



Gregor von Laszewski, Ph.D.

Adjunct Associate Prof. Intelligent Systems Engineering

Assistant Director Digital Science Center

<https://laszewski.github.io> 

Up-to-date CV available at 

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Bloomington, IN 47408

EDUCATION

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

Thesis: A Parallel Data Assimilation System and Its Implications on a Metacomputing Environment

Advisor: Geoffrey C. Fox

Fellowship at The Ohio State University, Columbus, OH *Sep. 1990 – Sep. 1991*

Graduate exchange student

M.S. Computer Science (Diplom Informatiker), University of Bonn, Germany
Sep. 1987 - Nov. 1990

in collaboration with

The German National Institute for Information Technology (GMD),
now **Fraunhofer-Gesellschaft**

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

Major: Artificial Intelligence

Minor: Physics

Advisor: Heinz Mühlenbein

B.S. Computer Science (Vordiplom), University, of Bonn, Germany.

Sep. 1984 - Apr. 1987

Major: Computer Science

Minor: Physics

EXPERIENCE

Adjunct Professor, Intelligent Systems Engineering Department *Sep. 2016-present*
Indiana University, Bloomington, IN

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

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

Adjunct Professor, Computer, Science Department *Sep. 2012 – Sep. 2015:*
Indiana University, Bloomington, IN

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

Scientist, Argonne National Laboratory, *Apr. 2002 – Jul. 2009*
Mathematics and Computer Science Division. Argonne, IL.

Sabbatical from Argonne National Laboratory *Aug. 2007 – Jul. 2009*
Associate Professor, Rochester Institute of Technology, Rochester, NY
Director, Service-Oriented Cyberinfrastructure Laboratory
Associate Professor, Computer Science Department
Associate Professor, Ph.D. Program, GCCIS
Rochester Institute of Technology, Rochester, NY

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

Visiting Professor, University of North Texas. *Nov. 2004 - Jan. 2005*
Department of Computer Science and Engineering, Denton, TX,

Assistant computer scientist, Argonne National Laboratory, *Nov. 1998 - Apr. 2002*
Mathematics and Computer Science Division. Argonne, IL.

Visiting professor/Guest Lecturer, Illinois Institute of Technology.
Jan. 2002 - Dec. 2002
Computer Science Department, Chicago IL

Postdoctoral researcher, Argonne National Laboratory *Nov. 1996 - Nov. 1998*
Mathematics and Computer Science Division. Argonne, IL.

Research assistant, NASA Goddard Space Flight Center *Jun. 1994 - Jan. 1995*

University Research Space Agency (USRA), Greenbelt, MD.

Research assistant, German National Research Center *Feb. 1987 - Sept. 1990*

for Information Technology (GMD)

now Fraunhofer Gesellschaft, Sankt Augustin, Germany

AWARDS

Best Staff Award. *Sept. 2018*

School of Informatics, Computing, and Engineering, Bloomington, IN, U.S.A.

Special Judges award at the FLL Robotics World Championship *2018*

Team coached won the special judges award, Detroit. The team also won multiple championship awards in the State of Indiana (2015–2018).

Sandia National Laboratories Recognition Award *Mar. 2005*

Member of the CMCS Team, Livermore, CA, U.S.A.

Overall best research poster at Supercomputing 2004 *Nov. 2004*

Poster won among 109 submissions. Pittsburgh, PA, U.S.A.

Chicago Innovation Award *Oct. 2003*

As member of the Globus Project, Chicago, IL, U.S.A.

Department of Energy Outstanding Mentor Award *Apr. 2003*

Argonne, IL, U.S.A. 

Best of Show award in the High-Performance Computing Challenge Supercomputing, 98

Nov. 1998

Received the award on stage, coordinated across multiple National Labs the application was leading to the HPC Challenge award, Orlando, FL.

