

Curriculum Vitae

Rajeev R. Raje

Professor

Department of Computer and Information Science

Indiana University-Purdue University Indianapolis

723 W. Michigan Street, SL 280H

Indianapolis, IN 46202

(317) 274 5174

rraje@cs.iupui.edu

<http://www.cs.iupui.edu/~rraje>

February 9, 2018

Name

Rajeev R. Raje

Education

PhD in Computer Engineering, Syracuse University, Syracuse, NY, 1994

MS in Computer Engineering, Syracuse University, Syracuse, NY, 1994

BE in Electrical Engineering, VJTI, University of Bombay, Bombay, India, 1984

Professional Appointments

- July 2009 – Present, Professor, Department of Computer and Information Science, Indiana University-Purdue University Indianapolis (IUPUI), Indianapolis, IN
- September 2007 – Present, Associate Chair (Acting Chair in Fall'15), Department of Computer and Information Science, IUPUI, Indianapolis, IN
- September 2006 – August 2007, Interim Associate Chair, Department of Computer and Information Science, IUPUI, Indianapolis, IN
- Spring 2004 – Spring 2006, Adjunct Associate Professor (Courtesy Appointment), Department of Computer and Information Sciences, University of Alabama at Birmingham (UAB), Birmingham, AL
- August 2002 – June 2009, Associate Professor, Department of Computer and Information Science, IUPUI, Indianapolis, IN
- August 1996 – July 2002, Assistant Professor, Department of Computer and Information Science, IUPUI, Indianapolis, IN
- August 1994 – July 1996, Visiting Assistant Professor, Department of Computer and Information Science, IUPUI, Indianapolis, IN
- September 1988 – July 1994, Graduate Research Assistant, NY CASE Center & Department of Electrical and Computer Engineering, Syracuse University, Syracuse, NY
- May 1988 – August 1988, Graduate Research Assistant, Department of Electrical Engineering, University of Rhode Island, Kingston, RI
- September 1987 – August 1988, Assistant and Graduate Assistant, Administrative Computer Center, University of Rhode Island, Kingston, RI
- June 1984 – August 1987, Project Engineer, Controls and Automation Systems Engineering Division, Siemens Limited, Bombay, India

Research Interests

- Distributed and Component-based Systems, Software Engineering, Service-oriented Computing

Honors and Awards

- Best Paper Presentation Award (Session - joint), *20th IEEE ICCIT*, Dhaka, Bangladesh, 2017
- Selected for a biographic entry in the *Garje Marathi* book by Granthali Prakashan, 2017
- Research Selected for an entry in the 2016 Compendium Industry-Nominated Technological Breakthroughs for NSF I/UCRCs (joint), 2016
- Nominated for the IUPUI *SoS Service Award*, 2016, 2017
- *ACM Senior Member*, 2014
- *IEEE Senior Member*, 2014
- *Letter of Appreciation* from the IEEE/CSI International Conference on High Performance Computing and Applications (ICHPCA), 2014
- *Keynote Address*, 2nd International Conference On Network Infrastructure Management Systems, Mumbai, India, 2013
- *IUPUI Trustees Teaching Award*, 2010 and 2001
- *Favorite Faculty Award*, Computer Science Club, IUPUI, 2007-08
- Co-author, *Top-10 Downloaded Paper*, *ACM Digital Library*, 2006
- Nominated for the *SoS Research Award*, 2006
- Co-author, *One of the Top Bioinformatics paper*, *BRIC Bioinformatic Online Newsletter*, 2005
- *Recognition Plaque*, 12th IEEE International Conference on High-performance Computing, 2005
- *Certificate of Appreciation*, Department of the Information Systems and Operations Management, Ball State University, 2005
- Nominated to *Who's Who Among America's Teachers*, 2004
- *Certificate of Appreciation*, ACM SAC, 2003
- Nominated for the *Forty Under 40 Program* of the Indianapolis Business Journal, 2003-04
- *Certificate of Appreciation*, School of Science, IUPUI, 2002
- The IUPUI *School of Science Teaching Award*, 2000
- *Commendation for Technical Excellence in Reviewing*, Recognized by IEEE Computer, 1998-99
- Selected as *Level-3, Level-2, and Level-1 Mentor* by the Graduating Students at IUPUI School of Science, 1996-2002 and 2004-16
- The *Teaching Excellence Recognition Award (TERA)*, Department of Computer and Information Science and the School of Science at IUPUI, 1998-99 and 1996-97

- *Excellence in Teaching*, Recognized by the IUPUI Intercollegiate Athletics Department, 1998-99
- The *Professor of the Year 1996-97*, Computer Science Club and the Department of Computer and Information Science at IUPUI
- The *Overall Professor of the Year 1995-96*, Computer Science Club and the Department of Computer and Information Science, IUPUI
- *Graduate Research Assistantship*, Syracuse University, NY CASE Center and University of Rhode Island, 1988-94
- *J. N. Tata Scholarship*, J. N. Tata Endowment, 1986
- *Anandrao Ganapat Pandit Scholarship* for achieving the 1st Rank, University of Bombay, 1982-83
- *Shekhar N. Naik Silver Medal for Science*, Indian Education Society, 1978

Grants (External and Internal)

1. Real-Time Algorithms and Software Systems for Heterogeneous Data Driven Policing of Social Harm, NSF, \$791,513, 2017-20 (Co-PI)
2. Static Code Analysis Tool Modernization Project, Kestrel Technology and DHS (with options), \$677,965, 2016-20 (Co-PI)
3. Reducing False Positive Reported By Static Code Analysis Tools, Department of Homeland Security, \$584,605 (with options), 2015-18 (Co-PI)
4. Testing-as-a-Service: Static Code Analysis (SCA) Tool Study – Phases I-IV, *S²ERC*, Lockheed Martin, Northrop Grumman and Department of Homeland Security, \$101,559, 2013-16 (Co-PI)
5. Grant for hosting 2015 *S²ERC* Fall Showcase, IUPUI, \$3,500, 2015 (PI)
6. A Pervasive Computing Infrastructure for Supporting CS Graduate Courses, IUPUI SoS Teaching Support, \$27,657, 2014-15 (Joint PI)
7. Modeling, Specifying, Discovering, and Integrating Trust into Distributed Real-time and Embedded (DRE) Systems, *S²ERC* and Air Force Research Lab, \$79,000, 2011-13 (PI)
8. A Distributed Framework for Indoor Location Tracking, Purdue Research Foundation Research Grant, \$17,608, 2013-14 (Joint PI)
9. International Travel Grant, Purdue Research Foundation, \$1,000, 2011
10. Developing a Fast and Accurate Parallel Solver for Multi-scale Biochemical Reacting Systems, IUPUI, \$2000, 2009-10 (Co-PI)
11. Developing Fast and Accurate Embarrassingly Parallel Solver for Multi-Scale Chemically Reacting Systems, IUPUI, \$1500, 2008-09 (Co-PI)
12. Signature Center for Bio-Computing, IUPUI, \$285,000, 2007-2009 (Co-PI)

13. An Environment for Distributed Component-based Software Development, Indigo Foundation, \$26,400, 2005-2006 (PI)
14. A Framework for Seamless Interoperation of Heterogeneous Distributed Software Components, US Office of Naval Research, \$1,558,803, 2001-2005 (PI)
15. Indiana University SUR Proposal: Information Technology Applications for the Life Sciences, IBM Corporation, \$1.2 Million (hardware), 2001 (Co-PI)
16. Test-assessment and Minimization for the Microsoft Windows NT Operating System, Microsoft Corporation, \$93,742, 2000-2002 (PI)
17. An Active, Personalized, Adaptive, Multi-format Biological Information Delivery System, National Science Foundation, \$494,297, 2000-2004 (Co-PI)
18. Indiana University SUR Proposal: Tightly integrated distributed supercomputing - the Indiana TeraCloud, IBM Corporation, \$1 Million (hardware), 2000-2001 (Co-PI)
19. A Distributed Information Filtering System for Digital Libraries, National Science Foundation, \$315,386, 1999-2003 (Co-PI)
20. Intelligent Software System for Bimolecular Database Access and Analysis, Eli Lilly & Company, \$22,200, 1999-2000 (Co-PI)
21. Biomedical Tele-Visualization, Indiana University High Performance Network Applications Program, \$20,000, 1999-2000 (Co-PI)
22. Grants-in-Aid (Teaching), Faculty Development Office at IUPUI, \$3,000, 1996-1997 (PI)

Publications

Books

1. Yuanshun Dai, Yi Pan, Rajeev R. Raje (Eds.), *Advanced Parallel And Distributed Computing: Evaluation, Improvement And Practice*, Nova Science Publishers, Inc., ISBN: 1-60021-202-6, 2007.

Refereed Book Chapters

2. Rajeev R. Raje, Zhiqing Liu, Sivakumar Chinnasamy, Ming Zhong, Wilfred Mascarenhas, Joseph Williams, "Distributed-Object Computing", in *High-performance Cluster Computing*, Vol.2, Pages: 249-273, 1999.
3. Rajeev R. Raje, Anantharaman Kalyanraman, Nanditha Nayani, "Distributed-Object Computing Tools", *Tools and Environments for Parallel and Distributed Computing*, pp. 79-147, 2004.
4. Andrew M. Olson, Rajeev R. Raje, Barrett R. Bryant, Mikhail Auguston, Carol Burt, "UniFrame – A Unified Framework for Developing Service-oriented, Component-based Distributed Software Systems", in *Service- Oriented Software System Engineering: Challenges and Practices*, pp. 68-87, 2005.
5. Andrew M. Olson, Rajeev R. Raje, Barrett R. Bryant, Mikhail Auguston, Carol Burt, "UniFrame - Automating the Construction of Large-Scale Distributed Systems", in *Advanced Parallel And Distributed Computing: Evaluation, Improvement And Practice*, pp. 197-212, 2007.

