

# George K. Thiruvathukal | C.V.

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## Academic Appointments

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<b>Loyola University Chicago</b> <i>Professor of Computer Science</i>	<b>Chicago, IL</b> 2011–Present
<b>Argonne National Laboratory</b> <i>Visiting Computer Scientist, Argonne Leadership Computing Facility</i>	<b>Argonne, IL</b> 2015–Present
<b>Loyola University Chicago</b> <i>Co-Founder and Director, Center for Textual Studies and Digital Humanities</i>	<b>Chicago, IL</b> 2010–2015
<b>Northwestern University</b> <i>Visiting Scholar, Electrical Engineering and Computer Science</i>	<b>Argonne, IL</b> 2012–2014
<b>Loyola University Chicago</b> <i>Associate Professor of Computer Science</i>	<b>Chicago, IL</b> 2014–2010
<b>Loyola University Chicago</b> <i>Visiting Associate Professor of Computer Science</i>	<b>Chicago, IL</b> 2001–2004
<b>Northwestern University</b> <i>Visiting Scholar</i>	<b>Evanston, IL</b> 1999–2008
<b>DePaul University</b> <i>Assistant Professor of Computer Science</i>	<b>Chicago, IL</b> 1999–2000
<b>Loyola University Chicago</b> <i>Visiting Assistant Professor of Computer Science</i>	<b>Chicago, IL</b> 1998–1999
<b>Illinois Institute of Technology</b> <i>Lecturer of Computer Science</i>	<b>Chicago, IL</b> 1996–1997

## Industry Positions

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<b>Nimkathana Corporation</b> <i>President and CEO</i>	<b>Chicago, IL</b> 2002–2004
<b>R.R. Donnelley and Sons</b> <i>Development Manager</i>	<b>Lisle, IL</b> 1995–1996
<b>R.R. Donnelley and Sons Technical Center</b> <i>Senior Member of Technical Staff</i>	<b>Lisle, IL</b> 1993–1995

**Tellabs, Inc.**  
*Member of Technical Staff*

**Lisle, IL**  
1991–1993

## Academic Preparation

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**Argonne National Laboratory**  
*Postdoctoral Computer Scientist*

**Argonne, IL**  
1996–1998

**Illinois Insitute of Technology**  
*Ph.D., Computer Science*

**Chicago, IL**  
1990–1995

**Doctoral Dissertation** *Actors based computations on parallel computers.*

**Illinois Institute of Technology**  
*M.S, Computer Science*

**Chicago, IL**  
1988–1990

**Lewis University**  
*B.S., Computer Science and Physics Majors; Mathematics Minor*

**Romeoville, IL**  
1986–1988

## Academic Recognition

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**Loyola University Chicago**  
*Teaching Excellence Award*

2009

**Illinois Institute of Technology**  
*Teaching and Research Assistantships*

**Chicago, IL**  
1988–1994

**Argonne National Laboratory**  
*Graduate Lab Fellow, Environmental and Information Systems Division*

**Argonne, IL**  
1989–1990

**Lewis University**  
*Sigma Pi Sigma National Honor Society*

1988

## Funding

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**Agencies**.....

**NSF CNS-1738691:** Co-PI, Co-PI, Collaborative Research: Chicago Alliance for Equity in Computer Science, \$72,497, 2017-2021

**NSF OAC-1445347:** Co-PI, EAGER: Collaborative Research: Making Software Engineering Work for Computational Science and Engineering: An Integrated Approach, \$109,598, 2014-2018

**NSF CCF-0444197:** Co-PI, Co-PI, Collaborative Proposal: Ultra-Scalable System Software and Tools for Data-Intensive Computing, \$72,433, 2004-2007

**NSF CNS-0205652:** PI, ITR: The Community Information Technology Entrepreneurship Project, \$1,034,500, 2002-2006

**NSF CNS-10423372:** Co-PI, Collaborative Research: BPC-LSA: ACM SIGBP: Forming an ACM Special Interest Group to Scale the Impact of BPC Activities, \$38,782, 2010-2014