Fellowship, University Space Research Agency (USRA) at Goddard Space Flight Center.
1995

Fellowship, The Ohio State University. *1990*

Overall best student paper at Supercomputing, SC'92. *Oct. 1992*




Department for Education and Research, Germany *Sep. 1989*



Financial waiver by due to outstanding grades upon graduation.

Awards for Activities Supervised by Dr. von Laszewski

1. Best student research project 2015, Indiana University SOIC
2. 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.
3. Supervised the development of a Grid certificate authority that was awarded the best student project at Polytechnic New York.
4. Supervised the development of an LDAP browser that won the Novel developers award.

GRANTS

1. NSF: co-PI Gregor von Laszewski, XD Metrics Service (XMS), Jul. 2015 – Aug. 2021, #1445806 , , \$750K Total to G. von Laszewski
2. XPS: FULL: DSD: Collaborative Research: Rapid Prototyping HPC Environment for Deep Learning, July 2, 2018 - Aug 2022, 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, 
5. NSF: co-PI Gregor von Laszewski, XPS: FULL: DSD: Collaborative Research: Rapid Prototyping HPC Environment for Deep Learning, \$315K total. 
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. , \$500K, Sep. - 2004 Sep. 2006.
18. DOE: Gregor von Laszewski and Keith Jackson. Commodity Grid Kits, Enabling Middleware for Designing Science Applications. , \$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 Grid-based Collaboratory for RealTime Data Acquisition IU/ANL, FWP 56890, \$300K, FY1999.

SELECTED EDUCATIONAL ACTIVITIES

1. Undergraduate Research Opportunities

- Virtual Summer REU at Florida Agricultural and Mechanical University
support of 18 students from which 17 were minorities, Summer 2020
- Summer Research Experience at Indiana University
Supervised 5 students from which 4 are minorities, Summer 2021
- Undergraduate Research Opportunities in Computing, Indiana University 2020, 2021
- Research experience for undergraduates
Leading the organization of a group of 10 undergraduate students
- RIT Honors Class, Parallel Compute Cluster, Rochester Institute of Technology, 2008
- NSF REU Site on Grid Computing and Bioinformatics, DePaul University 2004-2006
- Interprofessional Project Team Course, IPRO at Illinois Institute of Technology, Chicago, IL, Spring 2003
- DOE/NSF Faculty-Student Teams (FaST) Program, Argonne National Labs, IL, 2003, 2002

2. Various courses related to Grid Computing and Big Data, Indiana University

- ENGR-E 599 Independent Study in Cloud Computing Engineering and AI,
Spring 2020, Fall 2020, Spring 2021
- CSCI-B 649 Graduate: Topics in Systems with focus on Cloud Computing, Spring 2020
- ENGR-E 616 Graduate: Advanced Cloud Computing, Spring 2018, Spring 2020
- ENGR-E 516 Graduate: Engineering Cloud Computing Spring 2018, Fall 2018, Spring 2019, Spring 2020
- INFO-I 423 Undergraduate: Big Data Applications and Analytics (Undergraduates), Fall 2016
- INFO-I 523 Graduate: Big Data Applications and Analytics (Graduates), Fall 2016
- ENGR-E 599 Graduate: Topics in Intelligent Systems Engineering, Fall 2016
- CSCI-Y 790 Graduate: Graduate Independent Study, Fall 2014

3. STEM student activities

- K5-6: Summer Camp, Indiana University, Introduction to Robotics and Python, Summer 2014
- K5-6: Introduction to Robot Programming, Indiana University
- K-12: Introduction to Cloud Computing for K-12 students, Purdue University K-12 Education Seminar, Sept. 2012
- K-12: Designing a Raspberry PI Cluster Case, Indiana University
- K5-12: Summer Camp on Robotics, Indiana University

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, June 2009.
5. MS: GridShell, Boris Wachtmeister, Technical University Aachen, Germany, 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, (committee member), Marcial Rion, Mathias Kengelbacher, A workflow language proposal for Grid environments, 2000, Main Advisor: Dr. Josef M. Joller, School of Technik, Rapperswil, CH
12. BS: A Grid Certificate Authority, Mike Sosonkin, Polytechnic University, Brooklyn, New York (Best student project of the graduating class)