6. Rajeev R. Raje, Jayasree Gandhamaneni, Andrew M. Olson, Barrett R. Bryant, "MURDS: A Mobile-Agent-based Distributed Discovery System", *Encyclopedia of Mobile Computing and Commerce – Volume 1*, pp. 436-441, 2007.
7. Mihran Tuceryan, Rajeev R. Raje, "Distributed Heterogeneous Tracking for Augmented Reality Using Component-based Software Technologies", *Encyclopedia of Mobile Computing and Commerce – Volume 2*, pp. 207-212, 2007.
8. Rajeev R. Raje, Sivakumar Chinnasamy, Andrew Olson, William Higdon, "The Application and Enhancement of LePUS for Specifying Design Patterns" in *Design Patterns Formalization Techniques*, pp. 236-257, 2007.
9. Rajeev R. Raje, Alex Crespi, Omkar J. Tilak, Andrew Olson, "An Access Control Model for the Components in a Distributed System" in *Handbook of Research on Information Assurance and Security*, pp. 254-265, 2008.
10. Omkar Tilak, Rajeev R. Raje, Andrew Olson, "Assurance for Temporal Compatibility Using Contracts" in *Handbook of Research on Information Assurance and Security*, pp. 360-371, 2008.

Journal Articles

11. Rajeev R. Raje, "SIMATIC S5-110S DIMOS - Diagnostics and Monitoring System", *Siemens Circuit*, Vol. XXII, 1-2/87 (January/April 1987), pp. 34-37.
12. Rajeev R. Raje, Joseph Williams, Michael Boyles, "An Asynchronous Remote Method Invocation (ARMI) Mechanism for Java", *Concurrency: Practice and Experience*, Vol. 9(11), pp. 1207-1211 (1997).
13. Rajeev R. Raje, Snehasis Mukhopadhyay, Michael Boyles, Artur Papiez, Nila Patel, Mathew Palakal, Javed Mostafa, "A Bidding Mechanism for Web-Based Agents Involved in Information Classification", *World Wide Web*, 1(1998), pp. 155-165.
14. Rajeev Raje, Michael Boyles, Shiaofen Fang, "CEV: Collaborative Environment for Visualization Using Java-RMI", *Concurrency: Practice and Experience*, Vol. 10(11-13), pp. 1079-1085, (1998).
15. Rajeev R. Raje, Snehasis Mukhopadhyay, Michael Boyles, Nila Patel, Javed Mostafa, "On Designing and Implementing a Collaborative System Using the Distributed-Object Model of Java-RMI", *Parallel and Distributed Computing Practices*, Vol. 1, No. 4, December 1998, pp. 3-13.
16. Rajeev R. Raje, Sivakumar Chinnasamy, "Designing a Distributed-object Computing Environment for Global-scale Systems – Challenges and Issues", (Invited) *ACM SIGAPP Applied Computing Review*, Vol. 7, No.1, pp. 25-30, Spring 1999.
17. Rajeev R. Raje, "Experiences in building Distributed-object Systems", (Invited) *Journal of Alabama Academy of Sciences*, Vol. 71, No. 2, pp. 57, April 2000.
18. Rajeev R. Raje, Ming Zhong, Tongyu Wang, Joseph Williams, "A Case Study: A Distributed Concurrent System with AspectJ", *ACM SIGAPP Applied Computing Review*, Vol. 9, No. 2, pp. 17-23, Summer 2001.

19. Rajeev R. Raje, Barrett Bryant, Mikhail Auguston, Andrew Olson, Carol Burt, "A QoS-based Framework for Creating Distributed and Heterogeneous Software Components", *Concurrency and Computation: Practice and Experience*:2002, 14, pp. 1009-1034.
20. Rajeev R. Raje, Mingyong Qiao, Snehasis Mukhopadhyay, Shengquan Peng, Mathew Palakal, Javed Mostafa, "Homogeneous Agent-based Distributed Information Filtering ", *Cluster Computing*, Vol. 5 (2002), No. 4, pp. 377-388.
21. Mathew Palakal, Snehasis Mukhopadhyay, Javed Mostafa, Rajeev Raje, Mathias N'Cho, Santosh K. Mishra, "An Intelligent Biological Information Management System" , *Bioinformatics Journal*, Vol. 18, No. 10, pp. 1283-1288, 2002.
22. Snehasis Mukhopadhyay, Shengquan Peng, Rajeev R. Raje, Mathew Palakal, Javed Mostafa, "Large-scale Multi-agent Information Classification Using Dynamic Acquaintance Lists", *Journal of the American Society for Information Science and Technology*, Vol. 54, No. 10, pp. 966-975, 2003.
23. Mathew Palakal, Matthew Stephens, Snehasis Mukhopadhyay, Rajeev Raje, Simon Rhodes, "Identification of Biological Relationships from text documents using efficient computational Methods", *Journal of Bioinformatics and Computational Biology (JBCB)*, Vol. 1, No. 2 (2003), pp. 1-34.
24. Rajeev R. Raje, Daocheng Zhu, Snehasis Mukhopadhyay, Liying Tang, Mathew Palakal, Javed Mostafa, "COBioSIFTER - A CORBA-based Distributed Multi Agent Biological Information Management System", *Cluster Computing*, Vol. 7, 373-389, 2004.
25. Chunmin Yang, Barrett R. Bryant, Carol Burt, Rajeev R. Raje, Andrew M. Olson, Mikhail Auguston, "Formal Methods for Quality of Service Analysis in Component-based Distributed Computing", *Journal of Design & Process Science: Transactions of the Society for Design and Process Science*, 8,2, pp. 137-149, 2004.
26. Fei Cao, Barrett Bryant, Rajeev R. Raje, Andrew Olson, Mikhail Auguston, Wei Zhao, Carol Burt, "A Component Assembly Approach Based on Aspect-oriented Generative Domain Modeling", *Electronic Notes in Theoretical Computer Science (ENTCS)*, Elsevier Science, Vol. 114, pp. 119-136, 2005.
27. Snehasis Mukhopadhyay, Shengquan Peng, Rajeev R. Raje, Mathew Palakal, Javed Mostafa, "Distributed Multi-Agent Information Filtering – A Comparative Study", *Journal of the American Society for Information Science and Technology*, Vol. 56, No. 8, pp. 834-842, 2005.
28. Fei Cao, Barrett Bryant, Rajeev R. Raje, Andrew Olson, Mikhail Auguston, Wei Zhao, Carol Burt, "Dynamic Composition Patterns for Distributed Components", *Journal of Universal Computer Science*, Vol. 11, No. 10, pp. 1645-1675, 2005.
29. Changlin Sun, Rajeev R. Raje, Barrett Bryant, Omkar Tilak, "Compositional Reasoning of Performance in Component-Based Distributed Systems", *Cluster Computing*, 11(4), pp. 331-340, 2008.
30. Ketaki A. Pradhan, Lahiru Gallege, Alfredo Moreno, Rajeev R. Raje, "MDE-URDS – A Mobile Device Enabled Service Discovery System" (extended version of the conference paper), *International Journal on Advanced Computing and Communication Networks*, Vol. 3, No. 1 (2011), pp. 33-37, 2011.

31. Anjali Kumari, Ketaki A. Pradhan, Lahiru S. Gallege, Rajeev R. Raje, "Synchronization Level Specification and Matching of Software Components", *Software Engineering: An International Journal*, Vol. 2, No. 1, pp. 7-19, March 2012.
32. Dimuthu U. Gamage, Ryan Rybarczyk, Rajeev R. Raje, "A Practical Approach to Adaptive Service Composition", *Software Engineering: An International Journal*, Vol. 3, No.1, pp. 7-20, April 2013.
33. Andrew Olson, Rajeev Raje, Barun Devaraju, Lahiru Gallege, "Learning Improves Service Discovery", *Concurrency and Computation: Practice and Experience*, 27(7): 1679-1694 27(7): 1679-1694, 2015.
34. Lahiru Gallege, Dimuthu Gamage, James Hill, Rajeev R. Raje, "Understanding the Trust of Software-intensive Distributed Systems", *Concurrency and Computation: Practice and Experience*, 28(1): 114-143, 2016.
35. Dimuthu Gamage, Lahiru Gallege, Rajeev R. Raje, "Composing Context-Aware Distributed Systems using QoS and Trust Principles", *International Journal of Services Computing*, 4(2), pp. 32-48, 2016.
36. Ruchika Malhotra, Megha Khanna, Rajeev R. Raje, "On the Application of Search-based Techniques for Software Engineering Predictive Modeling: A Systematic Review and Future Directions", *Swarm and Evolutionary Computation*, 32:85-109, 2017.
37. Boakye Dankwa, Raghavendran Vijayan, Darsh Sanghavi, Mihran Tuceryan, Rajeev R. Raje, "Trust in Vehicle-to-Vehicle Communication", *International Journal of Scientific & Engineering Research* (extended version of the conference paper), Volume 8, Issue 6, pp. 1-6, June 2017.
38. George Mohler, Jeremy Carter, Rajeev Raje, "Improving Social Harm Indices with a Modulated Hawkes Process", *International Journal of Forecasting*, 2018 (Accepted).

