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Academic Appointments

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

Industry Positions

Nimkathana Corporation <i>President and CEO</i>	Chicago, IL <i>2002–2004</i>
R.R. Donnelley and Sons <i>Development Manager</i>	Lisle, IL <i>1995–1996</i>
R.R. Donnelley and Sons Technical Center <i>Senior Member of Technical Staff</i>	Lisle, IL <i>1993–1995</i>
Tellabs, Inc. <i>Member of Technical Staff</i>	Lisle, IL <i>1991–1993</i>

Student Research Experiences/Internships

Argonne National Laboratory <i>Graduate Lab Fellow, Environmental and Information Systems Division</i>	Argonne, IL <i>1989–1991</i>
Argonne National Laboratory <i>Cooperative Education Program, Physics Division</i>	Argonne, IL <i>1989–1990</i>

Academic Preparation

Argonne National Laboratory <i>Postdoctoral Computer Scientist</i>	Argonne, IL 1996–1998
Illinois Institute of Technology <i>Ph.D., Computer Science</i> Doctoral Dissertation <i>Actors based computations on parallel computers.</i>	Chicago, IL 1990–1995
Illinois Institute of Technology <i>M.S., Computer Science</i>	Chicago, IL 1988–1990
Lewis University <i>B.S., Computer Science and Physics Majors; Mathematics Minor</i>	Romeoville, IL 1986–1988

Academic Recognition

Loyola University Chicago <i>Teaching Excellence Award</i>	Chicago, IL 2009
Illinois Institute of Technology <i>Teaching and Research Assistantships</i>	Chicago, IL 1988–1994
Lewis University <i>Induction to Sigma Pi Sigma Physics National Honor Society</i>	Romeoville, IL 1988
Lewis University <i>Top Graduate, College of Arts and Sciences, Class of 1988</i>	Romeoville, IL 1988
Lewis University <i>Top Department Graduate, Computer Science Department, Class of 1988</i>	Romeoville, IL 1988

Funding

Research Awards/Grants

NSF OAC-2027514: Senior Personnel/Consultant, Collaborative: RAPID: Leveraging New Data Sources to Analyze the Risk of COVID-19 in Crowded Locations, \$50,000, 2020–2021

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

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

NSF CCF-0444197: 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

Google: Co-PI, Google Research Awards, Machine Perception, \$75,000, 2017

DARPA SBIR Phase I: PI, Ad Hoc Human Interaction Networks for Asymmetric Threat Surveillance, \$100,000, 2002

DARPA SBIR Phase I: Co-PI, Cluster Based Repositories and Analysis, \$100,000, 2003

University Funding

Office of Research Services: PI, Autonomous Vehicle Security, \$5,000, 2019-2020

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

Google: PI, Unrestricted gift to support machine learning and software engineering research at Loyola, \$30,000, 2019

Facebook Research: PI, Unrestricted gift to support low-power computer vision and reproducibility research at Loyola, \$30,000, 2020

Google Research Awards: PI, \$75,000, 2017

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

- [1] Jeffrey Carver, Neil P. Chue Hong, and George K. Thiruvathukal. *Software Engineering for Science*. Taylor & Francis/CRC Press, 2017. ISBN: 978-1-4987-4385-3. URL: https://ecommons.luc.edu/cs_facpubs/128/.
- [2] Steven E. Jones and George K. Thiruvathukal. *Codename Revolution: The Nintendo Wii Platform (Platform Studies)*. MIT Press, 2012. ISBN: 978-0-26-201680-3. URL: <https://mitpress.mit.edu/books/codename-revolution>.
- [3] George K. Thiruvathukal, John P. Shafae, and Thomas W. Christopher. *Web Programming: Techniques for Integrating Python, Linux, Apache, and MySQL*. Upper Saddle River, NJ: Prentice Hall, 2002. ISBN: 978-0-13-041065-8.
- [4] Thomas W. Christopher and George K. Thiruvathukal. *High Performance Java Computing: Multi-Threaded and Networked Programming*. Prentice Hall PTR and Sun Microsystems Press, 2000. ISBN: 978-0-13-016164-2. URL: https://ecommons.luc.edu/cs_facpubs/3/.