H-INDEX

As of August 21, 2021 Google scholar reported 11210 and an h-index of 46

TECHNICAL STRENGTHS

Throughout my career, I have used many software systems and programming languages. I have developed and overseen many different projects that simplified utilization of Cloud, Distributed Computing, and Grid Infrastructure. I am the lead architect of cloudmesh. I was the lead architect of FutureGrid (a multcloud deployment) and the Java CoG Kit which supported many application portals to provide easy access to heterogeneous distributed HPC infrastructure.

Cloud Computing	VM, Containers, cloudmesh interfaces with AWS, Azure, Google, Oracle
Web related	REST, JSON, YAML
Computer Languages	Python, Java, Perl, C, C++, OCCAM, and others
Administartion	Project execution
GitHub	I am managing over 200 GitHub repositories
Collaboration	I am able to lead and work in large collaborative projects

STANDARDS DOCUMENTS

<div>refsegment:01</div> <div>las-2020-nist-bigdata</div>	[1] <i>NIST Big Data</i> , Web Page, Feb. 2020. [Online]. Available: ↗ .
<div>las-2019-nist</div>	[2] G. von Laszewski and W. L. Chang, “NIST Big Data Interoperability Framework: Volume 8, Reference Architecture Interfaces,” National Institute of Standards, Tech. Rep., Jun. 2019. [Online]. Available: ↗ .
<div>las-2019-nist-vol8</div>	[3] “NIST Big Data Interoperability Framework: Volume 8, Reference Architecture Interfaces,” NIST, Gaithersburg, MD 20899, NIST Special Publication 1500-9r1, Oct. 2019. [Online]. Available: ↗ .
<div>las-2001-gosv3</div>	[4] G. von Laszewski, M. Helm, S. M. Fitzgerald, P. Vanderbilt, B. Didier, P. Lane, and M. Swany, “GOSv3: A Data Definition Language for Grid Information Services,” in <i>Argonne National Laboratory and Pacific Northwest Laboratory and Grid Forum Working Group Document GWD-GIS-011-11</i> , 2001. [Online]. Available: ↗ .
<div>las-2001-gosv2</div>	[5] S. Fitzgerald, G. von Laszewski, and M. Swany, “GOSv2: A Data Definition Language for Grid Information Services,” in <i>Global Grid Forum and GWD-GIS-011-5</i> , 2001. [Online]. Available: ↗ .

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<div>refsegment:02</div> <div>las-2000-ldap-browser</div>	[6] J. Gawor and G. von Laszewski, <i>LDAP Browser/Editor</i> , Copyright, 2000.
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PROCEEDINGS

refsegment:03
las-2012-fedcloud-proc

- [7] G. von Laszewski, R. Grossman, M. Kozuchand, R. McGeer, and D. Milojicic, Eds., *FederatedClouds '12: Proceedings of the 2012 Workshop on Cloud Services and Federation, and the 8th Open Cirrus Summit*, San Jose, California, USA: ACM, 2012, ISBN: 978-1-4503-1754-2. [Online]. Available: [↗](#).

las-2011-workshop-data

- [8] *Workshop on data intensive computing in the clouds-DataCloud*, 2011, p. 1033. [Online]. Available: [↗](#).

las-2007-gce

- [9] G. von Laszewski, Ed., *Grid Computing Environments 2007 Conference Proceedings*, in conjunction with IEEE/ACM SC07, Reno, NV: Published Mar. 2008, Rochester Institute of Technology, Rochester NY, Nov. 2007.

las-2006-gce

- [10] G. von Laszewski, Ed., *Grid Computing Environments 2006 Conference Proceedings*, in conjunction with IEEE/ACM SC06, Tampa, FL: Published Aug. 2008, Rochester Institute of Technology, Rochester NY, Nov. 2006.