**NEH HD-50782-09:** Co-Director, Humanities Research Infrastructure and Tools (HRIT): An Environment for Collaborative Textual Scholarship, \$50,000, 2009-2010

**NSF CNS-0837769:** Co-PI, Improving Metropolitan Participation to Accelerate Computing Throughput and Success (IMPACTS), \$141,711, 2008-2009

**NSF DBI-0552888:** Co-PI, REU Site: Integrated Cross-Disciplinary Summer Program in Bioinformatics, \$292,412, 2006-2010

**NSF OAC-0228926:** Co-PI, HPNC: HPNC for Science Research at Loyola University Chicago, \$150,000, 2002-2005

#### University Funding.....

**Office of Research Services:** PI, Research Stimulation: Chicago Clean Air/Clean Water, \$20,000, 2009-2010

**Office of Research Services:** Co-PI, Research Stimulation: Modernist Circles/Textual Studies, \$20,000, 2009-2010

#### Gifts.....

**4C Insights:** PI, Unrestricted gift to support systems research at Loyola, \$10,000, 2017

**Typesafe:** Co-PI, Unrestricted gift to support languages/systems research at Loyola, \$5,000, 2015

**Microsoft:** PI, Unrestricted gift to support HPC and Bioinformatics Research, \$15,000, 2009

**Microsoft:** PI, In-kind equipment donation of computational cluster (80 nodes), \$100,000, 2009

**HP:** Co-PI, Learning the Wonders of Computing with Wireless Collaboration, \$68,000, 2007

**Hostway Corporation:** PI, Unrestricted gift to support creation of open source laboratory, \$30,000, 2005

## Books

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George K. Thiruvathukal, John P. Shafae, and Thomas W. Christopher (2002). *Web Programming: Techniques for Integrating Python, Linux, Apache, and MySQL*. English. OCLC: 48223509. Upper Saddle River, NJ: Prentice Hall. ISBN: 978-0-13-041065-8.

Jeffrey Carver, Neil P. Chue Hong, and George K. Thiruvathukal (2017). *Software Engineering for Science*. English. OCLC: 965767331. Taylor & Francis/CRC Press. ISBN: 978-1-4987-4385-3.

Steven E. Jones and George K. Thiruvathukal (2012). *Codename Revolution: The Nintendo Wii Platform (Platform Studies)*. Undetermined. OCLC: 939783644. MIT Press.

Thomas W Christopher and George K. Thiruvathukal (2000). *High Performance Java Computing: Multi-Threaded and Networked Programming*. English. OCLC: 80809707. Prentice Hall PTR and Sun Microsystems Press. ISBN: 978-0-13-016164-2.

## Conference Papers

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Adrienne Decker, Jamie Payton, Kurt Eiselt, Tiffany Barnes, and George K. Thiruvathukal (2016). "Research on Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT) RESPECT 2016". English. In: OCLC: 1010104164. Piscataway, NJ: IEEE. ISBN: 978-1-5090-3419-2 978-1-5090-3420-8. (Visited on 01/07/2018).