Journal Articles Under Review

39. Dimuthu Gamage, Rajeev R. Raje, "Distributed Computing Applications of Context-Aware QoS and Trust Prediction Framework", *IEEE Transactions on Services Computing*.
40. Ruchika Malhotra, Rajeev R. Raje, "Towards Automated Severity Assessment of Software using Vulnerable Defect Reports", *Software Quality Professional*.

Refereed Conference/Workshop Proceedings

(Note: Due to the unique and dynamic nature of Computer Science, it is an accepted practice to consider peer reviewed journal and peer reviewed conference/workshop publications to be equivalent. This policy is also consistent with the Best Practices Memo article that appeared in the Computing Research News (August 1999) and is available at: http://cra.org/resources/bp-view/evaluating_computer_scientists_and_engineers_for_promotion_and_tenure/. The papers published in such peer-reviewed proceedings are full papers and not abstracts and are revised based on reviewers' feedback before appearing in their final publication forms.)

41. Daniel J. Pease, Rajeev R. Raje, "SHARADA - A Sharable HierARchical Architectural Database", *Proceedings of International Conference on Advances in Data Management, CO-MAD'91*, Bombay, India, 1991.

42. Rajeev R. Raje, Daniel J. Pease, Zaide Liu, Neng T. Lin, "A Graphical Tool for Shared Data Analysis of Parallel Fortran Programs", *Proceedings of European Simulation Symposium, ESS'93*, Delft, The Netherlands, 1993.
43. Rajeev R. Raje, Daniel J. Pease, Songqing Cai, Zaide Liu, Neng T. Lin, "MVSW - A Batch Job Submission Environment under AIX", *Proceedings of USING'93*, Atlanta, Georgia, 1993.
44. Rajeev R. Raje, Daniel J. Pease, Sanjay D. Jejurikar, Neng T. Lin, "A Graphical Hierarchical Flowchart Generator for Parallel Fortran Programs", *Proceedings of Computer Graphics International '93*, Lausanne, Switzerland, 1993.
45. Rajeev R. Raje, Daniel J. Pease, Edward T. Guy III, "Class Partitions - A New Approach to Sequential Object Oriented Programs", *Proceedings of 29th Hawaii International Conference on System Sciences (Organized by IEEE), HICSS-29*, Hawaii, 1996.
46. Rajeev R. Raje, Daniel J. Pease, Edward T. Guy III, "OFFERS - A Tool for Hierarchical Implicit Analysis of Sequential Object Oriented Programs", *Proceedings of ACM's Symposium on Applied Computing, SAC'96*, Philadelphia, Pennsylvania, 1996.
47. Rajeev R. Raje, Ramana Pidaparti, C. Yokomoto, "An Active Collaborative Environment for Engineering Applications/Education Using Java-RMI", *Proceedings of ASEE Illinois/Indiana Sectional Conference*, Indianapolis, Indiana, 1997.
48. Chihfeng Lin, Daniel Pease, Rajeev R. Raje, "An Optimal-Joint-Coordinate Block Matching Algorithm for Motion-Compensated Coding" *Proceedings of IEEE 1997 Data Compression Conference DCC '97*, Snowbird, Utah, 1997.
49. Rajeev R. Raje, Snehasis Mukhopadhyay, Michael Boyles, Nila Patel, Javed Mostafa, "D-SIFTER: A Collaborative Information Classifier", *Proceedings of the International Conference on Information, Communication and Signal Processing (organized by IEEE Singapore Section), ICICS'97*, Singapore, 1997.
50. Rajeev R. Raje, Dennis Gannon, "A Timing Experiment with Java-RMI, CORBA and C-RPC", *Proceedings of the 5th International Conference on Advanced Computing (organized in-cooperation with IEEE Computer Society), ADCOMP'97*, Chennai, India, 1997.
51. Rajeev R. Raje, Snehasis Mukhopadhyay, Michael Boyles, Artur Papiez, "An Economic Framework for a Web-based Collaborative Information Classifier", *Proceedings of the International Association of Science and Technology for Development, SE'97 Conference*, San Francisco, California, 1997.
52. Rajeev R. Raje, Snehasis Mukhopadhyay, Michael Boyles, Nila Patel, Javed Mostafa, "On Designing and Implementing a Collaborative System Using Java-RMI", *Proceedings of the 5th International Conference on Advanced Computing (organized in-cooperation with IEEE Computer Society), ADCOMP'97*, Chennai, India, 1997.
53. Rajeev R. Raje, Antony Teal, Joseph Coulson, Sihai Yao, William Winn, Edward Guy III, "CCASEE - A Collaborative Computer Assisted Software Engineering Environment", *Proceedings of the International Association of Science and Technology for Development (IASTED), SE'97 Conference*, San Francisco, California, 1997.
54. Chihfeng Lin, Daniel Pease, Rajeev R. Raje, "An Efficient Block Matching Algorithm Based on a Valid Assumption of the Convex Distortion", *Proceedings of IEEE International Conference on Image Processing, ICIP'97*, Washington, DC, 1997.

55. Michael Boyles, Rajeev Raje, Shiao-fen Fang, "CEV: Collaborative Environment for Visualization Using Java-RMI", *Proceedings of the ACM 1998 Workshop on Java for High-Performance Network Computing*, Palo Alto, California, 1998.
56. Sivakumar Chinnasamy, Rajeev R. Raje, Zhiqing Liu, "Specification of Design Patterns: An Analysis", *Proceedings of the 7th International Conference on Advanced Computing and Communications (Co-sponsored by IEEE Computer Society), ADCOM'99*, Roorkee, India, 1999.
57. Rajeev R. Raje, Snehasis Mukhopadhyay, Mingyong Qiao, Mathew Palakal, Javed Mostafa, "Experiments with a Distributed Information Filtering System", *Proceedings of the 4th World Multiconference on Systems, Cybernetics and Informatics, SCI-2000*, Orlando, Florida, 2000.
58. Rajeev R. Raje, "UMM: Unified Meta-object Model" – *Proceedings of 4th IEEE International Conference on Algorithms and Architecture for Parallel Processing, ICA3PP'2000*, Hongkong, 2000.
59. Mathew Stephens, Mathew Palakal, Snehasis Mukhopadhyay, Rajeev R. Raje, Javed Mostafa, "Detecting Gene Relationships From Medline Abstracts", *Proceedings of Pacific Symposium on Biocomputing 2001*, Honolulu, Hawaii, 2001.
60. Shengquan Peng, Snehasis Mukhopadhyay, Rajeev R. Raje, Mathew Palakal, Javed Mostafa, "A Comparison of Single-Agent and Multi-Agent Information Classification" – *CD-ROM Proceedings of 10th IEEE Heterogeneous Computing Workshop, HCW 2001*, San Francisco, California, 2001.
61. Rajeev R. Raje, Mingyong Qiao, Snehasis Mukhopadhyay, Mathew Palakal, Javed Mostafa, "SIFTER-II: A Heterogeneous Agent Society for Information Filtering" – *Proceedings of ACM Symposium on Applied Computing, SAC'01*, Las Vegas, Nevada, 2001.
62. Rajeev R. Raje, Sivakumar Chinnasamy, "eLePUS – A Language for Specification of Software Design Patterns" – *Proceedings of the ACM Symposium on Applied Computing, SAC'01*, Las Vegas, Nevada, 2001.
63. Rajeev R. Raje, Barrett Bryant, Mikhail Auguston, Andrew Olson, Carol Burt, "A Unified Approach for the Integration of Distributed Heterogeneous Software Components" – *Proceedings of the 2001 Monterey Workshop (Sponsored by DARPA, ONR, ARO and AFOSR)*, Monterey, California, 2001.
64. Mathew Palakal, Snehasis Mukhopadhyay, Javed Mostafa, Rajeev Raje, Mathias N'Cho, Santosh K. Mishra, "An Intelligent Biological Information Management System", *Proceedings of the ACM Symposium on Applied Computing, SAC'02*, Madrid, Spain, 2002.
65. Girish Brahmamath, Rajeev R. Raje, Andrew Olson, Barrett Bryant, Mikhail Auguston, Carol Burt, "A Quality of Service Catalog for Software Components", *Proceedings of the Southeastern Software Engineering Conference*, Huntsville, Alabama, 2002.
66. Carol Burt, Rajeev R. Raje, Mikhail Auguston, Barrett Bryant, Andrew Olson, "Quality of Service (QoS) Standards for Model Driven Architecture", *Proceedings of the Southeastern Software Engineering Conference*, Huntsville, Alabama, 2002.
67. Chunmin Yang, Barrett Bryant, Rajeev Raje, Mikhail Auguston, Andrew Olson, Carol Burt, "Formal Specification in Heterogeneous Distributed Software Integration", *Proceedings of the 40th Annual ACM Southeast Conference*, Raleigh, North Carolina, 2002.