SELECTED CLASS BOOKS AND PROCEEDINGS

refsegment:04
las-2020-book-cloudeng

- [11] G. von Laszewski, “Cloud Computing,” Indiana University, Bloomington IN, U.S.A., Online Book, Feb. 2020. [Online]. Available: [↗](#).

las-2020-book-python

- [12] —, “Python for Cloud Computing,” Indiana University, Bloomington IN, U.S.A., Online Book, Feb. 2020. [Online]. Available: [↗](#).

las-2020-book-linux

- [13] —, “Linux for Cloud Computing,” Indiana University, Bloomington IN, U.S.A., Online Book, Feb. 2020. [Online]. Available: [↗](#).

las-2020-book-markdown

- [14] —, “Scientific Writing with Markdown,” Indiana University, Bloomington IN, U.S.A., Online Book, Feb. 2020. [Online]. Available: [↗](#).

las-2020-book-tech

- [15] —, *Cloud Technologies*, 3rd ed., ser. Indiana University, Class Book. Bloomington IN, U.S.A.: Online, Dec. 2019, p. 998. [Online]. Available: [↗](#).

las-2018-handbook

- [16] G. von Laszewski and G. C. Fox, *Handbook of Clouds and Big Data*. Bloomington. IN: Indiana University, Dec. 2018. [Online]. Available: [↗](#).

las-2018-projects-1

- [17] G. Laszewski, Ed., *Projects in Big Data Software and Applications (Proceedings)*. Online, Indiana University, May 2017. [Online]. Available: [↗](#).

las-2018-software-1

- [18] G. Laszewski, Ed., *Big Data Software 1 (Proceedings)*. Online, Indiana University, 2017. [Online]. Available: [↗](#).

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| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">las-2018-software-2</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">las-2018-usecase-vol-2</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">las-2018-usecase-vol-1</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">las-2018-usecase-vol-3</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">las-2018-tech-vol-8</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">las-2018-tech-vol-9</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">las-2018-class-proceedings</div> <div style="border: 1px solid black; padding: 2px;">las-1995-issues-parallel</div> | <p>[19] G. Laszewski, Ed., <i>Big Data Software 2 (Proceedings)</i>. Online, Indiana University, Dec. 2017. [Online]. Available: ↗.</p> <p>[20] G. Laszewski, Ed., <i>Use Cases in Big Software and Analytics (Proceedings)</i>. Online, Indiana University, Dec. 2017, vol. 2. [Online]. Available: ↗.</p> <p>[21] G. Laszewski, Ed., <i>Use Cases in Big Software and Analytics (Proceedings)</i>. Online, Indiana University, 2017, vol. 1. [Online]. Available: ↗.</p> <p>[22] G. Laszewski, Ed., <i>Use Cases in Big Data Software and Analytics (Proceedings)</i>. Online, Indiana University, Jan. 2018, vol. 3. [Online]. Available: ↗.</p> <p>[23] G. Laszewski, Ed., <i>Cloud and Big Data Technologies (Proceedings)</i>. Online, Indiana University, 2018, vol. 8. [Online]. Available: ↗.</p> <p>[24] G. Laszewski, Ed., <i>Cloud and Big Data Technologies (Proceedings)</i>. Online, Indiana University, 2018, vol. 9. [Online]. Available: ↗.</p> <p>[25] G. Laszewski, Ed., <i>Cloud Computing Papers, Class Proceedings</i>. Online, Indiana University. [Online]. Available: ↗.</p> <p>[26] G. von Laszewski, <i>Issues in Parallel Computing</i>. 1995. [Online]. Available: ↗.</p> |
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BOOK CHAPTERS

