. Middleton and R. Moore, et al., DOI SciDAC Meeting 2005, San Francisco, Jun 26, 2005,
5. **Collaboratory for Multi-scale Chemical Science,** Thomas C. Allison, Sandra Bittner, Brett Didier, Michael Frenklach, William H. Green, Jr., Darrian Hale, Mihael F., Hategan-Marandiuc, Carina Lansing, Gregor von Laszewski, David Leahy, James D. Myers, Michael Minkoff, David Montoya and Luwi Oluwole, Carmen Pancerella, Reinhardt Pinzon, William Pitz, Larry Rahn, Jane Riese, Branko Ruscic, Karen Schuchardt, Albert F. Wagner, Theresa Windus, Christine Yang and Ginger Young, DOI SciDAC Meeting, Charleston, SC, March 22-24, 2004,
6. **Commodity Grid Kits,**  Gregor von Laszewski, Keith Jackson, DOI SciDAC Meeting (Poster), Charleston, SC, March 22-24, 2004
7. **Grid Programming Patterns with the Java CoG Kit 4**, Gregor von Laszewski, GlobusWorld, Boston, Massachusetts, 7-11 February 2005.
8. **Workflow support in the Java CoG Kit 4**, Gregor von Laszewski, Boston, Massachusetts, 7- 11 February 2005.
9. **The Next Generation of the Java CoG Kit (Version 4)**, Gregor von Laszewski, Kaizar Amin, Matt Bone, Mike Hategan, Panka j Sahasrabudhe, Mike Sosonkin and Robert Winch, Nithya Vijayakumar, and David Angulo, Supercomputing 2004, Pittsburgh, 6-12 November 2004. (Refereed Poster) Best poster award. http://www.sc-conference.org/sc2004.
10. **Karajan: A Grid Orchestration Framework**, Mihael Hategan, Gregor von Laszewski, and Kaizar Amin, Supercomputing 2004, Pittsburgh, 6-12 November 2004. (Refereed Poster). http://www.sc-conference.org/sc2004.
11. **HighLevel Grid Execution Patterns**, Kaizar Amin and Gregor von Laszewski, In 6th International Workshop on Distributed Computing, Calcutta, India, December 2004. Poster.
12. **An Adaptive Informatics Infrastructure Enabling Multiscale Chemical Science**, Thomas C. Allison, William Barber, Sandra Bittner, Brett Didier, Michael Frenklach, Jr. William H. Green, John Hewson, Wendy Koegler, Carina Lansing, Gregor von Laszewski, David Leahy, Michael Lee, James D. Myers, Renata McCoy, Michael Minkoff, David Montoya, Carmen Pancerella, Reinhardt Pinzon, William Pitz, Larry A. Rahn, Branko Ruscic, Karen Schuchardt, Eric Stephan, Al Wagner, Baoshan Wang, Theresa Windus, Lili Xu, and Christine Yang, Poster presentation at Supercomputing 2003, 18 November 2003.
13. **GSFL: A Workflow Framework for Grid Services**, Patrick Wagstrom, Sriram Krishnan, and Gregor von Laszewski, In SC2002, Baltimore, MD, 1116 November 2002. (Poster).
14. **A Grid Services Framework for Collaboratorive Applications**, Kaizar Amin, Sandeep Nijsure, and Gregor Laszewski, In SC2002, Baltimore, MD, 1116 November 2002. (Poster).
15. **GridAnt: Client Side Workflow Management in Grids (with application to Position Resolved Diffraction)**, Gregor von Laszewski, Nestor Zaluzec, Mihael Hategan, Kaizar Amin, Shawn Hampton, and Al Ross, In Midwest Software Engineering Conference, page 193, Chicago, June 5th 2003. DePaul University.
16. **Developing Scientific Portals through Portal Middleware (with application to Gnare, a portal to Genome Analysis Research Environment)**, Gregor von Laszewski, Natalia Maltsev, Dinanath Sulakhe, Sandeep Nijsure, Shashank Shankar, Mihael Hategan, Elizabeth Marland, Alex Rodrigez, Kaizar Amin, Beulah Alunkal, Veronika Nefedova, and Gong Xin Yu, In Midwest Software Engineering Conference, page 194, Chicago, 5 June 2003. DePaul University.
17. **Abstracting the Grid**, Kaizar Amin and Gregor von Laszewski, In Second Anual Young Scientist Day, Argonne, IL, 23 July 2003. Argonne National Laboratory.
18. **Collaborative Grid Services Framework**, Kaizar Amin, Sandeep Nijsure, and Gregor Laszewski, In GlobusWorld, San Diego, CA, 17 January 2003. (Poster).
19. **Java CoG Kit Workflow**, Gregor von Laszewski, Globus World, San Francisco, CA, January 2003.