- David B. Dennis and George K. Thiruvathukal (2017). "Computer Science and Cultural History: A Dialogue". In: *CESTEMER Conference: Cultivating Ensembles in STEM Education and Research*.
- George K. Thiruvathukal, Steven E. Jones, and Peter Shillingsburg (2010). "E-Carrel: An Environment for Collaborative Textual Scholarship". English. In: OCLC: 861088135. The University of Chicago. (Visited on 01/07/2018).
- George K. Thiruvathukal and Thomas W. Christopher (1991). "A Simulation of Demand-driven Dataflow: Translation from Lucid into MDC language". No Linguistic Content. In: *International Parallel Processing Symposium*. OCLC: 5872168706, pp. 634–637.
- Jeffrey Carver and George Thiruvathukal (2013). "Software Engineering Need not be Difficult". Undetermined. In: *WSSSE 2013*. OCLC: 947415187. Figshare.
- Joe P. Kaylor, Konstantin Läufer, and George K Thiruvathukal (2010). "Online Layered File System (OLFS): A layered and versioned filesystem and performance analysis". No Linguistic Content. In: *IEEE International Conference on Electro/Information Technology (EIT 2010)*. OCLC: 4801591823, pp. 1–9.
- Joe P. Kaylor, Konstantin Läufer, and George K. Thiruvathukal (2012). "Simplifying Domain Modeling and Memory Management in User-Mode Filesystems with the NOFS Framework". English. In: *International Conference on Electro Information Technology 2012*. OCLC: 805159751.
- Joe P. Kaylor, Konstantin Läufer, and George Thiruvathukal (2011). "RestFS: Resources are Filesystems, too". No Linguistic Content. In: *Second International Workshop / RESTful Design (WS-REST '11)*. OCLC: 4771199047. ACM, 2 Penn Plaza, Suite 701, New York, NY 10121-0701, USA. ISBN: 978-1-4503-0623-2.
- Kent Gauen, Ryan Dailey, John Laiman, Yuxiang Zi, Nirmal Asokan, Yung-Hsiang Lu, George K Thiruvathukal, Mei-Ling Shyu, and Shu-Ching Chen (2017). "Comparison of Visual Datasets for Machine Learning". No Linguistic Content. In: *IEEE Conference on Information Reuse and Integration 2017*. OCLC: 7252113228, pp. 346–355.
- Mark Lewis, Konstantin Läufer, and George K. Thiruvathukal (2013). "Using Scala strategically across the undergraduate curriculum (abstract only)". No Linguistic Content. In: *44th ACM technical symposium / Computer science education (SIGCSE '13)*. OCLC: 4959125145. ACM, 2 Penn Plaza, Suite 701, New York, NY 10121-0701, USA. ISBN: 978-1-4503-1868-6.
- Mark Lewis, Konstantin Läufer, and George K. Thiruvathukal (2014). "Scala for Introductory CS and Parallelism (Workshop)". No Linguistic Content. In: *45th ACM technical symposium / Computer science education (SIGCSE '14)*. OCLC: 5564283894. ACM, 2 Penn Plaza, Suite 701, New York, NY 10121-0701, USA. ISBN: 978-1-4503-2605-6.
- Matt Bone, Peter F. Nabicht, Konstantin Laufer, and George K. Thiruvathukal (2008). "Taming XML: Objects First, Then Markup". No Linguistic Content. In: *IEEE International Conference on Electro/Information Technology (EIT 2008)*. OCLC: 4801515151, pp. 488–493.
- Mike Lewis, George K. Thiruvathukal, Venkatram Vishwanath, Michael Papka, and Andrew Johnson (2017). "A Distributed Graph Approach for Pre-processing Linked RDF Data Using Supercomputers". No Linguistic Content. In: *Workshop on Semantic Big Data (SBD 2018) at ACM SIGMOD*. OCLC: 7080632153. ACM, 2 Penn Plaza, Suite 701, New York, NY 10121-0701, USA. ISBN: 978-1-4503-4987-1.