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| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">refsegment:05</div> <div style="border: 1px solid black; padding: 2px;">las-2014-bigdata</div> | <p>[27] G. von Laszewski, F. Wang, Lee, Hyungro, Chen, Heng, and G. C. Fox, “The FutureGrid Testbed for Big Data,” in <i>Cloud Computing for Data-Intensive Applications</i>, ser. BigSystem '14, X. Li and J. Qiu, Eds., Vancouver, BC, Canada: Springer, 2014, TBD, ISBN: 978-1-4503-2909-5. DOI: 10.1145/2609441.2609638. [Online]. Available: ↗.</p> |
| <div style="border: 1px solid black; padding: 2px;">las-2013-fg-bookchapter</div> | <p>[28] G. C. Fox, G. von Laszewski, J. Diaz, K. Keahey, J. Fortes, R. Figueiredo, S. Smallen, W. Smith, and A. Grimshaw, “Contemporary High Performance Computing,” in J. S. Vetter, Ed., 1st ed. Boca Raton, FL: Chapman and Hall/CRC, 2013, vol. 1, ch. Futuregrid: a Reconfigurable Testbed for Cloud, HPC and Grid Computing, pp. 603–636, republished in 2018, ISBN: 9781351104005. [Online]. Available: ↗.</p> |
| <div style="border: 1px solid black; padding: 2px;">las-2011-ondemand</div> | <p>[29] J. Dayal, C. Rathbone, L. Wang, and G. von Laszewski, “Towards on Demand IT Service Deployment,” in <i>Internet Policies and Issues. Volume 7 - 2nd quarter</i>, Nova, 2011, pp.249–262, ISBN: 978-1-61668-745-8.</p> |
| <div style="border: 1px solid black; padding: 2px;">las-2011-greenchapter</div> | <p>[30] A. J. Younge, G. von Laszewski, L. Wang, and G. C. Fox, “Providing a Green Framework for Cloud Based Data Centers,” in <i>The Handbook of Energy-Aware Green Computing</i>, Ahmad, I., Ranka, and Sanjay, Eds., Chapman and Hall/CRC Press, 2011, ch. 17, ISBN: 978-1-4665-0116-4. [Online]. Available: ↗.</p> |