68. Fei Cao, Barrett Bryant, Rajeev Raje, Mikhail Auguston, Andrew Olson, Carol Burt, "Specifying Heterogeneous Distributed Components", *Proceedings of the 40th Annual ACM Southeast Conference*, Raleigh, North Carolina, 2002.
69. Wei Zhao, Barrett Bryant, Rajeev Raje, Mikhail Auguston, Andrew Olson, Carol Burt, "A Unified Approach to Component Assembly Based on Generative Programming", *Proceedings of the 2002 Workshop on Generative Programming*, Austin, Texas, 2002.
70. Wei Zhao, Barrett Bryant, Rajeev Raje, Mikhail Auguston, Andrew Olson, Carol Burt, "Generative Composition of Distributed and Heterogeneous Components", *Proceedings of the 40th Annual ACM Southeast Conference*, Raleigh, North Carolina, 2002.
71. Nanditha Siram, Rajeev Raje, Barrett Bryant, Andrew Olson, Mikhail Auguston, Carol Burt, "An Architecture for the UniFrame Resource Discovery Service", *Proceedings of the 3rd International Workshop on Software Engineering and Middleware*, Orlando, Florida, 2002.
72. Mathew Palakal, Mathew Stephens, Snehasis Mukhopadhyay, Rajeev Raje, Simon Rhodes, "A Multi-level Text Mining Method to Extract Biological Relationships", *Proceedings of the IEEE Computer Society Bioinformatics Conference, CSB2002*, Palo Alto, California, 2002.
73. Barrett Bryant, Mikhail Auguston, Rajeev Raje, Andrew Olson, Carol Burt, "Formal Specification of Generative Component Assembly Using Two-Level Grammar", *Proceedings of the SEKE 2002, 14th International Conference on Software Engineering and Knowledge Engineering*, Ischia, Italy, 2002.
74. Carol C. Burt, Barrett R. Bryant, Rajeev R. Raje, Andrew Olson, Mikhail Auguston, "Quality of Service Issues Related to Transforming Platform Independent Models to Platform Specific Models", *Proceedings of the 6th IEEE International Enterprise Distributed Object Computing Conference*, Lausanne, Switzerland, 2002.
75. Changlin Sun, Rajeev Raje, Andrew Olson, Barrett Bryant, Mikhail Auguston, Carol Burt, Zhisheng Huang, "Composition and Decomposition of Quality of Service Parameters in Distributed Component-Based Systems", *Proceedings of the IEEE 5th International Conference on Algorithms and Architectures for Parallel Processing*, Beijing, China, 2002.
76. Zhisheng Huang, Rajeev Raje, Andrew Olson, Barrett Bryant, Mikhail Auguston, Carol Burt, Changlin Sun, "System-Level Generative Programming of Unified Approach Based on UMM for the Integration of Distributed Software Components", *Proceedings of the IEEE 5th International Conference on Algorithms and Architectures for Parallel Processing*, Beijing, China, 2002.
77. Fei Cao, Barrett Bryant, Rajeev Raje, Mikhail Auguston, Andrew Olson, Carol Burt, "Component Specification and Wrapper/Glue Code Generation with Two-Level Grammar using Domain Specific Knowledge", *Proceedings of ICFEM 2002, 4th International Conference on Formal Engineering Methods*, Shanghai, China, 2002.
78. Chunmin Yang, Beum-Seuk Lee, Barrett Bryant, Carol Burt, Rajeev Raje, Andrew Olson, "Formal Specification of Non-Functional Aspects in Two-Level Grammar", *Proceedings of the UML 2002 Workshop on Component-Based Software Engineering and Modeling Non-Functional Aspects*, Dresden, Germany, 2002.
79. Wei Zhao, Barrett R. Bryant, Rajeev R. Raje, Mikhail Auguston, Andrew M. Olson, Carol C. Burt, "A Component Assembly Architecture with Two-Level Grammar Infrastructure",

Proceedings of the OOPSLA'2002 Workshop on Generative Techniques in the context of MDA, Seattle, Washington, 2002.

80. Purvi Shah, Barrett R. Bryant, Rajeev R. Raje, Carol Burt, Andrew Olson, Mikhail Auguston, "Interoperability between Mobile Distributed Components using the UniFrame Approach", *Proceedings of the 41st Annual ACM South East Conference*, Savannah, GA, 2003.
81. Natasha Gupta, Rajeev R. Raje, Andrew Olson, Barrett Bryant, Mikhail Auguston, Carol Burt, "Analyzing the Web Services and UniFrame Paradigms", *Proceedings of the Southeastern Software Engineering Conference*, Huntsville, Alabama, 2003.
82. Carol C. Burt, Rajeev R. Raje, Barrett R. Bryant, Andrew Olson, Mikhail Auguston, "Model Driven Security: Unification of Authorization Models for Fine-Grain Access Control", *Proceedings of the 7th IEEE International Enterprise Distributed Object Computing Conference EDOC 2003*, Brisbane, Australia, 2003.
83. Wei Zhao, Barrett R. Bryant, Jeff Gray, Carol C. Burt, Rajeev R. Raje, Mikhail Auguston, Andrew M. Olson, "A Generative and Model Driven Framework for Automated Software Product Generation", *Proceedings of the 6th Workshop on Component-Based Software Engineering: Automated Reasoning and Prediction*, Portland, Oregon, 2003.
84. Snehasis Mukhopadhyay, Mathew Palakal, Daocheng Zhu, Rajeev Raje, "Intelligent Information Management in Bioinformatics", *Proceedings of the 12th Yale Workshop on Adaptive and Learning Systems*, New Heaven, Connecticut, 2003.
85. Fei Cao, Barrett Bryant, Carol Burt, Jeffrey Gray, Rajeev Raje, Andrew Olson, Mikhail Auguston, "Modeling Web Services: Towards System Integration in UniFrame", *Proceedings of the 7th World Conference on Integrated Design and Process technology (IDPT 2003)*, Austin, Texas, 2003.
86. Chunmin Yang, Barrett Bryant, Carol Burt, Rajeev R. Raje, Andrew Olson, Mikhail Auguston, "Formal Methods for Quality of Service Analysis in Component-Based Distributed Computing", *Proceedings of the 7th World Conference on Integrated Design and Process technology (IDPT 2003)*, Austin, Texas, 2003.
87. Fei Cao, Barrett R. Bryant, Carol C. Burt, Zhisheng Huang, Rajeev R. Raje, Andrew M. Olson, Mikhail Auguston, "Automating Feature-Oriented Domain Analysis", *Proceedings of the International Conference on Software Engineering Research and Practice (SERP'03)*, Las Vegas, Nevada, 2003.
88. Barrett Bryant, Beum-Seuk Lee, Fei Cao, Wei Zhao, Carol Burt, Rajeev Raje, Andrew Olson, Mikhail Auguston, "From Natural Language Requirements to Executable Models of Software Components", *Proceedings of the 2003 Monterey Workshop*, Chicago, Illinois, 2003.
89. Fei Cao, Barrett Bryant, Rajeev Raje, Mikhail Auguston, Andrew Olson, Carol Burt, "Assembling Components with Aspect-oriented Modeling/Specification", *Proceedings of UML Workshop Workshop in Software Model Engineering WiSE@UML'2003*, San Francisco, California, 2003.
90. Snehasis Mukhopadhyay, Mathew Palakal, Vijay Kodiripaka, Rajeev R. Raje, Javed Mostafa, "Managing Information Flow for Complex, Dynamic Tasks Using Multi-agent Collaboration", *Proceedings of the 2003 IEEE International Symposium on Intelligent Control, ISIC'03*, Houston, TX, 2003.