Journal Articles

- [1] Dario Dematties, Silvio Rizzi, George K. Thiruvathukal, Mauricio David Pérez, Alejandro Wainseboim, and B. Silvano Zanutto. "A Computational Theory for the Emergence of Grammatical Categories in Cortical Dynamics". In: *Frontiers in Neural Circuits* 14 (2020), p. 12. ISSN: 1662-5110. DOI: 10.3389/fncir.2020.00012. URL: <https://www.frontiersin.org/article/10.3389/fncir.2020.00012>.
- [2] Dario Dematties, Silvio B. Rizzi, and George K. Thiruvathukal. "Towards High-End Scalability on Bio-Inspired Computational Models". In: (Aug. 2020). DOI: 10.6084/m9.figshare.12762260.v2. URL: https://ecommons.luc.edu/cs_facpubs/253/.
- [3] Sergei Alyamkin, Matthew Ardi, Alexander C. Berg, Achille Brighton, Bo Chen, Yiran Chen, Hsin-Pai Cheng, Zichen Fan, Chen Feng, Bo Fu, Kent Gauen, Abhinav Goel, Alexander Goncharenko, Xuyang Guo, Soonhoi Ha, Andrew Howard, Xiao Hu, Yuanjun Huang, Donghyun Kang, Jaeyoun Kim, Jong Gook Ko, Alexander Kondratyev, Junhyeok Lee, Seungjae Lee, Suwoong Lee, Zichao Li, Zhiyu Liang, Juzheng Liu, Xin Liu, Yang Lu, Yung-Hsiang Lu, Deeptanshu Malik, Hong Hanh Nguyen, Eunbyung Park, Denis Repin, Liang Shen, Tao Sheng, Fei Sun, David Svitov, George K. Thiruvathukal, Baiwu Zhang, Jingchi Zhang, Xiaopeng Zhang, and Shaojie Zhuo. "Low-Power Computer Vision: Status, Challenges, and Opportunities". In: *IEEE Journal on Emerging and Selected Topics in Circuits and Systems* 9.2 (June 2019), pp. 411–421. ISSN: 2156-3365. DOI: 10.1109/JETCAS.2019.2911899. URL: http://ecommons.luc.edu/cs_facpubs/217.
- [4] Juliet K. Brophy, Gregory J. Matthews, and George K. Thiruvathukal. "An Analysis of the Effect of Tooth Wear on Bovine Identification". In: *South African Journal of Science* 115 (July 2019). DOI: 10.17159/sajs.2019/5496. URL: <https://www.sajs.co.za/article/view/5496>.
- [5] Dario Dematties, Silvio B. Rizzi, George K. Thiruvathukal, Alejandro Wainseboim, and B. Silvano Zanutto. "Phonetic Acquisition in Cortical Dynamics, a Computational Approach". In: *PLOS ONE* 14.6 (June 2019), pp. 1–28. DOI: 10.1371/journal.pone.0217966. URL: <https://doi.org/10.1371/journal.pone.0217966>.