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| <div style="border: 1px solid black; padding: 2px; display: inline-block;">las-2009-cloudcomp</div> | [31] T. Kurze, L. Wang, G. v. Laszewski, J. Tao, M. Kunze, F. Wang, D. Kramer, W. Karl, and J. Ekanayake, “Cyberaide Virtual Appliance: On-Demand Deploying Middleware for Cyberinfrastructure,” in <i>International Conference on Cloud Computing (CloudComp’09)</i> , ser. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, Avresky, D. R., Diaz, Michel, Bode, Arndt, Ciciani, Bruno, Dekel, Eliezer, Akan, Ozgur, Bellavista, Paolo, Cao, Jiannong, Dressler, Falko, Ferrari, Domenico, Gerla, Mario, Kobayashi, Hisashi, Palazzo, Sergio, Sahni, Sartaj, Shen, X. (Sherman), Stan, Mircea, Xiaohua, Jia, Zomaya, Albert, Coulson, and Geoffrey, Eds., vol. 34, Munich, Germany: Springer Berlin Heidelberg, Oct. 2010, pp. 132–144, ISBN: 978-3-642-12636-9. DOI: 10.1007/978-3-642-12636-9_10. [Online]. Available: ↗ . |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">las-2007-workflow</div> | [32] G. von Laszewski, M. Hategan, and D. Kodeboyina, “Java CoG kit workflow,” in <i>Workflows for e-Science</i> , Springer London, 2007, pp. 340–356. DOI: 10.1007/978-1-84628-757-2_21. [Online]. Available: ↗ . |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">las-2006-workcoordination</div> | [33] —, “Work coordination for Grid computing,” in <i>Grid Technologies</i> , ser. State-of-the-art in Science and Engineering, M. Bekakos, G. Gravvanis, and H. Arabnia, Eds., vol. 5, Wit, 2006, ISBN: 1-84564-055-1. [Online]. Available: ↗ . |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">las-2006-workflow-book</div> | [34] G. von Laszewski, M. Hategan, and D. Kodeboyina, “Grid Workflow with the Java CoG Kit,” in <i>Workflows for E-science: Scientific Workflows for Grids</i> , I. J. Taylor, E. Deelman, D. B. Gannon, and M. Shields, Eds., Secaucus, NJ, USA: Springer-Verlag New York and Inc., 2007, ISBN: 1846285194. [Online]. Available: ↗ . |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">las-2005-qos-book</div> | [35] O. Rana, A. Akram, R. Al-Ali, D. Walker, G. von Laszewski, and K. Amin, “Quality-of-Service Based Grid Communities,” in <i>Extending Web Services Technologies: The Use of Multi-Agent Approaches</i> , ser. Multiagent Systems, Artificial Societies and Simulated Organizations, L. Cave-don, Z. Maamar, D. Martin, and B. Benatallah, Eds., vol. 13, Springer, 2005, ISBN: 0-387-23343-1. DOI: 10.1007/0-387-23344-X_8. [Online]. Available: ↗ . |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">las-2004-middleware</div> | [36] G. von Laszewski and K. Amin, “Middleware for Communications,” in <i>Grid Middleware</i> , Q. H. Mahmoud, Ed., Wiley, 2004, pp. 109–130, ISBN: 0-470-86206-3. DOI: 10.1002/0470862084.ch5. [Online]. Available: ↗ . |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">las-2004-gestalt</div> | [37] G. von Laszewski and P. Wagstrom, “Gestalt of the Grid,” in <i>Tools and Environments for Parallel and Distributed Computing</i> , ser. Parallel and Distributed Computing, S. Hariri and M. Parashar, Eds., Wiley, 2004, pp. 149–187, ISBN: 978-0-471-47484-5. [Online]. Available: ↗ . |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">las-2004-grid-pattern</div> | [38] K. Amin and G. von Laszewski, “High-Level Grid Execution Patterns,” in <i>Distributed Computing - IWDC 2004</i> , Springer Berlin Heidelberg, 2004, pp. 543–543. DOI: 10.1007/978-3-540-30536-1_69. [Online]. Available: ↗ . |

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| las-2003-gridcomputing |
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- [39] G. von Laszewski and K. Amin, “Grid Middleware,” in *Middleware for communications*, Q. Mahmoud, Ed. Chichester, England and Hoboken, NJ: Wiley, 2004, ISBN: 978-0-470-86206-3. [Online]. Available: [↗](#).
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SELECTED INVITED TALKS AND PRESENTATIONS


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2. Data Analytics with the Big Data NIST Reference Architecture. Gregor von Laszewski, IndyPy – PyData Indy 2019. Video URL: [↗](#)
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5. Cloudmesh, HPCS2014 Halifax, Nova Scotia, CA, June 25- 27, 2014
6. FutureGrid, OpenCirrus Meeting, Oct 2011, Georgia Tech
7. Panelist: Opportunities of Services Business in Cloud Age at Cloud2011, 7/8/2011
8. Green Computing, IUPUI, Indianapolis, IU Energy Conference, Aug 6-7, 2009.

9. Towards GreenIT, Indiana University, July, 2009.
10. Grids for Synchrotrons, ESRF Grenoble, , Dec 8, 2008.
11. Cyberinfrastructure Research. 2008, University of Albany
12. Scientific Workflows. 2008, Research Computing and NYSGrid via Access Grid, Rochester Institute of Technology
13. Cyberinfrastructure Workflows. 2008, CCRG Rochester Institute of Technology
14. Cyberinfrastructure Research. 2007, IBM Raleigh
15. Grid Workflows, 2007, Georgia Tech
16. Grid Workflows, 2007, University of Buffalo
17. CoG Kits: an opportunity for Collaboration, October 2006, Southern Illinois University
18. 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 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).
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).
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. Using 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 98/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. , 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 Symposium on 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 Commodity 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, 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.
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. .
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 Francisco, 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.
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

My community activities involve a wide variety of activities, including program committees, grant reviews, community education, advisory board. Most recently, however, I have refocussed the community activities while spending my time voluntarily on educational activities of the community. This includes extraordinary efforts with STEM students, undergraduates and Graduate students. This effort has been most rewarding as I have seen many students accelerating in their educational quest and excellence manifested by several awards.