- Tiffany Barnes, George K. Thiruvathukal, Kristy Elizabeth Boyer, Jeff Forbes, and Jamie Payton (2015). "Proceedings of 2015 Research on Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT) RESPECT 2015". English. In: *Research on Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT) RESPECT 2015*. OCLC: 1013950588. (Visited on 01/07/2018).
- Wei-Keng Liao, Alok Choudhary, Kenin Coloma, George K. Thiruvathukal, Lee Ward, Eric Russell, and Neil Pundit (2003). "Scalable Implementations of MPI Atomicity for Concurrent Overlapping I/O". English. In: *International Conference on Parallel Processing*. OCLC: 108941974, pp. 239–248.
- William L. Honig, Konstantin Laufer, and George K. Thiruvathukal (2015). "A Framework Architecture for Student Learning in Distributed Embedded Systems". No Linguistic Content. In: *10th IEEE International Symposium on Industrial Embedded Systems (SIES)*. OCLC: 5894647244, pp. 1–4.
- William T. O'Connell, George K. Thiruvathukal, and Thomas W. Christopher (1994a). "Distributed Memo: A Heterogeneously Distributed and Parallel Software Development Environment". English. In: *International Conference on Parallel Processing*. Vol. 2. OCLC: 5606618332, pp. II57–II64.
- William T. O'Connell, George K. Thiruvathukal, and Thomas W. Christopher (1994b). "Distributed Memo: A Heterogeneously Parallel and Distributed Software Programming Environment". English. In: *International Conference on Parallel Processing*. OCLC: 107041655, p. II.
- X. Shen, G.K. Thiruvathukal, W. Liao, A. Choudhary, A. Singh, and Proceedings Fourth International Conference/Exhibition on High Performance Computing in the Asia-Pacific Region (2000). "A Java graphical user interface for large-scale scientific computations in distributed systems". No Linguistic Content. In: *Fourth International Conference on High-Performance Computing in the Asia-Pacific Region*. Vol. 1. OCLC: 4799040574, 478–484 vol.1.
- X. Shen, W. Liao, A. Choudhary, G. Memik, M. Kandemir, S. More, G.K. Thiruvathukal, and A. Singh (2000). "A Novel Application Development Environment for Large-scale Scientific Computations". No Linguistic Content. In: *Proceedings of the International Conference on Supercomputing*. OCLC: 5853530041. ACM, 2 Penn Plaza, Suite 701, New York, NY 10121-0701, USA. ISBN: 978-1-58113-270-0.

## Ph.D. Dissertation

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- George K. Thiruvathukal (1995). "An Enhanced Actors Model and Programming Environment for Parallel and Distributed Processing". English. OCLC: 36073344. PhD thesis.

## Journal Articles

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- George K. Thiruvathukal, Lovely S. Thomas, and Andrew T. Korczynski (1998). "Reflective Remote Method Invocation". English. In: *Concurrency: Pract. Exper. Concurrency: Practice and Experience* 10.11-13. OCLC: 6003809975, pp. 911–925. ISSN: 1040-3108.
- George K. Thiruvathukal, Phil M. Dickens, and Shahzad Bhatti (2000). "Java on Networks of Workstations (JavaNOW): A Parallel Computing Framework Inspired by Linda and the Message

- Passing Interface (MPI)". English. In: *Concurrency, practice and experience*. 12. OCLC: 106132964, pp. 1093–1116. ISSN: 1040-3108.
- Gregor von Laszewski, George K. Thiruvathukal, and Ian Foster (2000). "Making Large-Scale Telemedicine Work: A Computational Infrastructure for Telemedicine." English. In: *Future Generation Computing Systems (Elsevier)* 79. OCLC: 122061758, pp. 195–213. ISSN: 0926-9630.
- Gregory J. Matthews, George K. Thiruvathukal, Matthew P. Luetkemeier, and Juliet K. Brophy (2017). "Examining the Use of Amazon's Mechanical Turk for Edge Extraction of the Occlusal Surface of Fossilized Bovid Teeth." English. In: *PLOS ONE* 12.7. OCLC: 7088350798.
- Ian Foster, George K. Thiruvathukal, and Steven Tuecke (1997). "Technologies for Ubiquitous Supercomputing: A Java Interface to the Nexus Communication System". English. In: *Concurrency: Practice and Experience*. 9.6. OCLC: 105888653, p. 465. ISSN: 1040-3108.
- Ian Foster, Gregor von Laszewski, George K. Thiruvathukal, and Brian Toonen (1998). "A Computational Framework for Telemedicine". English. In: *Future Generation Computer Systems Future Generation Computer Systems* 14.1-2. OCLC: 4639272165, pp. 109–123. ISSN: 0167-739X.
- Ian Foster, Jonathan Geisler, William Gropp, Nicholas Karonis, Ewing Lusk, George K. Thiruvathukal, and Steven Tuecke (1998). "Wide-Area Implementation of the Message Passing Interface". English. In: *Journal of Parallel Computing* 24.12. OCLC: 91625919, p. 1735. ISSN: 0167-8191.
- Steven Reisman, Thomas Hatzopoulos, Konstantin Läufer, George K. Thiruvathukal, and Catherine Putonti (2016). "A Polyglot Approach to Bioinformatics Data Integration: A Phylogenetic Analysis of HIV-1". English. In: *Evolutionary Bioinformatics* 12.6. OCLC: 5974711951, EBO.S32757. ISSN: 1176-9343.
- William T. O'Connell, George K. Thiruvathukal, and Thomas W. Christopher (1997). "Distributed Memo: Heterogeneously Concurrent Programming with a Shared Directory of Unordered Queues". English. In: *International Journal of Computers and Applications* 19.2. OCLC: 204632063, pp. 115–122. ISSN: 1206-212X.