91. Fei Cao, Barrett Bryant, Rajeev R. Raje, Mikhail Auguston, Andrew Olson, Carol Burt, "A Component Assembly Approach Based on Aspect-Oriented Generative Domain Modeling", *Proceedings of SC'04, Software Composition Workshop affiliated with ETAPS 2004*, Barcelona, Spain, 2004.
92. Wei Zhao, Barrett R. Bryant, Rajeev R. Raje, Mikhail Auguston, Carol C. Burt, Andrew M. Olson, "Grammatically Interpreting Feature Compositions", *Proceedings of the 16th International Conference on Software Engineering and Knowledge Engineering (SEKE'04)*, Banff, Canada, 2004.
93. Fei Cao, Barrett Bryant, Carol Burt, Rajeev R. Raje, Andrew Olson, Mikhail Auguston, "A Meta-modeling Approach to Web Services", *Proceedings of ICWS04, IEEE International Conference on Web Services*, San Diego, California, 2004.
94. Wei Zhao, Barrett R. Bryant, Rajeev R. Raje, Mikhail Auguston, Carol C. Burt, Andrew M. Olson, "Automated Glue/Wrapper Code Generation in Integration of Distributed and Heterogeneous Software Components", *Proceedings of the 8th IEEE Enterprise Distributed Computing Systems Conference (EDOC'04)*, Monterey, California, 2004.
95. Pradeep Mysore, Rajeev R. Raje, Purushotham Bangalore, Barrett Bryant, "GridFrame – A Framework for Building Component-based Grid Systems", *12th International Conference on Advanced Computing & Communication (ADCOM '04)*, Ahmedabad, India, 2004.
96. Fei Cao, Barrett Bryant, Wei Zhao, Carol Burt, Rajeev R. Raje, Andrew Olson, Mikhail Auguston, "Marshaling and Unmarshaling Models Using Entity-Relationship Model", *Proceedings of the ACM Symposium on Applied Computing*, Santa Fe, New Mexico, 2005.
97. Shih-hsi Liu, Barrett Bryant, Jeffrey Gray, Rajeev R. Raje, Andrew Olson, Mikhail Auguston, "Two-level Assurance of QoS Requirements for Distributed Real-time and Embedded Systems", *Proceedings of the ACM Symposium on Applied Computing, SAC'05*, Santa Fe, New Mexico, 2005.
98. Shih-hsi Liu, Barrett Bryant, Jeffrey Gray, Rajeev R. Raje, Andrew Olson, Mikhail Auguston, "QoS-UniFrame: A Petri Net-based Approach to Assure QoS Requirements of Distributed Real-time and Embedded Systems", *12th IEEE International Conference and Workshop on the Engineering of Computer-based Systems (ECBS'05)*, Greenbelt, Maryland, 2005.
99. Shih-hsi Liu, Fei Cao, Barrett Bryant, Jeffrey Gray, Rajeev R. Raje, Andrew Olson, Mikhail Auguston, "Quality of Service Requirement Analyses for Component Composition: A Two-level Grammar Approach", *Proceedings of the 17th International Conference on Software Engineering and Knowledge Engineering (SEKE'05)*, Taipei, Taiwan, 2005.
100. Shih-hsi Liu, Barrett Bryant, Jeffrey Gray, Rajeev R. Raje, Mihran Tuceryan, Andrew Olson, Mikhail Auguston, "QoSPL: A QoS-driven Software Product Line Engineering Framework for Distributed Real-time and Embedded Systems", *Proceedings of the 18th International Conference on Software Engineering and Knowledge Engineering (SEKE'06)*, San Francisco, California, 2006.
101. Omkar J. Tilak, Rajeev R. Raje, Xukai Zou, "Composing Access Control Policies of Distributed Components", *Proceedings of the 2nd IEEE International Symposium on Dependable, Autonomic and Secure Computing*, Indianapolis, Indiana, 2006.

102. Shih-Hsi Liu, Barrett R. Bryant, Mikhail Auguston, Jeff Gray, Rajeev Raje and Mihran Tuceryan, "A Component-Based Approach for Constructing High-Confidence Distributed Embedded Systems", *Proceedings of the Monterey Workshop Series, 2005 Theme: Workshop on Networked Systems: Realization of Reliable Systems on Top of Unreliable Networked Platforms*, Laguna Beach, California, 2006.
103. Omkar Tilak, Rajeev R. Raje, "Temporal Interaction Contracts for Components in a Distributed System", *Proceedings of the 11th IEEE International Enterprise Distributed Object Computing Conference EDOC 2007*, Annapolis, Maryland, 2007.
104. Girish Joshi, Rajeev Raje, Mihran Tuceryan, "Designing and Experimenting with a Distributed Tracking System", *Proceedings of the 14th IEEE International Conference on Parallel and Distributed Systems*, Melbourne, Australia, 2008.
105. Rajeev R. Raje, Pratibha Katuri, Anjali Kumari, Omkar Tilak, "Multi-level Matching of Distributed Software Components", *Proceedings of the International Conference on Computer, Communication, and Instrumentation*, Mumbai, India, 2009.
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107. Ketaki A. Pradhan, Lahiru Gallege, Alfredo Moreno, Rajeev R. Raje, "MDE-URDS: A Mobile Device Enabled Service Discovery System", *Proceedings of the International Conference on Recent trends in Computing and Communications*, Chennai, India, 2009.
108. Omkar J. Tilak, Snehasis Mukhopadhyay, Rajeev R. Raje, Mihran Tuceryan, "A Novel Reinforcement Learning Framework for Sensor Subset Selection", *Proceedings of 2010 IEEE International Conference on Networking, Sensing, and Control*, Chicago, IL, 2010.
109. Rajeev R. Raje, Snehasis Mukhopadhyay, Sucheta Phatak, Rashmi Shastri, Lahiru Gallege, "Software Service Selection by Multi-Level Matching and Reinforcement Learning", *Proceedings of the 5th International ICST Conference on Bio-Inspired Models of Network, Information, and Computing Systems (in Cooperation with ACM SIGSIM)*, Boston, MA, 2010.
110. Ryan Rybarczyk, Rajeev R. Raje, Mihran Tuceryan, "A Next-generation of a Distributed Tracking System", *Proceedings of the International Conference On Demand Computing*, Bangalore, India, 2010.
111. Lahiru Gallege, Ketaki Pradhan, Rajeev R. Raje, "Experiments with a Multi-level Discovery System", *Proceedings of the 1st International Conference on Computing*, New Delhi, India, 2010.
112. Ryan Rybarczyk, Rajeev R. Raje, Mihran Tuceryan, "Enhancing a Distributed Tracking System", *Proceedings of the 3rd International Joint Conference on Information and Communication Technology*, Mumbai, India, 2011.
113. Lahiru S. Gallege, Dimuthu U. Gamage, James H. Hill, Rajeev R. Raje, "Towards a Comprehensive Method for Integrating Trust into Enterprise DRE Systems", *Proceedings of the 17th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications, Work-in-Progress Session*, Toyoma, Japan, 2011.

114. Lahiru S. Gallege, Dimuthu U. Gamage, James H. Hill, Rajeev R. Raje, "A Case Study in Composing a Trusted Distributed Real-time and Embedded (DRE) System", *Proceedings of the International Conference On Network Infrastructure Management Systems*, Mumbai, India, 2011.
115. Dimuthu U. Gamage, Zhisheng Huang, Andrew Olson, Rajeev R. Raje, "Creating QoS-aware Distributed Computing Systems Using UniFrame Approach", *Proceedings of the 2nd International Conference on Computing*, New Delhi, India, 2011.
116. Lahiru S. Gallege, Aboli J. Phadke, Rajeev R. Raje, Meghna Babbar-Sebens, "Cloud Service Selection from Earth Science Domain", *Proceedings of the 2nd International Conference on Recent Trends in Information Technology and Computer Science*, Mumbai, India, 2012.
117. Dimuthu U. Gamage, Lahiru S. Gallege, James H. Hill, Rajeev R. Raje, "A Compositional Trust Model for Predicting the Trust Value of Software System QoS Properties", *Proceedings of the 10th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing*, Paphos, Cyprus, 2012.
118. Lahiru S. Gallege, Dimuthu U. Gamage, James H. Hill, Rajeev R. Raje, "Trust Contract of a Service and its role in Service Selection for Distributed Software Systems", *Proceedings of the 8th Cyber Security and Information Intelligence Research Workshop*, Oak Ridge, TN, 2013.
119. Lahiru S. Gallege, Dimuthu U. Gamage, James H. Hill, Rajeev R. Raje, "Experimental Evaluation of Trustworthiness of Compositional Systems", *Proceedings of the 2nd International Conference On Network Infrastructure Management Systems*, Mumbai, India, 2013.
120. Ryan Rybarczyk, Rajeev R. Raje, Mihran Tuceryan, "eDOTS 2.0: A Pervasive Indoor Tracking System" *Proceedings of the International Conference on Software Engineering and Knowledge Engineering (SEKE'13)*, Boston, MA, 2013.
121. Lahiru S. Gallege, Dimuthu Gamage, James H. Hill, Rajeev R. Raje, "Trustworthy Service Selection using Long-term Monitoring of Trust Contracts", *Proceedings of the 17th IEEE International EDOC Conference*, Vancouver, Canada, 2013.
122. Lahiru S. Gallege, Dimuthu Gamage, James H. Hill, Rajeev R. Raje, "Towards Trust-Based Recommender Systems for Online Software Services", *Proceedings of the 9th Cyber Security and Information Intelligence Research Workshop*, Oak Ridge, TN, 2014.
123. Lakshmi Manohar Rao Velicheti, Dennis Feiock, T. Manjula Peiris, Rajeev R. Raje, James H. Hill, "Towards Modeling the Behavior of Static Code Analysis Tools", *Proceedings of the 9th Cyber Security and Information Intelligence Research Workshop*, Oak Ridge, TN, 2014.
124. Aboli Phadke, Ryan Rybarczyk, Rajeev R. Raje, Mihran Tuceryan, "Incorporating Mobile Devices in Indoor Tracking ", *Proceedings of the 3rd International Conference On Network Infrastructure Management Systems*, Mumbai, India, 2014.
125. Ruchika Malhotra, Rajeev R. Raje, "An Empirical Comparison of Machine Learning Techniques for Software Defect Prediction ", *Proceedings of the 8th International Conference on Bio-inspired Information and Communications Technologies*, Boston, MA, 2014.
126. Dimuthu Gamage, Lahiru S. Gallege, Rajeev R. Raje, "A QoS and Trust Prediction Framework for Context-Aware Composed Distributed Systems", *Proceedings of the 22nd IEEE International Conference on Web Services*, New York, NY, 2015.