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 place 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. .
6. NSF Review Panels, 2004.
7. DOE proposal reviews, 2002, 2003, 2004, 2005, 2006.
8. GCE08 Steering Committee

Chair and Steering Committee


1. 2016 IEEE International Conference on Cloud Engineering Workshop (IC2EW).
2. 1109/IC2EW.2016.66
3. CCGrid2015, CCGrid2016, Committee Member
4. CloudCom 2014, Track Chair
5. ICCCT-2014, 5th International Conference on Computer and Communication Technology, Reviewer
6. CAC 2013, Track Chair
7. Workshop on Federated Clouds 2012 and 8th OpenCirrus Summit, (Co-Chair, Program Co-chair, Proceedings editor)
8. Dagstuhl Seminar Mar 2009 (Co-Chair).
9. GCE08 in conjunction with SC08, co-Chair
10. GCE07 Steering Committee
11. Grid 2007, Program vice-chair, Austin, TX collocated with Cluster 2007, Sept 17 - 21 in 2007
12. GCE06 in conjunction with SC06, Chair
13. Minisymposium on Grid Workflow, Globus World, San Francisco, 20 January 2004. Chair.
14. Minisymposium on Grid Workflow. Gregor von Laszewski and Ewa Delman. San Francisco, CA, 2023 January 2003. Chair.
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 15-18 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, 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., 7 December 1999. Steering Committee and Chair.
23. IEEE Task Force on Cluster Computing. 1998-2000. Advisory Committee.
24. SC98 BoF: Desktop Access to Remote Resources. Gregor von Laszewski. Orlando, FL, November 1998.
25. Organizer of the BoF. Supercomputing SC93. Portland, OR, 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 and 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, , March 25-29, 2007 (Committee)
22. 2-nd IEEE International Conference on e-Science and Grid Computing, Dec. 4- 6, 2006, Amsterdam, Netherlands, (Committee).
23. IEEE 2006 International Symposium on Modern Computing, 3-6 October 2006, Sofia, Bulgaria, (Committee)
24. Grid2006, (Committee)
25. ICCGI06 International Multi-Conference on Computing in the Global Information Technology, March 15, August 1-3, 2006, Bucharest, Romania, (Advisory Committee)
26. Supercomputing, SC06, SC03, SC00, SC98, SC97, SC95.
27. PPAM 2005, Sixth International Conference on Parallel Processing and Applied Mathematics.
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, HICSS-38, Jan. 2005.
31. Third International Symposium on Automated Technology for Verification and Analysis, Taipei, Taiwan, 4-7 October 2005.
32. International Conference on eScience and Grid Technologies 2005. Melbourne, Australia, 5-8 December 2005.
33. 6th IEEE/ACM International Workshop on Grid Computing (Grid 2005) held in conjunction with SuperComputing 2004. Seattle, WA, Nov. 2005.
34. Challenges of Large Applications in Distributed Environments (CLADE). Honolulu, HI, 7 June 2004.