## Other Magazines and Journals

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- Andy Terrel, Michael Tobis, and George K. Thiruvathukal (2015). "Scientific Software Communities". English. In: *Computing in Science and Engineering* 17.1. OCLC: 5988215620, pp. 8–10. ISSN: 1521-9615.
- Bill Feiereisen and George K. Thiruvathukal (2008). "At Issue". English. In: *Computing in Science and Engineering* 10.2. OCLC: 222595476, pp. 60–64. ISSN: 1521-9615.
- Dejan Milojevic, Martin Arlitt, Doree D. Seligmann, George K. Thiruvathukal, and Christian Timmerer (2012). "Innovation Mashups: Academic Rigor Meets Social Networking Buzz". English. In: *Computer* 45.9. OCLC: 812302890, pp. 101–105. ISSN: 0018-9162.
- George F. Hurlburt, George K. Thiruvathukal, and Maria R. Lee (2017). "The Graph Database: Jack of All Trades or Just Not SQL?" English. In: *IT Professional* 19.6. OCLC: 7260159310, pp. 21–25. ISSN: 1520-9202.
- George K. Thiruvathukal. "Cloudy with a Chance of Sunshine, or the Future of Magazine Publishing (Article, 2015) [WorldCat.Org]". In: *Computing in Science and Engineering*.

- George K. Thiruvathukal (2004a). "Gentoo Linux: The next Generation of Linux". English. In: *Computing in Science and Engineering* 6.5. OCLC: 4653224318, pp. 66–74. ISSN: 1521-9615.
- George K. Thiruvathukal (2004b). "XML and Computational Science". English. In: *Computing in Science and Engineering* 6. OCLC: 109243669, pp. 74–80. ISSN: 1521-9615.
- George K. Thiruvathukal (2005a). "Cluster Computing". English. In: *Computing in Science and Engineering* 7.2. OCLC: 108901172, pp. 11–13. ISSN: 1521-9615.
- George K. Thiruvathukal (2005b). "Guest Editors' Introduction: Cluster Computing". English. In: *Computing in Science and Engineering* 7.2. OCLC: 4653225066, pp. 11–13. ISSN: 1521-9615.
- George K. Thiruvathukal (2006). "Home Networking". English. In: *Computing in Science and Engineering* 8.1. OCLC: 108151466, pp. 84–91. ISSN: 1521-9615.
- George K. Thiruvathukal (2007). "Project Hosting: Expanding the Scientific Programmer's Toolbox". English. In: *Computing in Science and Engineering* 9.2. OCLC: 123726407, pp. 70–75. ISSN: 1521-9615.
- George K. Thiruvathukal (2008). "If We Build It, Will They Come?" English. In: *Computing in Science and Engineering* 10.2. OCLC: 281358353, pp. 62–64. ISSN: 1521-9615.
- George K. Thiruvathukal (2009a). "Computational Thinking ... and Doing". English. In: *Computing in Science and Engineering* 11.6. OCLC: 488931393, pp. 4–4. ISSN: 1521-9615.
- George K. Thiruvathukal (2009b). "From the Editors: Computational Thinking ... and Doing". English. In: *Computing in Science and Engineering* 11.6. OCLC: 475577575. ISSN: 1521-9615.
- George K. Thiruvathukal (2009c). "Introducing Computing Now". English. In: *Computing in Science and Engineering* 11.4. OCLC: 429056990, pp. 8–10. ISSN: 1521-9615.
- George K. Thiruvathukal (2010). "Your Local Cloud-Enabled Library". English. In: *Computing in Science and Engineering* 12.4. OCLC: 647287348, pp. 5–6. ISSN: 1521-9615.
- George K. Thiruvathukal (2011a). "Beyond CiSE and Back to the Future". English. In: *Computing in Science and Engineering* 13.3. OCLC: 724235085, pp. 4–5. ISSN: 1521-9615.
- George K. Thiruvathukal (2011b). "Books [reviews of "Networks, Crowds, and Markets: Reasoning about a Highly-Connected World; Easley, D. and Kleinberg, J.; 2010 and "Introduction to High Performance Computing for Scientists and Engineers"; Hager, G. and Wellein, G.; 2011)". No Linguistic Content. In: *Computing in Science and Engineering* 13.1. OCLC: 5872681824, pp. 5–8. ISSN: 1521-9615.
- George K. Thiruvathukal (2012a). "Accelerating Learning with Distance Education and Open Courseware". English. In: *Computing in Science and Engineering* 14.4. OCLC: 805167671, pp. 4–5. ISSN: 1521-9615.
- George K. Thiruvathukal (2012b). "Digging into Data". English. In: *Computing in Science and Engineering* 14.2. OCLC: 781732892, pp. 4–5. ISSN: 1521-9615.
- George K. Thiruvathukal (2013a). "Computational Science, Demystified - the Future, Revealed and CiSE, 2013". English. In: *Computing in Science and Engineering* 15.2. OCLC: 835261697, pp. 4–5. ISSN: 1521-9615.