## SELECTED Invited Talks and Presentations

1. **Data Analytics with the Big Data NIST Reference Architecture.** Gregor von Laszewski, IndyPy – PyData Indy 2019. Video URL: https://www.youtube.com/watch?v=-wSurPTxuXg&list=PLt4L3V8wVnF58ZFkBQur3vSWrliVI3WAr&index=6&t=0s
2. **BigData 2017 MIDAS and SPIDAL Tutorial** . Geoffrey Fox, David Crandall, Judy Qiu, Gregor Von Laszewski, Shantenu Jha, John Paden, Oliver Beckstein, Tom Cheatham, Madhav Marathe, Fusheng Wang, Bari Italy February 13-14 2017  
   URL: http://dsc.soic.indiana.edu/publications/SPIDALTutorialProgram-Feb2017.pdf
3. **Cloudmesh Virtual Cluster Management for Data Intensive Applications,** Gregor von Laszewski, DePy 2015 1st Annual Conference on Python applications in Data Analysis, Machine Learning, and Web, Chicago, Ill, May 29-30 2015. Video URL http://www.pyvideo.org/video/3539/cloudmesh-virtual-cluster-management-for-data-int
4. **Cloudmesh,** HPCS2014 Halifax, Nova Scotia, CA, June 25- 27, 2014
5. FutureGrid, OpenCirrus Meeting, Oct 2011, Gerorgia Tech
6. Panelist: Opportunities of Services Business in Cloud Age at Cloud2011, 7/8/2011
7. Green Computing, IUPUI, Indianapolis, IU Energy Conference, Aug 6-7, 2009.
8. Towards GreenIT, Indiana University, July, 2009.
9. Grids for Synchrotrons, ESRF Grenoble, http://www.esrf.eu/, Dec 8, 2008.
10. Cyberinfrastucture Research. 2008, University of Albany
11. Scientific Workflows. 2008, Research Computing and NYSGrid via Access Grid, Rochester Institute of Technology
12. Cyberinfrastucture Workflows. 2008, CCRG Rochester Institute of Technology
13. Cyberinfrastucture Research. 2007, IBM Raleigh
14. Grid Workflows, 2007, Georgia Tech
15. Grid Workflows, 2007, University of Buffalo
16. CoG Kits: an opportunity for Collaboration, October 2006, Southern Illinois University
17. The use of XML in Grids, September 2006, Loyola University Evolution of Grid Computing with education experiences, SC07 Educational Planning Workshop, July 27-30, Argonne
18. National Laboratory.
19. Active Thermochemical Table Infrastructure, CMCS Workshop, Urbana, IL, June 7-8, 2006.
20. Scientific Process Management, NIH, Washington DC, Feb. 3, 2006.
21. April 2005, Georgia Tech, Java CoG Kit
22. Grid Workflow with the Java CoG Kit 4. TACC, Austin, TX, 13 May 2005.
23. Grid Programming Patterns with the Java CoG Kit 4. GlobusWorld, Boston, Massachusetts, 7-11 February 2005.
24. Workflow support in the Java CoG Kit 4. Boston, Massachusetts, 7-11 February 2005.
25. Keynote: CoG Kit Abstractions. Workshop on Grid Application Programming Interfaces in conjunction with GGF12, Brussels, Belgium, 20 September 2004. (Keynote). http://www.cs.vu.nl/ggf/apps-rg/meetings/ggf12.html.
26. Java cog kit workflow abstractions. GGF Workshop Management Working Group, GGF11 The Eleventh Global Grid Forum, Honolulu, Hawaii USA, 6-10 June 2004. (Presentation).
27. GridAnt. GlobusWorld, San Francisco, 20 January 2004.
28. Grid computing. Illinois Institute of Technology, October 2004.
29. The State of Grid Computing in the U.S.A. In Grid Symposium of the Ministry of Science, Germany. Wissenschaftszentrum, Bonn, 28 November 2002. (Invited Talk).
30. The Science of Collaboratories Workshop Series The State of Collaboratory Tools and Technologies, Sponsored by the University of Michigan and the National Science Foundation. Ann Arbor, Michigan, 19-20 July 2001. (Invited Participant).
31. HPC Consortium Meeting, GridSIG, Sun Microsystems. Status of the Globus Project, Heidelberg, Germany, 19-20 June 2001. (Invited Talk). http://www.sun.com/productsnsolutions/edu/hpc/heidelberg.html.
32. The Use of Java in High Performance Computing. In EuroPar 2000, Munich, Germany, 30 August 2000. (Panelist).
33. Application Programming in the Grid. Europar2000, Munich, Germany, August 28 September 1 2000.
34. Unicore and Globus. Unicore Meeting, Juelich, Germany, Sept 2000.
35. Building Portals with Java. Computing Portals Workshop, San Francisco, CA, 78 December 2000.
36. Gregor von Laszeswki. Usng Java in Grids. In High Performance Computing and Java, number 284 in Seminar 341, Dagstuhl, Germany, 2025 August 2000. International Conference and Research Center for Computer Science. (Invited Talk)
37. Building Portals with CoG. Science Portals Workshop, Urbana, IL, 22-23 September 1999.
38. Information Services for the Common Component Architecture. Knoxville, TN, July 1999.
39. Application programming in the Grid. Aachen, Germany, September 1999.
40. Studying and Working in the U.S.A. Aachen, Germany, September 1999.
41. A Grid-based Computing Portal. Alliance Chemistry Portals Meeting, Urbana, IL, August 15 2000.
42. Using Globus and Java on Clusters and Grids. In International Workshop on Global and Cluster
43. Computing (WGCC2000), Tsukuba, Japan, 15-17 March 2000. (Invited Talk).
44. Panel on Commodity Technologies and Grid, ISCOPE 99, December 1999. (Panelist).
45. The Globus Grid Infrastructure. Julich, Germany, September 1999. (Invited Talk).
46. Dattor, Gridforum, and Computing Portals. Julich, Germany, September 1999. (Invited Talk).
47. Recent Development in the Globus Project. In 3rd HLRS Metacomputing Workshop, Stuttgart Germany, 6-7 June 2000. (Invited Talk).
48. JavaGrande Meeting at Supercomputing. Orlando, FL, November 1998. (Panelist).
49. Recent Development in the Globus Project. In 2nd Symposium on Multidisciplinary Environments And Applications, MAPINT ‚Äô98/MDICE Workshop, Dayton, Ohio USA, August 1998. Aeronautical Systems Center (ASC), Major Shared Resource Center (MSRC), and Wright Patterson AFB. (Invited Talk).
50. Reusable Components of Globus-J , October 1998. Workshop of Desktop Access to Remote Resources,
51. JavaGrande Forum and Argonne National Laboratory, Chicago, IL.
52. SC98 BoF: Java Grande. http://www.javagrande.org, Orlando, FL, November 1998. (Panelist).
53. Gregor von Laszewski, Mary L. Westbrook, Craig Barnes, and Ian Foster. Supercomputing Data Analysis with an Example on the APS CATs. In International Workshop on New Opportunities for Better User Group Software (NOBUGS). Argonne, IL, December 1997.
54. The Globus Project: A Metacomputing Toolkit for Multidisciplinary Applications. In 1st Symposiumon Multidisciplinary Environments and Applications, MAPINT '97/MDICE Workshop, Dayton, Ohio USA, August 1997. Aeronautical Systems Center (ASC), Major Shared Resource Center (MSRC), and Wright Patterson AFB. (Invited Talk).
55. Using the Globus Metacomputing Toolkit for Seamless Computing. Supercomputing Center at ECMWF, Reading, UK, December 1997. (Invited Talk).
56. Introduction to Java. Illinois Institute of Technology, May 1997.
57. Introduction to Genetic Algorithms. Argonne National Laboratory, Summer Program, July 1998.
58. Parallel Optimal Interpolation. NASA Goddard Space Flight Center, June 1996.