35. 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.
36. EuroPar 2004. Pisa, Italy, 31 Aug.3rd Sept. 2004.
37. 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
38. 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.
39. 5th IEEE/ACM International Workshop on Grid Computing (Grid 2004) held in conjunction with SuperComputing 2004. Pittsburgh, USA, 8 November 2004.
40. Advanced Computing and Communications ADCOM2004. Ahmedabad Gujarat, India, 15-18 December 2004.
41. IPDPS 2003, International Parallel and Distributed Processing Symposium (IPDPS). Nice, France, 26 April 2003.
42. International Conference on Machine Learning and Cybernetics 2003.
43. The Eleventh International Conference on Parallel Architectures and Compilation Techniques. Charlottesville, Virginia, September 22-25 2002.
44. SAINT2002. The 2002 Symposium on Applications and the Internet. Nara City, Nara, Japan, 28 Jan -1 Feb 2002.
45. The 2002 Symposium on Applications and the Internet. Nara City, Nara, Japan, 28 Jan 1 Feb 2002.
46. Joint ACM Java Grande and ISCOPE 2002 Conference. Seattle, Washington, November 3-5 2002.
47. CCGrid 2002, 2nd IEEE/ACM International Symposium on Cluster Computing and the Grid. Berlin, Germany, 21-24 May 2002.
48. 1st IEEE/ACM International Symposium on Cluster Computing and the Grid. Brisbane, Australia, 15-18 May 2001.
49. EuroPar 2001. Manchester, UK, <http://europar.man.ac.uk/>, 2831 August 2001.
50. IPDPS 2001, International Parallel and Distributed Processing Symposium . San Fransisco, CA, 27 April 2001. 

51. Second International Workshop on Infrastructure for Agents, MAS, and Scalable MAS. The 5th International Conference on Autonomous Agents, Montreal, Canada, May 28 - June 1 2001. [↗](#)
52. Java in High-Performance Computing at HPCN Europe 2001 Conference. Amsterdam, The Netherlands,
53. ACM Java Grande 2000 Conference. San Francisco, California, June 3-5 2000.
54. International Workshop on Metacomputing Systems and Applications. Toronto, August 21-24 in conjunction with the 29th International Conference on Parallel Processing, August 21 2000.
55. Ninth SIAM Meeting on Parallel Processing. Minisymposium on Innovative Wide Area Applications, San Antonio, TX, 22-24 March 1999. Session Host.
56. International Conference on Parallel and Distributed Processing Techniques and Applications. Las Vegas, Nevada, USA, June 30 - July 2 1999.
57. International Telemedical Information Society (ITIS) Symposium, 1998.
58. PDPTA 1998. Las Vegas, Nevada, August 1998. Session Host.
59. Supercomputing SC93. Portland, OR, Nov. 15-19 1993.
60. 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.
3. IEEE Concurrency.
4. Parallel Computing
5. Computing in Science and Engineering
6. Journal of International Telemedical Information Society (ITIS) Letters.

SOFTWARE DEVELOPED

Selected Current Software and Online Projects

refsegment:011

Defining schemas for the grid information services

las-2021-cybertraining-pub	[217] G. von Laszewski and G. Fox, <i>Cybertraining publications</i> , Web Page, Aug. 2021. [Online]. Available: ↗ .
las-2020-github-bookmanager	[218] G. Laszewski, <i>Cyberaide Bookmanager</i> , PyPI and GitHub, Feb. 2020. [Online]. Available: ↗ .
github-cloudmesh-community	[219] G. von Laszewski, <i>Cloudmesh Community</i> , GitHub, Feb. 2020. [Online]. Available: ↗ .
las-2020-github-cloudmesh	[220] G. Laszewski, <i>Cloudmesh Code Repositories</i> , GitHub, Feb. 2020. [Online]. Available: ↗ .
2015-portal-futuresystems	[221] Digital Science Lab, <i>FutureSystems at Indiana University</i> , 2015. [Online]. Available: ↗ .

1. More than 70 projects at Cloudmesh Code Repositories, 2021-04, [↗](#)
2. More than 174 projects at Cloudmesh Community 2021-04, [↗](#)
3. Cloudmesh for SDSC virtual cluster project (Architect of client)
4. FutureGrid Software (Architect)
5. FutureGrid Image Management (Architect)
6. FutureGrid Cloud Accounting (Architect)
7. 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.