127. Amrita Mangaonkar, Allenous Hayrapetian, Rajeev R. Raje, "Collaborative Detection of Cyberbullying Behavior in Twitter Data", *Proceedings of IEEE International Electro/Information Technology Conference*, Naperville, IL, 2015.
128. Ruchika Malhotra, Anuradha Chug, Allenous Hayrapetian, Rajeev R. Raje, "Analyzing and Evaluating Security Features in Software Requirements", *Proceedings of the International conference on Innovation and Challenges in Cyber Security (co-sponsored by IEEE)*, Noida, India, 2016.
129. Lahiru Gallege, Rajeev R. Raje, "Selecting and Recommending Online Software Services by Evaluating External Attributes", *Proceedings of 11th Annual Cyber and Information Security Research Conference*, Oak Ridge, TN, 2016.
130. Ryan Rybarczyk, Rajeev R. Raje, Mihran Tuceryan, "Infusing Trust in Indoor Tracking", *The 10th ACM International Conference on Distributed and Event-Based Systems*, Irvine, CA, 2016.
131. Dimuthu Gamage, Lahiru S. Gallege, Rajeev R. Raje, "A QoS and Trust Adaptation Framework for Composed Distributed Systems", *The 13th IEEE International Conference on Services Computing*, San Francisco, CA, 2016.
132. Sonali Sharma, Rajeev R. Raje, Ruchika Malhotra, "Towards Formalizing Adaptive Software Services", *IEEE India International Conference on Information Processing*, New Delhi, India, 2016.
133. Lahiru Gallege, Rajeev R. Raje, "Parallel Methods for Evidence and Trust based Selection and Recommendation of Software Apps from Online Marketplaces", *12th Annual Cyber and Information Security Research (CISR) Conference*, Oak Ridge, TN, 2017.
134. Boakye Dankwa, Raghavendran Vijayan, Darsh Sanghavi, Mihran Tuceryan, Rajeev R. Raje, "Trust in Vehicle-to-Vehicle Communication", *International Conference on Futuristic Trends in Computational Analysis and Knowledge Management (Technical Co-sponsor IEEE)*, Noida, India, 2017.
135. Zachary P. Reynolds, Abhinandan B. Jayanth, Ugur Koc, Adam Porter, Rajeev R. Raje, James H. Hill, "Identifying and Documenting False Positive Patterns Generated by Static Code Analysis Tools", *SER&IP Workshop in conjunction with ICSE*, Buenos Aires, Argentina, 2017.
136. Nahida Chowdhury, Rajeev R. Raje, "Disparity between the Programmatic Views and the User Perceptions of Mobile Apps", *20th IEEE ICCIT*, Dhaka, Bangladesh, 2017.
137. Allenous Hayrapetian, Rajeev R. Raje, "Empirically Analyzing and Evaluating Security Features in Software Requirements", *11th Innovations in Software Engineering Conference*, Hyderabad, India, 2018 (Accepted).

Conference Articles Under Review

138. George Mohler, Jeremy Carter, Rajeev Raje, "CDASH: Community Data Analytics for Social Harm Prediction and Intervention", *ACM Multimedia Systems Conference*, Amsterdam, Netherlands, 2018.

Other Publications

Editorial Comments

139. Rajeev R. Raje, “Distributed Computing: A Choice of the Present and the Future!”, Guest Editor’s Introduction, *ACM SIGAPP Applied Computing Review*, Vol. 7, No.1, Page: 4, Spring 1999.
140. Chang-Hyun Jo, Rajeev R. Raje, “Editorial Message: Special Track on Programming Languages and Object Technologies”, *Proceedings of ACM Symposium on Applied Computing, SAC’02*, 2002.
141. Rajeev R. Raje, Barrett R. Bryant, “Object-based Cluster Computing”, Guest Editor’s Introduction, *ACM SIGAPP Applied Computing Review*, 2002.
142. Barrett R. Bryant, Rajeev R. Raje, “Distributed Object and Component-based Software Systems”, Mini-track Introduction, *Thirty-sixth Annual Hawaii International Conference on System Sciences, HICSS-36*, 2003.
143. Chang-Hyun Jo, Rajeev R. Raje, “Editorial Message: Special Track on Programming Languages and Object Technologies”, *Proceedings of ACM Symposium on Applied Computing, SAC’03*, 2003.
144. Barrett R. Bryant, Rajeev R. Raje, “Distributed Object and Component-based Software Systems”, Mini-track Introduction, *Thirty-seventh Annual Hawaii International Conference on System Sciences, HICSS-37*, 2004.
145. Davide Ancona, Rajeev R. Raje, Mirko Viroli, “Editorial Message: Special Track on Object-oriented Programming Languages and Systems”, *Proceedings of ACM Symposium on Applied Computing, SAC’04, and SAC’05*, 2004 and 2005.
146. Barrett R. Bryant, Rajeev R. Raje, Vana Kalogeraki, “Distributed Object and Component-based Software Systems”, Mini-track Introduction, *Thirty-seventh Annual Hawaii International Conference on System Sciences, HICSS-37*, 2004.

Posters

147. Sivakumar Chinnasamy, Rajeev R. Raje, “Formal Specification of Software Design Patterns”, Poster at *Spring SERC Showcase*, 2000.
148. Rajeev R. Raje, Snehasis Mukhopadhyay, Mathew Palakal, Javed Mostafa, “SIFTER”, (Virtual Poster) at *Supercomputing*, 2000.
149. Rajeev R. Raje, Andrew Olson, Barrett Bryant, Mikhail Auguston, Carol Burt, “UniFrame”, at *Indiana SERC Fall showcase*, 2001.
150. Rajeev R. Raje, Natasha Gupta, Andrew Olson, Barrett Bryant, Mikhail Auguston, Carol Burt, “Encompassing .Net into UniFrame”, at *SERC Spring showcase*, 2002.
151. Rajeev R. Raje, Girish Brahnmath, Natasha Gupta, Andrew Olson, Barrett Bryant, Mikhail Auguston, Carol Burt, “QoS Framework of UniFrame”, at *SERC Fall showcase*, 2002.
152. Rajeev R. Raje, Andrew Olson, Barrett Bryant, Mikhail Auguston, Carol Burt, “UniFrame”, at *SERC Spring and Fall showcases*, 2003.

153. Pradeep Mysore, Rajeev R. Raje, Barrett Bryant, Purushotham Bangalore, "GridFrame", at *SIGSOFT'04*, 2004.
154. Rajeev R. Raje, Amruta Jejurikar, Saurabh Agrawal, Pratibha Katuri, Andrew Olson, "Experimenting with Multi-level Matching of Software Components", at *SERC Fall showcase*, 2006.
155. Subir K. Chakrabarti, Rajeev R. Raje, "Cloud Computing, Information Flow and Markets", NSF PI Meeting: The Science of Cloud, Arlington, VA, 2011.
156. Lahiru Gallege, Dimuthu Gamage, James Hill, Rajeev Raje, "Modeling, Specifying, Discovering, and Integrating Trust into Distributed Real-time and Embedded (DRE) Systems" S²ERC Showcase, Ames, IA, November 2011; Arlington, VA, May 2012; Muncie, IN; November 2012 and Chicago, IL, May 2013.
157. Ryan Rybarczyk, Rajeev R. Raje, Mihran Tuceryan, "e-DOT: An Indoor Distributed Tracking System", S²ERC Showcase, Ames, IA, November 2011, and Arlington, VA, May 2012.
158. Arjan Duresi, Rajeev R. Raje, "Trustworthy Cloud Computing using an Adaptive Architecture", S²ERC Showcase, Muncie, IN, November 2012.
159. James Hill, Rajeev R. Raje, "A Configurable Programming and Execution Model for Multi-core Architectures", S²ERC Showcase, Muncie, IN, November 2012.
160. James Hill, Rajeev R. Raje, "Testing-as-a- Service: Static Code Analysis (SCA) Tool Study", S²ERC Showcase, Muncie, IN, November 2012.
161. Lahiru S. Gallege, Dimuthu U. Gamage, James H. Hill, Rajeev R. Raje, "Trusted Service Representation and Selection for Generating Distributed Real-time and Embedded (DRE) Systems", IUPUI Research Day, 2012.
162. Sonali Sharma, Rajeev R. Raje, "A Framework for Creating Adaptive Software Services and Distributed Systems", S²ERC Showcase, Muncie, IN, November 2012.
163. Dimuthu U. Gamage, Lahiru S. Gallege, James H. Hill, Rajeev R. Raje, "Trusted Service Composition for Distributed Real-Time and Embedded (DRE) Systems", IUPUI Research Day, 2012.
164. Ryan Rybarczyk, Rajeev R. Raje, Mihran Tuceryan, "e-DOTS: An Indoor Tracking Solution", IUPUI Research Day, 2012 and 2013.
165. Lakshmi Manohar Rao Velicheti, Dennis C. Feiock, Rajeev R. Raje, James H. Hill, "Qualitative and Quantitative Evaluation of Static Code Analysis Tools", IUPUI Research Day, 2013.
166. Ryan Rybarczyk, Rajeev R. Raje, Mihran Tuceryan, "Opportunistic Indoor Tracking", IUPUI Innovation to Enterprise Showcase & Forum, 2013.
167. Lakshmi Manohar Rao Velicheti, Dennis C. Feiock, Rajeev R. Raje, James H. Hill, "Testing-as-a- Service: Static Code Analysis (SCA) Tool Study", S²ERC Showcase, Chicago, IL, May 2013 Pensacola, FL, November 2013, Washington DC, May 2014, and Muncie, IN November 2014.
168. Lahiru Gallege, Dimuthu Gamage, James Hill, Rajeev Raje, "A Holistic Approach to Software Reuse" S²ERC Showcase, Pensacola, FL, November 2013.