- George K. Thiruvathukal (2013b). "Productivity in the Cognitive Overload Era". English. In: *Computing in Science and Engineering* 15.3. OCLC: 854734433, pp. 4–5. ISSN: 1521-9615.
- George K. Thiruvathukal (2013c). "What's in an Algorithm?". English. In: *Computing in Science and Engineering* 15.4. OCLC: 5364341615, pp. 4–5. ISSN: 1521-9615.
- George K. Thiruvathukal (2013d). "Who Needs Tablets? We Do". English. In: *Computing in Science and Engineering* 15.1. OCLC: 827294697, pp. 4–6. ISSN: 1521-9615.
- George K. Thiruvathukal (2014). "What We Publish in CiSE". English. In: *Computing in Science and Engineering* 16.2. OCLC: 5578301261, pp. 4–6. ISSN: 1521-9615.
- George K. Thiruvathukal (2015a). "The All-Digital Future and Digital CiSE". English. In: *Computing in Science and Engineering* 17.3. OCLC: 6001217312, pp. 4–5. ISSN: 1521-9615.
- George K. Thiruvathukal (2015b). "The Next Generation of Computational Science and Engineering". English. In: *Computing in Science and Engineering* 17.1. OCLC: 5988215419, pp. 4–5. ISSN: 1521-9615.
- George K. Thiruvathukal (2016a). "Beyond Pythagoras". In: *EdTech Digest*.
- George K. Thiruvathukal (2016b). "El Fin". English. In: *Computing in Science and Engineering* 18.6. OCLC: 6884832554, pp. 4–6. ISSN: 1521-9615.
- George K. Thiruvathukal (2016c). "How AI Is Bringing Hollywood to Life". In: *VentureBeat*.
- George K. Thiruvathukal and Konstantin Läufer (2004a). "Natural XML for Data Binding, Processing, and Persistence". English. In: *Computing in Science and Engineering* 6. OCLC: 109493619, pp. 86–92. ISSN: 1521-9615.
- George K. Thiruvathukal and Konstantin Läufer (2004b). "Plone and Content Management". English. In: *Computing in Science and Engineering* 6.4. OCLC: 4653224037, pp. 88–95. ISSN: 1521-9615.
- George K. Thiruvathukal and Konstantin Läufer (2008). "What I Did on My Summer Vacation". English. In: *Computing in Science and Engineering* 10.6. OCLC: 347691907, pp. 76–81. ISSN: 1521-9615.
- George K. Thiruvathukal, Konstantin Läufer, and Benjamin Gonzalez (2006). "Unit Testing Considered Useful". English. In: *Computing in Science and Engineering* 8.6. OCLC: 109718908, pp. 76–87. ISSN: 1521-9615.
- George K. Thiruvathukal, Konstantin Läufer, Joe P. Kaylor, and Konrad Hinsén (2010). "Virtualization for Computational Scientists". English. In: *Computing in Science and Engineering* 12.4. OCLC: 647287361, pp. 52–61. ISSN: 1521-9615.
- Joe P. Kaylor and George K. Thiruvathukal (2008). "A Virtual Computing Laboratory". English. In: *Computing in Science and Engineering* 10.2. OCLC: 281358356, pp. 65–69. ISSN: 1521-9615.
- K Läufer, G.K Thiruvathukal, R Nishimura, and C.R Martínez-Eiroa (2009). "Putting a Slug to Work". English. In: *Computing in Science and Engineering* 11.2. OCLC: 317770034, pp. 62–68. ISSN: 1521-9615.