## Selected Seminars and Colloquia

1. Tutorial: FutureGrid TG11, 2011
2. Overview of FutureGrid, PTI, 2010.
3. JavaScript CoG Kit, Teragrid 2009.
4. Building CommoditInvited Talks}y Grids. In CHEF Workshop. University of Michigan, Ann Arbor, 1415 October 2002.
5. Grid Computing: A Collaborative Approach. In Collaborative and Distance Learning Technologies (CDLT) Day at U.S. Army Engineering Research and Development Center (ERDC), Vicksburg, MS, 29 October 2002. (Invited Talk).
6. Gregor von Laszewski, Nestor J. Zaluzec, and Xian He Sun. Computationally Mediated Experimental Science. The Illinois Institute of Technology Inter-professional Projects Program, IPRO305, http://webservices.iit.edu/ipro/, Fall 2002. A project oriented class.
7. Gregor von Laszewski and Xian He Sun. CS595: Grid and Ubiquitous Computing. Illinois Institute of Technology, Chicago, IL, Spring 2002. Course material, teaching, and project supervision.
8. Gregor von Laszewski. Java CoG Kit Tutorial at the Joint ACM Java Grande ISCOPE 2002 Conference. Seattle, Washington, 3 November 2002. http://www.globus.org/cog.
9. Gregor von Laszewski. The Importance of CoG Kits for Grid Users. Globus Retreat, Chicago, IL, 2001.
10. Gregor von Laszewski. The Java Cog Kit. Globus Retreat, Chicago, IL, 2001.
11. Global Grid Forum. Introduction to the Global Grid Forum Information Services Working Group, Amsterdam, The Netherlands, 2 March 2001.
12. IPDPS 2001. Grid Computing, Globus, and Java Interface to the Grid, San Francisco, CA, 27 April 2001. http://www.ipdps.org/ipdps2001/2001\_tutorial4.html.
13. Vladimir Getov, Jose E. Moreira, Roldan Pozo, and Gregor von Laszewski. Java for High Performance Computing. In Java One Conference and Java Grande Conference, San Fransisco, CA, 2 June 2001.
14. International Symposium in High Performance and Distributed Computing. High Performance and Grid Programming in Java and Python, San Francisco, CA, 6 August 2001. Gregor von Laszewski and Steve Fitzgerald. The Globus Grid Programming Toolkit. Tutorial at SC99, Portland, OR, 1319 November 1999.
15. Gregor von Laszewski and Steven Fitzgerald. The Globus Grid Programming Toolkit. The 7th IEEE Symposium on High Performance Distributed Computing, July 1998.
16. Introduction to the Metacomputing Toolkit. High Performance Computing Tutorial, The National Center for Supercomputing Applications, University of Illinois at Urbana Champaign, April 1998.
17. Gregor von Laszewski, Mary L. Westbrook, Craig Barnes, and Ian Foster. Supercomputing Data Analysis with an Example on the APS CATs. In International Workshop on New Opportunities for Better User Group Software (NOBUGS). Argonne, IL, December 1997. http://www.aps.anl.gov/xfd/bcda/nobugs.
18. Using LDAP in the real world. De Paul University, Chicago, IL, January 2000.
19. Gregor von Laszewski. The Java CoG Kit. Globus Retreat, Pittsburgh, PA, July 30 August 1 2000