169. Allenous Hayrapetian, Lahiru Gallege, James Hill, Rajeev Raje, "A Narrative-based Approach to Requirement Analysis", S²ERC Showcase, Washington DC, May 2014.
170. Ruchika Malhotra, James Hill, Rajeev Raje, "Development of a Defect Prediction System using Machine Learning Techniques" S²ERC Showcase, Muncie, IN, November 2014.
171. Amrita Mangaonkar, Allenous Hayrapetian, Rajeev Raje, "Detection of Cyberbullying in Twitter Data using Collaborative Approaches" S²ERC Showcase, Muncie, IN, November 2014.
172. Allenous Hayrapetian, Ruchika Malhotra, Rajeev Raje, "Analyzing and Evaluating Security Features in Software Requirements", S²ERC Showcase, Roanoke,VA, May 2015.
173. Rajeev Raje, Dimuthu Gamage, "Quantifying, Assessing and Composing Trust in IoT", S²ERC Showcase, Indianapolis, IN, November 2015.
174. Xia Ning, Rajeev Raje, "Ranking and Recommending Secure Services", S²ERC Showcase, Indianapolis, IN, November 2015.
175. Rajeev Raje, Lahiru Gallege, Ryan Rybarczyk, "Summarizing and Interpreting Semi-structured Data Over Long-term Using Evidences", S²ERC Showcase, Muncie, IN, May 2016.
176. Rajeev Raje, Ryan Rybarczyk, Xia Ning, Nahida Chowdhury, "Collecting and Analyzing Internal Evidences of Software Services via Model Checking", S²ERC Showcase, Washington DC, May 2017.

Abstracts

177. Michael Boyles, Nila Patel, Snehasis Mukhopadhyay, Rajeev Raje, "A Collaborative Approach to Information Filtering", *Proceedings of Argonne Symposium for Undergraduates*, pp: 33, 1996.
178. Michael Boyles, Nila Patel, Snehasis Mukhopadhyay, Rajeev Raje, "A Distributed Environment For Collaborative Information Filtering", *Proceedings of Second Indiana University Undergraduate Research Conference*, 1996.
179. Michael Boyles, Nila Patel, Snehasis Mukhopadhyay, Rajeev Raje, "The Effects of a "Timeout" Period for a Distributed Information Filtering System", *Proceedings of Butler University Undergraduate Research Conference*, pp: 38, 1997.

Technical Reports

180. Rajeev R. Raje, Daniel J. Pease, "A Class Algebra - A New Approach to Class Analysis", NY CASE Center, No. 9309, pp: 1-45, 1993.
181. Sivakumar Chinnasamy, Yi Dai, Rajeev R. Raje, "Formalization of Design Pattern Specifications: A Survey", Department of Computer and Information Science Technical Report, TR-CIS-0799-14, 1999.
182. Girish Brahmamath, Rajeev R. Raje, Andrew Olson, Changlin Sun, "Quality of Service Catalog for Software Components", Technical Report (TR-CIS-0219-01), Department of Computer and Information Science, Indiana University-Purdue University Indianapolis, 2001.

183. Carol Burt, Barrett R. Bryant, Rajeev R. Raje, Andrew Olson, Mikhail Auguston, “An analysis of Distributed Component Architectures Standards and the QOS standards Needed to Progress Unification”, Technical Report (CIS-TR-2001-11), Department of Computer and Information Sciences, University of Alabama at Birmingham, 2001.

Faculty Mentor for Stand-alone Student Publications

184. Joseph Williams, “An Implicit Object Oriented Programming Environment Based on OFFERS” – Proceedings of First Indiana University Undergraduate Research Conference, 1995.
185. Sivakumar Chinnasamy, “Analysis of Design Patterns”, *IUPUI School of Science Graduate Research Symposium*, 1999.
186. Lahiru Gallege, “TruSSCom: Proposal for Trustworthy Service Representation, Selection and Negotiation for Integrating Software Systems”, *ACM SPLASH Doctoral Symposium*, 2013.
187. Ryan Rybarczyk, “Proposal for Managing Sensor Selection Through The Integration of Trust for Indoor Tracking Systems”, *IEEE PerCom Doctoral Symposium*, 2015 – *Won the IEEE TCPP Best Poster and Presentation Award (\$1000)*.

Presentations

Tutorials

1. “Distributed-Object Computing – An Overview of Java-RMI and CORBA” – At the Fifth International Conference on Advanced Computing, organized in-cooperation with IEEE Computer Society, ADCOMP’97 – December 1997.
2. “Multi-agent Systems” – In the Spring 2000 Meeting of the Institute for Operation Research and the Management Sciences (INFORMS) Computing Society, May 2000.

Invited Talks

(This list does not include presentations delivered at conferences and workshops.)

1. “The applications of VISRAM/DIMOS to Industrial Automation”, Industrial Workshop in Siemens Limited, Bombay, India, June 1987.
2. “Object-Flow - A Symbiosis of Object Oriented Design and Data-Flow Analysis”, Minnowbrook Workshop on *Software Engineering for Parallel Computing*, New York, August 1992.
3. “Can Object-Oriented Design and Data-Flow Computation Complement Each Other Well?”, At Victoria Jubilee Technical Institute, Bombay, India, September 1992.
4. “Object-Oriented Program Partitions”, United Technologies Research Center, Hartford, Connecticut, January 1994.
5. “A Boolean Algebra of Classes”, Tektronix Laboratories, Hillsboro, Oregon, February 1994.
6. “Object-Flow - A Symbiosis of Object Oriented Design and Data-Flow Analysis”, Department of Computer and Information Science, Indiana University-Purdue University Indianapolis, Indianapolis, IN, May 1994.
7. “HPJava - A Solution to Meta-Challenges”, Department of Computer and Information Science, Indiana University-Purdue University Indianapolis, Indianapolis, IN, April 1996.

8. "Computer Science – What is it Exactly?", To Ben Davis High School Students, Indianapolis, IN, May 1996.
9. "Collaborative Visualization", Partners of IU's Virtual Reality Initiative, Indianapolis, IN, May 1997.
10. "Principles of Distributed-Object Computing and their relation to PLC Programming", Concept Engineers Incorporated, Mumbai, India, December 1997.
11. "Experiences with the Java-RMI Paradigm for Distributed Computing" – Software Technology Committee of the Indiana Business Modernization & Technology Corporation, Indianapolis, IN, March 1998.
12. "Experiments with Distributed-Object Systems", At Delco Electronics Incorporated, Kokomo, IN, April 1998.
13. "Knowledge Sharing and Collaboration: Applications in Bioinformatics Research, (joint), Eli Lilly & Company, Indianapolis, IN, September 1998.
14. "Distributed-object Computing using Java-RMI", 1998 Indianapolis Client/Server and Internet Developer's Conference, Indianapolis, IN, October 1998.
15. "Distributed Computing with Java-RMI", Indianapolis Java User's Group, Indianapolis, IN, May 1999.
16. "Distributed Software Systems – Development, Testing and Reliability" (joint), at Microsoft Corporation, Redmond, WA, June 1999.
17. "Knowledge Sharing and Collaboration: Applications in Bioinformatics Research", Software Technology Committee of the Indiana Business Modernization & Technology Corporation, Indianapolis, IN, September 1999.
18. "An Intelligent Information Filtering System for Digital Libraries", (joint), NSF Digital Libraries Initiative All-Projects Meeting, Ithaca, NY, October 1999.
19. "On Designing a Multi-Agent System for Distributed Information Filtering", Fall 1999 Meeting of the Institute for Operation Research and the Management Sciences Computing Society, Philadelphia, PA, November 1999.
20. "UMM: Unified Meta-object Model and Global Systems", Department of Computer and Information Sciences, University of Alabama, Birmingham, AL, January 2000.
21. "Experiences in Building Distributed-object Systems" – *Plenary Speaker* – Symposium on Object-oriented Distributed Computing at the 77th Annual Meeting of the Alabama Academy of Science, Birmingham, AL, March 2000.
22. "D-SIFTER: A Case Study in Designing a Multi-Agent System", Spring 2000 Meeting of the Institute for Operation Research and the Management Sciences Computing Society, Salt Lake City, UT, May 2000.
23. "Distributed-object Systems", IBM Watson Research Center, Hawthorne, NY, May 2000.
24. "SIFTER: A Content-based Information Filtering System" (joint), NSF Digital Libraries Initiative All-Projects Meeting, Stratford-upon-Avon, England, June 2000.