- [6] Gregory J. Matthews, Juliet K. Brophy, Hongie Gu, Maxwell P. Luetkemeier, and George K. Thiruvathukal. "A Comparison of Machine Learning Techniques for Taxonomic Classification of Teeth from the Family Bovidae". In: *Journal of Applied Statistics* 45.15 (2018), pp. 2773–2787. DOI: 10.1080/02664763.2018.1441381. URL: <https://doi.org/10.1080/02664763.2018.1441381>.
- [7] Gregory J. Matthews, George K. Thiruvathukal, Matthew P. Luetkemeier, and Juliet K. Brophy. "Examining the Use of Amazon's Mechanical Turk for Edge Extraction of the Occlusal Surface of Fossilized Bovid Teeth." In: *PLOS ONE* 12.7 (2017). URL: https://ecommons.luc.edu/cs_facpubs/150/.
- [8] Steven Reisman, Thomas Hatzopoulos, Konstantin L  ufer, George K. Thiruvathukal, and Catherine Putonti. "A Polyglot Approach to Bioinformatics Data Integration: A Phylogenetic Analysis of HIV-1". In: *Evolutionary Bioinformatics* 12 (2016). PMID: 26819543, EBO.S32757. DOI: 10.4137/EB0.S32757. eprint: <https://doi.org/10.4137/EB0.S32757>. URL: <https://doi.org/10.4137/EB0.S32757>.
- [9] Gregor von Laszewski, George K. Thiruvathukal, and Ian Foster. "Making Large-Scale Telemedicine Work: A Computational Infrastructure for Telemedicine." In: *Future Generation Computing Systems (Elsevier)* 79 (2000), pp. 195–213. ISSN: 0926-9630.
- [10] George K. Thiruvathukal, Phil M. Dickens, and Shahzad Bhatti. "Java on Networks of Workstations (JavaNOW): A Parallel Computing Framework Inspired by Linda and the Message Passing Interface (MPI)". In: *Concurrency: Practice and Experience* 12 (2000), pp. 1093–1116. ISSN: 1040-3108. URL: https://ecommons.luc.edu/cs_facpubs/256/.
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- [12] Ian Foster, Gregor von Laszewski, George K. Thiruvathukal, and Brian Toonen. "A Computational Framework for Telemedicine". In: *Future Generation Computer Systems Future Generation Computer Systems* 14.1-2 (1998), pp. 109–123. ISSN: 0167-739X. URL: https://ecommons.luc.edu/cs_facpubs/41/.
- [13] George K. Thiruvathukal, Lovely S. Thomas, and Andrew T. Korczynski. "Reflective Remote Method Invocation". In: *Concurrency: Practice and Experience* 10.11-13 (1998), pp. 911–925. ISSN: 1040-3108. URL: https://ecommons.luc.edu/cs_facpubs/11/.
- [14] Ian Foster, George K. Thiruvathukal, and Steven Tuecke. "Technologies for Ubiquitous Supercomputing: A Java Interface to the Nexus Communication System". In: *Concurrency: Practice and Experience* 9.6 (1997), p. 465. ISSN: 1040-3108. URL: https://ecommons.luc.edu/cs_facpubs/8/.
- [15] William T. O'Connell, George K. Thiruvathukal, and Thomas W. Christopher. "Distributed Memo: Heterogeneously Concurrent Programming with a Shared Directory of Unordered Queues". In: *International Journal of Computers and Applications* 19.2 (1997), pp. 115–122. ISSN: 1206-212X. URL: https://ecommons.luc.edu/cs_facpubs/44/.

Conferences

- [1] Sara Aghajanzadeh, Roopasree Naidu, Shuo-Han Chen, Caleb Tung, Abhinav Goel, Yung-Hsiang Lu, and George K. Thiruvathukal. "Camera Placement Meeting Restrictions of Computer Vision". In: *2020 IEEE International Conference on Image Processing (ICIP)*. Oct. 2020, pp. 3254–3258. DOI: 10.1109/ICIP40778.2020.9190851. URL: http://ecommons.luc.edu/cs_facpubs/250.
- [2] Aditya Chakraborty, Akshay Pawar, Hojoung Jang, Shunqiao Huang, Sripath Mishra, Chen Shuo-Han, Yan-Hao Chang, George K. Thiruvathukal, and Yung-Hsiang Lu. "A Real-Time Feature Indexing System on Live Video Streams". In: *2020 IEEE 44th Annual Computers, Software, and Applications Conference (COMPSAC)*. July 2020, pp. 42–50. DOI: 10.1109/COMPSAC48688.2020.00016. URL: http://ecommons.luc.edu/cs_facpubs/249.
- [3] Dario Dematties, George K. Thiruvathukal, Silvio B. Rizzi, Alejandro Wainselboim, and B. Silvano Zanutto. "Towards High-End Scalability on Biologically-Inspired Computational ModelsAuthors". In: *Parallel Computing: Technology Trends*. Ed. by Ian Foster, Gerhard R. Joubert, Lud  k Ku  era, Wolfgang E. Nagel, and Frans Peter. 2020, pp. 497–506. URL: https://ecommons.luc.edu/cs_facpubs/242/.
- [4] Abhinav Goel, Caleb Tung, Sara Aghajanzadeh, Isha Ghodgaonkar, Shreya Ghosh, George K. Thiruvathukal, and Yung-Hsiang Lu. "Low-Power Object Counting with Hierarchical Neural Networks". In: *Proceedings of the ACM/IEEE International Symposium on Low Power Electronics and Design*. ISLPED '20. Boston, Massachusetts: Association for Computing Machinery, 2020, p. 163168. ISBN: 9781450370530. DOI: 10.1145/3370748.3406569. URL: <https://doi.org/10.1145/3370748.3406569>.