- Konrad Hinsien, Konstantin Läufer, and George K. Thiruvathukal (2009). "Essential Tools: Version Control Systems". English. In: *Computing in Science and Engineering* 11.6. OCLC: 488931400, pp. 84–91. ISSN: 1521-9615.
- Konstantin Läufer, George K. Thiruvathukal, and Benjamin Gonzalez (2007). "A Hike through a Post-EJB J2EE Web Application Architecture, Part III". No Linguistic Content. In: *Computing in Science and Engineering* 9.1. OCLC: 4798775077. ISSN: 1521-9615.
- Laufer, K and G. K Thiruvathukal (2009). "Scientific Programming: The Promises of Typed, Pure, and Lazy Functional Programming: Part II". English. In: *Computing in Science and Engineering* 11.5. OCLC: 478674610, pp. 68–75. ISSN: 1521-9615.
- Laufer, Konstantin, George K. Thiruvathukal, and David B. Dennis (2011). "Moving Academic Department Functions to Social Networks and Clouds: Initial Experiences". English. In: *Computing in Science and Engineering* 13.5. OCLC: 752178169, pp. 84–89. ISSN: 1521-9615.
- Lorena A. Barba and George K. Thiruvathukal (2017). "Reproducible Research for Computing in Science & Engineering". English. In: *Computing in Science and Engineering* 19.6. OCLC: 7279925859, pp. 85–87. ISSN: 1521-9615.
- Manish Parashar and George K. Thiruvathukal (2014). "Extreme Data [Guest Editors' Introduction]". English. In: *Computing in Science and Engineering* 16.4. OCLC: 5705752119, pp. 8–10. ISSN: 1521-9615.
- Thiruvathukal G.K and Parashar M (2013). "Cloud Computing [Guest Editors' Introduction]". English. In: *Computing in Science and Engineering* 15.4. OCLC: 5364341616, pp. 8–9. ISSN: 1521-9615.
- Tiffany Barnes and George K. Thiruvathukal (2015). "Broadening Participation and RESPECT". English. In: *ACM SIGCSE Bulletin* 47.1. OCLC: 5735491956, p. 7. ISSN: 0097-8418.
- Tiffany Barnes and George K. Thiruvathukal (2016). "The Need for Research in Broadening Participation". English. In: *Communications of the ACM* 59.3. OCLC: 6899348365, pp. 33–34. ISSN: 0001-0782.
- Tiffany Barnes and George Thiruvathukal (2015). "Broadening participation and RESPECT: join our new professional organization and conference!" No Linguistic Content. In: *ACM SIGCSE Bulletin* 47.1. OCLC: 5789807775, pp. 01–28. ISSN: 0097-8418.
- Tiffany Barnes, Jamie Payton, George K. Thiruvathukal, Kristy Elizabeth Boyer, and Jeffrey Forbes (2016). "Best of RESPECT, Part 2". English. In: *Computing in Science and Engineering* 18.3. OCLC: 6198619744, pp. 11–13. ISSN: 1521-9615.
- Volodymyr Kindratenko, George K Thiruvathukal, and Steven Gottlieb (2008). "High-Performance Computing Applications on Novel Architectures". No Linguistic Content. In: *Computing in Science and Engineering* 10.6. OCLC: 4798664942, pp. 13–15. ISSN: 1521-9615.