# Selected Community Activities

## Selected Project and Proposal Review Panel Activities

1. STEM: Taught Programming to a team of elementary school children 5th and 6th graders that won 2nd price in the regional FLL competition 2015 (remarkable due to the ages while the winning team was high school)
2. Reviewer for Fonds National de la Recherche – Luxembourg, 2014
3. Member of the International Advisory Board of Cybera, Alberta, CA, 2008 - present.
4. Member of the Unicore Review Committee of the German Ministry of Science, Germany. Wissenschaftszentrum, Bonn, Nov. 27 2000-2002.
5. Review Committee for The Engineering and Physical Sciences Research Council (EPSRC), UK. http://www.epsrc.ac.uk/.
6. NSF Review Panels, 2004. 2 panels. http://nsf.gov/.
7. DOE proposal reviews, 2002, 2003, 2004, 2005, 2006. http://www.sc.doe.gov/ascr/mics/.
8. GCE08 Steering Committee

## Selected Passed Conference and Workshop Committees

**Chair and Steering Committee**

1. 2016 IEEE International Conference on Cloud Engineering Workshop (IC2EW),   
   doi: 10.1109/IC2EW.2016.66
2. CCGrid2015, CCGrid2016, Committee Member
3. CloudCom 2014, Track Chair
4. ICCCT-2014, 5th International Conference on Computer and Communication Technology, Reviewer
5. CAC 2013, Track Chair
6. Workshop on Federated Clouds 2012 and 8th OpenCirrus Summit, (Co-Chair, Program Co-chair, Proceedings editor)
7. Dagstuhl Seminar Mar 2009 (Co-Chair).
8. GCE08 in conjunction with SC08, co-Chair
9. GCE07 Steering Committee
10. Grid 2007, Program vice chair, Austin, TX collocated with Cluster 2007, Sept 17 - 21 in 2007
11. GCE06 in conjunction with SC06, Chair
12. Minisymposium on Grid Workflow, Globus World, San Francisco, 20 January 2004. Chair.
13. Minisymposium on Grid Workflow. Gregor von Laszewski and Ewa Delman. San Francisco,
14. CA, 2023 January 2003. Chair. http://www.globus.org/cog.
15. Global Grid Forum Grid Information Services Working Group/Area Chair. 2001 - 2002.
16. Grid Forum Grid Information Services Working Group/Area Chair. 2000 - 2001.
17. GIS Working Group. GGF 2, Vienna, VA, July 1518 2001. Chair.
18. GIS Working Group. GGF 1, Amsterdam, NL, March 29 2001. Chair.
19. Joint ACM Java Grande ISCOPE 2001 Conference. Stanford University, California, http://www.inria.fr/JGI2001, June 24 2001. Committee and Tutorials Chair.
20. Second Workshop on Desktop Access to Remote Resources. Sandia National Laboratory, Albuquerque, NM, 15-16 February 1999. Steering Committee.
21. First Workshop Desktop Access to Remote Resources, 89th October 1998. Steering Committee and Chair.
22. Computing Portals Workshop and 3rd International Workshop on Desktop Access to Remote Resources. Together with Computing Portals Working Group (Datorr), Java Grande Forum, and The 3rd International Symposium on Computing in Object-Oriented Parallel Environments, San Francisco, California, U.S.A., http://www.computingportals.org and http://www.acl.lanl.gov/iscope99/, 7 December 1999. Steering Committee and Chair.
23. IEEE Task Force on Cluster Computing. 1998-2000 http://ieeetfcc.org. Advisory Committee.
24. SC98 BoF: Desktop Access to Remote Resources. Gregor von Laszewski. Orlando, FL, http://www.computingportals.org, November 1998.
25. Organizer of the BoF. Supercomputing SC93. Portland, OR, http://www.supercomp.org, Nov. 15-19 1993. Best Student Paper Selection Committee.