- [5] Abhinav Goel, Caleb Tung, Yung-Hsian Lu, and George K. Thiruvathukal. "A Survey of Methods for Low-Power Deep Learning and Computer Vision". In: *2020 IEEE 6th World Forum on Internet of Things (WF-IoT)*. June 2020, pp. 1–6. DOI: 10.1109/WF-IoT48130.2020.9221198. URL: http://ecommons.luc.edu/cs_facpubs/241.
- [6] Xiao Hu, Haobo Wang, Anirudh Vegesana, Somesh Dube, Kaiwen Yu, Gore Kao, Shuo-Han Chen, Yung-Hsiang Lu, George K. Thiruvathukal, and Ming Yin. "Crowdsourcing Detection of Sampling Biases in Image Datasets". In: *Proceedings of The Web Conference 2020. WWW '20*. Taipei, Taiwan: Association for Computing Machinery, 2020, pp. 2955–2961. ISBN: 9781450370233. DOI: 10.1145/3366423.3380063. URL: <https://doi.org/10.1145/3366423.3380063>.
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- [9] Ronald I. Greenberg and George K. Thiruvathukal. "Exercises Integrating High School Mathematics with Robot Motion Planning". In: *2019 IEEE Frontiers in Education Conference (FIE)*. Oct. 2019. DOI: 10.1109/FIE43999.2019.9028394. URL: http://ecommons.luc.edu/cs_facpubs/231.
- [10] Ronald I. Greenberg, George K. Thiruvathukal, and Sara T. Greenberg. "Integrating Mathematics and Educational Robotics: Simple Motion Planning". In: *10th International Conference on Robotics in Education (RiE)*. Ed. by Springer Verlag. 2019. URL: http://ecommons.luc.edu/cs_facpubs/213.
- [11] Konstantin Läufer, John O'Sullivan, and George K. Thiruvathukal. "Tests as Maintainable Assets via Auto-Generated Spies: A Case Study Involving the Scala Collections Library's Iterator Trait". In: *Proceedings of the Tenth ACM SIGPLAN Symposium on Scala. Scala '19*. London, United Kingdom: Association for Computing Machinery, 2019, pp. 17–21. ISBN: 9781450368247. DOI: 10.1145/3337932.3338814. URL: <https://doi.org/10.1145/3337932.3338814>.
- [12] Caleb Tung, Matthew R. Kelleher, Ryan J. Schlueter, Binhan Xu, Yung-Hsiang Lu, George K. Thiruvathukal, Yen-Kuan. Chen, and Yang Lu. "Large-Scale Object Detection of Images from Network Cameras in Variable Ambient Lighting Conditions". In: *2019 IEEE Conference on Multimedia Information Processing and Retrieval (MIPR)*. Mar. 2019, pp. 393–398. DOI: 10.1109/MIPR.2019.00080. URL: http://ecommons.luc.edu/cs_facpubs/207.
- [13] Sergei Alyamkin, Matthew Ardi, Achille Brighton, Alexander C. Berg, Yiran Chen, Hsin-Pai Cheng, Bo Chen, Zichen Fan, Chen Feng, Bo Fu, Kent Gauen, Jongkook Go, Alexander Goncharenko, Xuyang Guo, Hong Hanh Nguyen, Andrew Howard, Yuanjun Huang, Donghyun Kang, Jaeyoun Kim, Alexander Kondratyev, Seungjae Lee, Suwoong Lee, Junhyeok Lee, Zhiyu Liang, Xin Liu, Juzheng Liu, Zichao Li, Yang Lu, Yung-Hsiang Lu, Deeptanshu Malik, Eunbyung Park, Denis Repin, Tao Sheng, Liang Shen, Fei Sun, David Svitov, George K. Thiruvathukal, Baiwu Zhang, Jingchi Zhang, Xiaopeng Zhang, and Shaojie Zhuo. "2018 Low-Power Image Recognition Challenge: Status, Challenges, Opportunities". In: *arXiv:1810.01732*. 2018. URL: https://ecommons.luc.edu/cs_facpubs/217/.
- [14] Nasir U. Eisty, George K. Thiruvathukal, and Jeffrey C. Carver. "A Survey of Software Metric Use in Research Software Development". In: *2018 IEEE 14th International Conference on e-Science (e-Science)*. Oct. 2018, pp. 212–222. DOI: 10.1109/eScience.2018.00036. URL: https://ecommons.luc.edu/cs_facpubs/206/.
- [15] Ahmed S. Kaseb, Bo Fu, Anup Mohan, Yung-Hsiang Lu, Amy Reibman, and George K. Thiruvathukal. "Analyzing Real-Time Multimedia Content From Network Cameras Using CPUs and GPUs in the Cloud". In: *IEEE International Conference on Multimedia Information Processing and Retrieval*. 2018. URL: https://ecommons.luc.edu/cs_facpubs/190/.
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- [18] David B. Dennis and George K. Thiruvathukal. "Computer Science and Cultural History: A Dialogue". In: *CESTEMER Conference: Cultivating Ensembles in STEM Education and Research*. 2017. URL: https://ecommons.luc.edu/history_facpubs/42/.