## Technical Reports and Presentations

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- George K Thiruvathukal (2003). *Ad Hoc Human Information Nets for Asymmetric Threat Surveillance*. English. Tech. rep. OCLC: 74250904. Ft. Belvoir: Defense Technical Information Center. (Visited on 01/07/2018).

George K. Thiruvathukal and Ufuk Verun (2015). *Apt Compiler Toolkit (Legacy Document)*. Undetermined. Tech. rep. OCLC: 947603893. Figshare.

Jeffrey Carver and George K. Thiruvathukal (2016). *Collaborative Research: Making Software Engineering Work for Computational Science & Engineering: An Integrated Approach*. Undetermined. Tech. rep. OCLC: 947633893. Figshare.

Konstantin Läufer and George K. Thiruvathukal. *Teaching Concurrent Software Design: A Case Study Using Android*. Technical Report.

Konstantin Läufer, Mark Lewis, and George K. Thiruvathukal. *Experiences with Scala Across the College-Level Curriculum*.

## Service

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### University Service.....

- *Chair*, Search Committee, Computer Science Hire in Data Science, 2013
- *Member*, Faculty Council, 2012-2014
- *Member*, Search Committee, School of Communication, 2009
- *Member*, Search Committee, Non-Tenure Track Position in Digital Humanities, 2010

### Departmental Service.....

- *Director*, Computer Science Labs and Infrastructure, 2003-Present
- *Faculty Advisor*, Free/Open Source Software at Loyola Student Organization, 2008-2010
- *Faculty Advisor*, Loyola Technology and Entrepreneurship Student Organization (LuTech), 2015-2017
- *Chair*, Undergraduate Curriculum Committee
- *Co-Chair*, Faculty Evaluation/Appraisal Committee, AY 2012-Present
- *Undergraduate Program Director*, 200X
- *Graduate Program Director*, 200Y and 201Z

### Panel Service.....

- *Panelist*, National Science Foundation, CISE and Cyberinfrastructure
- *Panelist*, National Endowment for the Humanities, Office of Digital Humanities

### Conference Committees.....

- *Co-General Chair*, RESPECT 2018
- *Tutorials Chair*, RESPECT 2016
- *Co-Program Chair*, RESPECT 2015
- *Program Committee Member*, The 25th International Symposium on Computer Architecture and High Performance Computing
- *Program Chair*, Chicago Colloquium on Digital Humanities in Computer Science 2011
- *Program Committee Member*, ICSOFT 2009 and 2010
- *Program Committee Member*, IEEE Cloud Computing 2010
- *Organizing Committee Member*, ACM Symposium on Structured Document Engineering 2005
- *Program Committee Member*, IPDPS Workshop on Java for High-Performance Computing, 1999-2005

- *Program Committee Member*, ACM Symposium on Structured Document Engineering, 2002-2004
- *Program Committee Member*, High-Performance Computing and Networking (HPCN), 2001
- *Co-Chair*, High-Performance Computing and Networking (HPCN) Workshop on Java, 2001
- *Tutorials Program Committee*, SC 2000, 2000
- *Program Committee and Registration Chair*, ACM Java Grande, 1998

**Editorial Boards/Professional Society Service.....**

- *Magazine Operations Chair*, IEEE Computer Society, 2017-2018
- *Department and Track Editor*, Reproducible Research, CISE Magazine, 2017-Present
- *Department and Track Editor*, Data\*, CISE Magazine, 2017-Present
- *Associate Editor in Chief*, Computer Magazine, 2016-Present
- *Editor in Chief*, Computing in Science and Engineering, 2013-
- *Associate Editor*, IEEE Computing Now, 2008-2014
- *Associate Editor*, CISE Magazine, 2008-2012
- *Department Editor*, Scientific Programming, CISE Magazine, 2004-2013
- *Secretary General*, Java Grande Forum, 1997-2000