**Selected Committee Review Activities**

1. Committee Co-chair CloudCom2012 in the topic Cloud Computing on HPC, 2014.
2. 4th Workshop on Scientific Cloud Computing (ScienceCloud) 2013 June 17th, 2013, New York City, NY, USA (Committee).
3. IEEE CloudCom 2012, 2011, 2010 (Committee).
4. ITSM2012 (Committee)
5. PPAM2011 (Committee).
6. TerraGrid 2010 (Awards Committee)
7. FGMMS2010 (Committee).
8. CCGrid 2010, 2008, 2007, 2006, 2005 (Committee) in conjunction with SC’.
9. GCE, 2010, 2009, 2005 (Committee).
10. ICPADS, 2010 (Committee).
11. IGCC 2010 (Committee).
12. IPDPS 2009, 2008 (Committee).
13. Grid 2009, 2007 (Committee).
14. Cluster 2009
15. TeraGrid 2009 (Student Mentor).
16. GCE08 (Committee & co-Chair).
17. Euro-Par 2008 (Committee).
18. ICPADS'2007. 13th International Conference on Parallel and Distributed Systems, December 5 - 7, 2007 at National Tsing Hua University , Hsinchu , Taiwan. (Committee).
19. High Performance Computing Symposium (HPC 2007) Norfolk, VA (Committee).
20. CCGrid2007 (Committee).
21. HPC 2007: High Performance Computing Symposium, http://hosting.cs.vt.edu/hpc2007/, March 25-29, 2007 (Committee)
22. 2-nd IEEE International Conference on e-Science and Grid Computing, Dec. 4- 6, 2006, Amsterdam, Netherlands, http://www.escience-meeting.org/eScience2006/ (Committee)
23. IEEE 2006 International Symposium on Modern Computing, 3-6 October 2006, Sofia, Bulgaria, http://www.atanasoff.org/ismc06 (Committee)
24. Grid2006, http://personals.ac.upc.edu/rosab/grid2006/ (Committee)
25. ICCGI06 International Multi-Conference on Computing in the Global Information Technology, March 15, August 1-3, 2006, Bucharest, Romania, http://www.iaria.org/conferences/ICCGI06.html, (Advisory Committee)
26. Supercomputing, SC06, SC03, SC00, SC98, SC97, SC95.
27. PPAM 2005, Sixth International Conference on Parallel Processing and Applied Mathematics. http://ppam.pcz.pl/call.htm.
28. IPDPS, 19th IEEE International Parallel and Distributed Processing Symposium. Denver, Colorado, 48 April 2005.
29. EuroPar 2006, 2005
30. Coordination Abstractions for Worldwide Computing, Software Technology Mini-Track,
31. HICSS-38, Jan. 2005, http://www.hicss.hawaii.edu/
32. Third International Symposium on Automated Technology for Verification and Analysis, Taipei, Taiwan, 4-7 October 2005.
33. International Conference on eScience and Grid Technologies 2005. Melbourne, Australia, http://www.gridbus.org/escience, 5-8 December 2005.
34. 6th IEEE/ACM International Workshop on Grid Computing (Grid 2005) held in conjunction with SuperComputing 2004. Seattle, WA, http://pat.jpl.nasa.gov/public/grid2005/, Nov. 2005.
35. Challenges of Large Applications in Distributed Environments (CLADE). Honolulu, HW, http://www.caip.rutgers.edu/clade2004/, 7 June 2004.
36. Workshop on Component Models and Systems for Grid Applications, held in conjunction with ICS 2004: 18th Annual ACM International Conference on Supercomputing, Saint-Malo, France, June 26-July 1, 2004.
37. EuroPar 2004. Pisa, Italy, http://www.di.unipi.it/europar04/, 31 Aug.3rd Sept. 2004.
38. BioGrid'04, Second International Workshop on Biomedical Computations on the Grid, held in conjunction with, 4-th IEEE/ACM International Symposium on Cluster Computing and the Grid, Chicago, Illinois, USA, April 19-22, 2004
39. Workshop on Component Models and Systems for Grid Applications, Held in conjunction with ICS 2004, 18th Annual ACM International Conference on Supercomputing. SaintMalo, France, June 26 July 1 2004.
40. 5th IEEE/ACM International Workshop on Grid Computing (Grid 2004) held in conjunction with SuperComputing 2004. Pittsburgh, USA, http://www.gridbus.org/grid2004/, 8 November 2004.
41. Advanced Computing and Communications ADCOM2004. Ahmedabad Gujarat, India, 15-18 December 2004.
42. IPDPS 2003, International Parallel and Distributed Processing Symposium (IPDPS). Nice, France, 26 April 2003.
43. International Conference on Machine Learning and Cybernetics 2003. http://www.icmlc2003.hbu.edu.cn.
44. The Eleventh International Conference on Parallel Architectures and Compilation Techniques. Charlottesville, Virginia, September 22-25 2002.
45. SAINT2002. The 2002 Symposium on Applications and the Internet. Nara City, Nara, Japan, http://www.icse.eecs.uic.edu/saint2002/, 28 Jan -1 Feb 2002.
46. The 2002 Symposium on Applications and the Internet. Nara City, Nara, Japan, http://www.icse.eecs.uic.edu/saint2002/, 28 Jan 1 Feb 2002.
47. Joint ACM Java Grande and ISCOPE 2002 Conference. Seattle, Washington, http://charm.cs.uiuc.edu/javagrandeIscope/, November 3-5 2002.
48. CCGrid 2002, 2nd IEEE/ACM International Symposium on Cluster Computing and the Grid. Berlin, Germany, http://ccgrid2002.zib.de/, 21-24 May 2002.
49. 1st IEEE/ACM International Symposium on Cluster Computing and the Grid. Brisbane, Australia, http://www.csse.monash.edu.au/ rajkumar/CCGrid2001/, 15-18 May 2001.
50. EuroPar 2001. Manchester, UK, http://europar.man.ac.uk/, 2831 August 2001.
51. IPDPS 2001, International Parallel and Distributes Processing Symposium . San Fransisco, CA, http://www.ipdps.org/ipdps2001/, 27 April 2001.
52. Second International Workshop on Infrastructure for Agents, MAS, and Scalable MAS. The 5th International Conference on Autonomous Agents, Montreal, Canada, http://www.cs.cf.ac.uk/User/O.F.Rana/agents2001/, May 28 - June 1 2001.
53. Java in High Performance Computing at HPCN Europe 2001 Conference . Amsterdam, The Netherlands, http://perun.hscs.wmin.ac.uk/JHPC01/, June 25-27 2001.
54. ACM Java Grande 2000 Conference. San Francisco, California, http://www.extreme.indiana.edu/java00, June 3-5 2000.
55. International Workshop on Metacomputing Systems and Applications. Toronto, August 2124 in conjunction with the 29th International Conference on Parallel Processing, http://www.enslyon.fr/desprez/MSA/MSA2000/msacfp.htm, August 21 2000.
56. Ninth SIAM Meeting on Parallel Processing. Minisymposium on Innovative Wide Area Applications, San Antonio, TX, 2224 March 1999. Session Host.
57. International Conference on Parallel and Distributed Processing Techniques and Applications. Las Vegas, Nevada, USA, June 30 - July 2 1999.
58. International Telemedical Information Society (ITIS) Symposium. http://www.hoise.com/vmw/conference/ITIS98/, 1998.
59. PDPTA 1998. Las Vegas, Nevada, August 1998. Session Host.
60. Supercomputing SC93. Portland, OR, http://www.supercomp.org, Nov. 15-19 1993.
61. Java for High Performance Networking, 1997, 1998, 1999, 2000, 2001.