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Selected Media Appearances

Television

- o ABC-7 Chicago, Robots Inspiring STEM Education in Schools, 15 October 2016
- o ABC-7 Chicago, Voting technology changing elections, 16 July 2016
- o WTTW Chicago Tonight, Reports: Facebook Users' Personal Data Exploited to Help Trump's Campaign, 20 March 2018
- o WTTW Chicago Tonight, #DeleteFacebook: Is It Time to Say Farewell to Facebook?, WTTW Chicago Tonight, 8 January 2019

Newspapers and Magazines

- o VentureBeat, How AI is Bringing Hollywood to Life, 9 December 2016
- o EdTech Digest, Beyond Pythagoras, 16 December 2016
- o Robotics Tomorrow, Robotics 101 at Loyola University Chicago, 3 November 2016
- o SC Media, Vulnerabilities Exist but so do Safeguards, 9 November 2016
- o ZDNet, Can AI really be ethical and unbiased?, 16 October 2016
- o Philadelphia Inquirer Penn physicists honored for work that could take heat out of computing, 24 April 2015
- o IT World, Meet the IT Dream Team, 26 March 2015
- o Computer Weekly, If the Year of Code has got it wrong, how should we teach kids to code?, 17 February 2014
- o Dell TechPageOne, Internet of Things will require data centers of all sizes, 24 June 2014
- o Forbes, Does the Internet of Things Need Its Own Network?, 3 July 2014
- o The Telegraph UK, Google Glass: the next big gaming platform?, 12 August 2013
- o Times of London, Computers with a Sense of Humour?, 4 September 2013
- o Fast Company Co.Create, The Social Living Room: How Nintendo's Wii revolutionized Gaming and What it Means for the Future of Consoles, 7 June 2012
- o ACM/IEEE Supercomputing 2012, IEEE News Release for Supercomputing 12, 12 November 2012

Service

University Service

- o *Member*, Faculty Council, 2020-Present (Handbook Committee)
- o *Member*, Faculty Affairs Advisory Committee, 2019-Present
- o *Member*, Neuroscience Search Committee, 2020
- o *Chair*, Search Committee, Computer Science, 2013
- o *Member*, Faculty Council, 2012-2014
- o *Member*, Search Committee, Non-Tenure Track Position in Digital Humanities, 2010
- o *Member*, Search Committee, School of Communication, 2009
- o *Chair*, Graduate Council, 2006

Departmental Service

- o *Director*, Computer Science Labs and Infrastructure, 2003-Present
- o *Faculty Advisor*, Free/Open Source Software at Loyola Student Organization, 2008-2010
- o *Faculty Advisor*, Loyola Technology and Entrepreneurship Student Organization (LuTech), 2015-2017
- o *Chair*, Undergraduate Curriculum Committee
- o *Co-Chair*, Faculty Evaluation and Appraisal Committee, AY 2012-2018
- o *Undergraduate Program Director, Temporary Assignment*, 2004
- o *Graduate Program Director*, 2004-2006

Panel Service

- o *Panelist*, National Science Foundation, CISE, Cyberinfrastructure, and Cyber-Physical Systems
- o *Panelist*, National Endowment for the Humanities, Office of Digital Humanities
- o *Panelist*, National Institutes for Health, Multiscale and Cross-Agency R01/U01 Programs

Conference Committees

- o *Co-General Chair*, RESPECT 2018
- o *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, 2017-2020
- *Associate Editor in Chief*, Computer Magazine, 2016-2020
- *Editor in Chief*, Computing in Science and Engineering, 2013-2016
- *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