**Journal Article Reviews**

1. Journal for Grid Computing.
2. Concurrency and Computation: Practice and Experience. http://aspen.ucs.indiana.edu/CandCPandE/
3. IEEE Concurrency. http://www.computer.org/concurrency/.
4. Parallel Computing
5. Computing in Science and Engineering
6. Journal of International Telemedical Information Society (ITIS) Letters.

# PROFESSIONAL AWARDS

*Sept. 2018:* Best Staff Award. School of Informatics, Computing, and Engineering,   
Bloomington, IN, U.S.A.

*Mar. 2005:* Sandia National Laboratories Recognition Award (as member of the CMCS

Team), Livermore, CA, U.S.A.

*Nov. 2004:* Overall best research poster at Supercomputing 2004, Pittsburgh, PA, U.S.A.

*Oct. 2003:* Chicago Innovation Award (as member of the Globus Project), Chicago, IL, U.S.A.

*Apr. 2003:*  Department of Energy Outstanding Mentor Award for Undergraduate Education, U.S.A.

*Oct. 2001:*  R&D100 Award (as member of the Globus Project), Chicago, IL, U.S.A.

*Nov. 1998:*  Best of show award in the High Performance Computing Challenge,

Supercomputing‚ 98, Orlando, FL.

*1995:* University Space Research Agency (USRA) fellowship at Goddard Space Flight Center.

*Oct. 1992:*  Overall best student paper at Supercomputing‚ SC’92.

*Sep. 1989:*  Financial assistance by the Department for Education and Research, Germany   
(due to outstanding grades upon graduation).

# SELECTED EDUCATIONAL ACTIVITIES

## Awards for Activities Supervised by Dr. von Laszewski

1. Special Judges award at the FLL World Championship, Detroit, 2017.
2. Multiple STEM FLL championship awards Indiana, State 2015- 2018.
3. Supervised the building of a cluster on a wall from recycled computer parts by 8 undergraduate honors students. The resulting cluster wall was presented by a student to the Institute and he won 1 of 5 awards among 65 group presentations, Aug. 2008.
4. von Laszewski, best research poster at SC 2004 among 109 submissions
5. Supervised the development of a Grid certificate authority that was awarded the best student project at Polytechnic New York.
6. Gregor von Laszewski, Apr. 2003, U.S. Department of Energy Outstanding Mentor Awards http://www.anl.gov/Media\_Center/Argonne\_News/2004/an040112.html
7. Supervised the development of an LDAP browser that won the Novel developers award.

## Undergraduate Education Projects

1. **REU Group at IU CGL:** Leading the organization of a group of 10 undergraduate students for 8 weeks as part of a Research Experience for Undergraduates. Intensely supervised 4 students. The result is published as a series of 6 posters available at http://cloudmesh.futuregrid.org/reu/
2. **RIT Honors Class**, 2008, Gregor von Laszewski. Cluster on a wall project (8 students). Winner of 1 of 5 University wide presentation awards among 65 presenting groups.
3. **NSF REU Site on Grid Computing and Bioinformatics**, 2006, D. Angulo and Gregor von Laszewski. (8 undergrads and 1 graduate student
4. **NSF REU Site on Grid Computing and Bioinformatics**, 2005, D. Angulo and Gregor von Laszewski. (8 undergrads and 1 graduate student)
5. **NSF REU Site on Grid Computing and Bioinformatics**, 2004, D. Angulo and Gregor von Laszewski. (8 undergrads and 1 graduate student) (Best poster award at SC2004)
6. **Computationally Mediated Experimental Science** Gregor von Laszewski, Nestor J. Zaluzec, Xian-He Sun, Interprofessional Project Team Course, IPRO at Illinois Institute of Technology, Chicago, IL, Spring 2003. (3 undergrads and 3 graduate students) http://www.cogkit.org/viewcvs/viewcvs.cgi/papers/pdf/IPRO2.pdf?rev=HEAD
7. **DOE/NSF Faculty-Student Teams (FaST) Program**, 2003 (1 faculty and 3 undergraduate students) http://www.anl.gov/Media\_Center/logos20-3/fasttrack.htm, http://www.scied.science.doe.gov/scied/Abstracts2003/ANLcs.htm
8. **3D Visualization for NEESgrid Earthquake Engineering Laboratory Experiments**. Sze Man Chan (Pace University, New York, NY 10038) Gregor von Laszewski (Argonne National Laboratory, Argonne, IL 60439). Department of Energy, Office of Science, Office of Workforce Development for Teachers and Scientists,
9. **3D Visualization Toolkit**. Shuaib Chowdry (Pace University, NYC, NY 11103) H. Winkler (Pace University, NYC, NY 11103), 2003, Gregor fon Laszewski.
10. **Multithreaded Sensor Server Architecture for Instrument Monitoring**. Oleg Yunakov (Pace University, New Yoork, NY 10038) 2003, Gregor von Laszewski (Argonne National Laboratory, Argonne, IL 60439).
11. **DOE/NSF Faculty-Student Teams (FaST) Program**, Supporting Grid Computing with Java, Igor Diner, Oleg Yunakov, Dennis Anderson (Pace University, New York, NY 10038) Gregor von Laszewski (Argonne National Laboratory, Argonne, IL 60439), 2002, http://www.anl.gov/Media\_Center/News/2002/news020822.htm (1 faculty and 2 undergraduate students)
12. **DOE SULI:** **A Comparative Performance Analysis of the Java CoG Kit**. Mihael Hategan (Illinois Institute of Technology, Chicago, IL 60616) 2003, Gregor von Laszewski (Argonne National Laboratory, Argonne, IL 60439).

## K-12

1. **Purdue University K-12 Education Seminar**, Sept. 2012, Gregor von Laszewski. Introduction to Cloud Computing for K-12 students.

## K-6/5

1. STEM: Taught Programming to a team of elementary school children 5th and 6th graders that **won 2nd price** in the regional FLL competition 2015 (remarkable due to the ages while the winning team was high school)

## Thesis Advised

1. MS: **JavaScript CoG Kit**. Fugang Wang, Rochester Institute of Technology, Dec 2009.
2. MS: **GreenIT VM scheduling**. Casey Rathbone, Dec 2010.
3. MS (Masters Project): **Grid Security**. Akylbek Zhumabayev, Rochester Institute of Technology, Graduation June 2009.
4. PhD: **GridTorrents**. Ali Kaplan, Indiana University, Graduation June 2009.
5. MS: **GridShell**, Boris Wachtmeister, Technical University Aachen, March 2008.
6. MS: **Deployment Issues in Grid Computing**. Guru Prasad, Southern Illinois University, Fall 2006.
7. PhD: **An Integrated Architecture for Ad Hoc Grids**. Kaizar Amin, Computer Science and Engineering Department, University of North Texas. Jan, 2006.
8. BS: **Grid Service Data Needed for Estimation of Reliability in Scientific Workflow Systems**, Daniel Colonnese, North Carolina State University, 2004
9. MS: **Grid Eigen Trust**, A Framework for Computing Reputation in Grids. Beulah Kurian Alunkal, Computer Science Department, Illinois Institute of Technology, Chicago. Dec 2003.
10. MS: **The Java CoG Kit Grid Desktop**, A Simple and Central Approach to Grid Computing Using the Graphical Desktop Paradigm, Pankaj R. Sahasrabudhe, University of Louisville, 2003
11. MS: **Adapting BPEL4WS to the Grid**, (commitee member), Marcial Rion, Mathias Kengelbacher, A workflow language proposal for Grid environments, 2000, Main Advisor: Dr. Josef M. Joller, School of Technik, Raperswil, CH
12. BS: **A Grid Certifiate Authority**, Mike Sosonkin, Polytechnic University, Brooklyn, New York (Best student project of the graduating class)

# Recent TEACHING Activities

1. Independent Studies in Cloud Computing Engineering and AI, Sp & Fa 2020, Sp 2021
2. FAMU support of 18 students from which 17 were minorities
3. Summer Research Experience, 2021
4. UROC, 2021
5. UROC, 2020
6. AI-First, assistant in Class management, and teaching of GitHub, 2021
7. Cloud Computing Engineering, last taught Spring, 2020
8. Advanced Cloud Computing Engineering, last taught 2020
9. Big Data Applications and Analytics (together 109 students), Fall 2016, Indiana University
   1. INFO-I 523 BIG DATA APPLS & ANALYTICS (3 CR) Residential Claas
   2. ENGR-E 599 TOPICS IN INTELL SYS ENGINEER (3 CR) Residential Class
   3. INFO-I 423 BIG DATA APPLS & ANALYTICS (3 CR) Residential Class
   4. INFO-I 523 BIG DATA APPLS & ANALYTICS (3 CR) Online Class
10. STEM students taught at Lakeview Elementary classes introduction to robotics for the participation in the FLL Challenge, 8 students, the team won the 2nd prize in the Indiana state competition in the programming category (remarkable due to the age of the students).
11. Recent supervision of independent studies and projects (2016)
    1. Wang, Fugang, Staff
    2. Abdul-Wahid, Badi, PhD, Staff
    3. Anthony Orlowsky Independent study
    4. Richard ???
    5. Agrawal, Arpit, Independent Study, Cloud Workflow
    6. Balasubramani, Prashanth, TA
    7. Bindi, Thanmai, Independent Study, Django security with Yubikeys
    8. Lee, Hyungro TA
    9. Shenoy, Gourav, RA
    10. Shivanand, Supreeth, Independent Study, AWS, AZURE AND Ec2 integration
    11. Rajagopal, Ashwini, Volunteer, Portal for cloudmesh
    12. Wagle, Mangirish, RA

# Software Developed

## Selected Current Software Projects

1. More than 70 projects at Cloudmesh Code Repositories, 2021-04, https://github.com/cloudmesh
2. More than 174 projects at Cloudmesh Community 2021-04, https://github.com/cloudmesh-community
3. Cyberaide Bookmanager2021-04, https://pypi.org/project/cyberaide-bookmanager/
4. Cloudmesh for SDSC virtual cluster project (Architect of client)
5. FutureGrid Software (Architect)
6. FutureGrid Image Management (Architect)
7. FutureGrid Cloud Accounting (Architect)
8. TAS XDMoD (accounting report generator, software science impact)

## Selected Completed projects

AdHoc Workflows, Grid Desktop GridFTP user interface, GridRLS user interface, GridAnt, Grid Certificate Authority, Qstat Monitor for Cobalt and PBS queuing systems, GSFL – Grid Service Flow Language, Cyberaide, Gridshell, Grid MS Project, Java CoG Kit, GridScript, GridWorkflow (Karajan), GridTorrent, Adaptive workflows for threat management analysis, Real time analysis of advanced photon source data, Coordination of fast nuclear reactor simulations, Developed a sophisticated Metacomputing environment allowing seamless uses of multiple supercomputers, Developed one of the very first parallel Genetic algorithms for k-way Graph Partitioning