25. "D-SIFTER: A Distributed Information Filtering System", NSF Digital Libraries Initiative All-Projects Meeting, Stratford-upon-Avon, England, June 2000.
26. "Distributed-object Systems", NiSys Corporation, Indianapolis, IN, July 2000.
27. "Heterogeneous Distributed-object Computing", Indiana SERC Showcase, Indianapolis, IN, June 2001.
28. "A Framework for Seamless Integration of Distributed Heterogeneous Software Components", ONR CIP/SW URI Meeting, Arlington, VA, July 2001.
29. "UniFrame" (joint), OMG Technical Meeting, Toronto, Canada, September 2001.
30. "UniFrame" (joint), Indiana SERC Fall Showcase, Ball State University, Muncie, IN, December 2001.
31. "UniFrame" (joint), OMG Technical Meeting, Anaheim, CA, February 2002.
32. "Encompassing .Net into UniFrame" (joint), SERC Spring Showcase, University of West Virginia, Morgantown, WV, May 2002.
33. "UniFrame", Office of Naval Research, London, England, May 2002.
34. "UniFrame", (joint), University of Edinburgh, Edinburgh, Scotland, May 2002.
35. "UniFrame", (joint), Lancaster University, Lancaster, England, May 2002.
36. "UniFrame", NSF US-EU Workshop, Landsdowne, VA, September 2002.
37. "QoS Framework of UniFrame" (joint), SERC Fall Showcase, Ball State University, Muncie, IN, December 2002.
38. "UniFrame", VJTI, University of Mumbai, Mumbai, India, December 2002.
39. "UniFrame", ONR, Harpers Ferry, VA, May 2003.
40. "UniFrame", ONR CIP/SW Review, Annapolis Junction, MD, November 2003.
41. "Model-driven Security: Unification of the Authorization Models for Fine-grain Access Control" (joint), SERC Fall Showcase, Ball State University, Muncie, IN, December 2003.
42. "Modeling Component Quality of Service" (joint), SERC Spring Showcase, West Virginia University, Morgantown, WV, May 2004.
43. "Experiments with the UniFrame Resource Discovery System", CS Department, University of Alabama at Birmingham and IEEE Computer Society Chapter, Birmingham, AL, July 2005.
44. "UniFrame: An Exercise in Developing Distributed Software Systems", Department of Information Systems and Operations Management, Ball State University, Muncie, IN, November 2005.
45. "Computer Science at IUPUI", Department of Computer Science, Ball State University, Muncie, IN, October 2006.
46. "Experimenting with Multi-level Matching of Software Components" (joint), *SERC Fall showcase*, Muncie, IN December 2006.

47. "Computer Science at IUPUI", Ruparel College, SIES College, Vivekanand College, Xavier Institute of Engineering, Kelkar College, Somaiya College, Sathye College, and VPM Polytechnic College, India, January 2008.
48. "Experiments with Multi-level Contracts and Matching in Distributed Systems – The UniFrame Way", Department of Electrical and Computer Engineering, IUPUI, Indianapolis, IN, February 2008.
49. "UniFrame", Research Day, IUPUI, Indianapolis, IN, March 2009.
50. "S²ERC Research at IUPUI", SERC Showcase, Indianapolis, IN, September 2009.
51. "MDE-URDS", VJTI, Mumbai, India, April 2011.
52. "MDE-URDS", VESIT, Mumbai, India, April 2011.
53. "A Distributed Framework for Location Tracking" (joint), S²ERC Showcase, Arlington, VA, May 2012.
54. "Modeling, Specifying, Discovering, and Integrating Trust into Distributed Real-time and Embedded (DRE) Systems" (joint), S²ERC Showcase, Ames, IA, November 2011; Arlington, VA, May 2012; Muncie, IN, November 2012; Chicago, IL, May 2013.
55. "Testing-as-a-Service: Static Code Analysis (SCA) Tool Study", (joint), S²ERC Showcase, Muncie, IN, November 2012; Chicago, IL, May 2013, Indianapolis, IN, November 2015.
56. "Trustworthy Cloud Computing using an Adaptive Architecture", (joint), S²ERC Showcase, Muncie, IN, November 2012.
57. "Using Multi-core Architectures to Improve Real-time Instrumentation Capabilities of Software Systems", (joint), S²ERC Showcase, Muncie, IN, November 2012.
58. "Trust in Distributed Software Systems", Keynote Address, 2nd International Conference On Network Infrastructure Management Systems, Mumbai, India, June 2013.
59. "A Holistic Approach to Software Reuse" S²ERC Showcase, Pensacola, FL, November 2013.
60. "A Narrative-based Approach to Requirement Analysis" (joint), S²ERC Showcase, Washington DC, May 2014.
61. "Development of a Defect Prediction System using Machine Learning Techniques" (joint), S²ERC Showcase, Muncie, IN, November 2014.
62. "Analyzing and Evaluating Security Features in Software Requirements", (joint) S²ERC Showcase, Roanoke, VA, May 2015.
63. "Ranking and Recommending Secure Services", (joint) S²ERC Showcase, Indianapolis, IN, November 2015.
64. "Quantifying, Assessing and Composing Trust in IoT", S²ERC Showcase, Indianapolis, IN, November 2015.
65. "Summarizing and Interpreting Semi-structured Data Over Long-term Using Evidences", (joint) S²ERC Showcase, Muncie, IN, May 2016.

66. “Collecting and Analyzing Internal Evidences of Software Services via Model Checking”, (joint) S²ERC Showcase, Washington DC, May 2017.
67. High-assurance, Quality-aware, and Verifiable Distributed Software Systems Still the Final Frontier?, National Institute of Technology – Calicut, India, 2018.

Professional Service

Editorial Boards

- Associate Editor – *International Journal of E-adoption* – 2008-Present
- Member of the Editorial Board – *Services Transactions on Internet of Things* – 2016-Present
- Member of the Editorial Board – *CSI Transactions on ICT* – 2011-2015
- Member of the Editorial Board – *Software Engineering: An International Journal* – 2011-Present
- Member of the Editorial Board – *International Journal of Information Technology, Communications and Convergence* – 2009-Present
- Guest Co-Editor – *ACM SIGAPP Computing Review – A Special Issue on Object and Component Technologies for Cluster Computing* – 2001/2002
- Guest Editor – *ACM SIGAPP Computing Review – A Special Issue on Distributed Computing – Spring 1999*

Conference Organization

- Track Co-chair – *Programming Languages Track – at the ACM Symposium on Applied Computing, SAC 2018.*
- Local Host – *Security and Software Engineering Fall Showcase (NSF Industry University Cooperative Research Center), 2015*
- Local Arrangements Chair – *ACM SPLASH Conference, 2013*
- Program Vice-Chair – *The IEEE International Conference on High Performance Computing and Communications (HPCC 2008 and 2010)*
- Program Vice-Chair – *The 14th IEEE International Conference on Parallel and Distributed Systems (ICPADS 2008)*
- Track Chair – *Networked Based Information Systems (NBIS), 2009*
- Member of the Advisory Board – *The 1st International Conference On Computer, Communication And Instrumentation (ICCCI 2009)*
- Track Co-Organizer – *Model-Based Software Engineering Track – at the Twentieth International Conference on Software Engineering and Knowledge Engineering, SEKE 2008*
- Publicity Chair of *Euro-PADS 1998, HiPC 2005-07.*
- Track Co-chair – *Object Oriented Programming and Systems – at the ACM Symposium on Applied Computing, SAC 2004, SAC 2005.*

- Mini-Track Co-Chair – *Distributed Object and Component-based Software Systems* – at the *Annual Hawaii International Conferences on System Sciences, HICSS-36 (2003), HICSS-37 (2004), HICSS-38 (2005)*.
- Track Co-chair – *Programming Languages and Object Technology* – at the *ACM Symposium on Applied Computing, SAC 2002, SAC 2003*.
- Mini-track Chair – *Distributed Objects and Components* – at the *ACM Symposium on Applied Computing, SAC 2001*.
- Workshop Co-chair – *IEEE International Workshop on Object and Component Technologies for Cluster Computing* – at the *IEEE International Symposium on Cluster Computing and the Grid, CCGRID 2001*.
- Session Chair – *ADCOMP 1997, Spring 2000 INFORMS, HICSS-36, ICICI 2009, NBiS 2009, INTERFACE 2011 and 13*.

Conference Program Committee Membership

- International Conference on Software and Knowledge Engineering (2008-Present)
- IEEE International Conference on Services Computing (2014-Present)
- IEEE International Conference on High Performance Computing and Communications (2013-14)
- ACM SAC, Cloud Computing Track (2016-17)
- 10th EAI International Conference on Bio-inspired Information and Communications Technologies (2015-17)
- HiPC Student Symposium (2009-10)
- IEEE International Conference on Algorithms and Architecture for Parallel Processing (2000, 2002, 2005, 2007-09, 2014-15)
- IEEE Enterprise Distributed Object Computing Conference (EDOC 2003-Present)
- 3rd International Conference on Network Infrastructure Management Systems (2014)
- International Conference on Soft Computing as Transdisciplinary Science and Technology (2008)
- International Conference on Digital Information Management (ICDIM 2007-08)
- Generative Programming and Component Engineering for QoS Provisioning in Distributed Systems (GPCE4QoS 2006)
- IEEE International Conference on Digital Information Management (ICDIM 2006-07)
- IEEE International Workshop on Trusted and Autonomic Computing Systems (TACS 2006)
- High Performance Computing Symposium (HPC 2004)
- 2nd International Conference on Web-based Learning (ICWL 2003)
- IEEE Advances in Digital Libraries (ADL 2000)

- First IEEE Computer Society International Workshop on Cluster Computing (IWCC 1999)
- Sixth International Conference on Advanced Computing (ADCOMP 1998)

External Reviewer

- National Science Foundation
- Kansas State University
- Naval Post-graduate School
- University of Missouri at Kansas City
- University of Alabama at Birmingham
- University of West Florida
- University of Colorado at Denver
- University of Washington at Tacoma
- Cleveland State University
- University of UAE

External Examiner for PhD Dissertations

- The Chinese University of Hong Kong
- The Hong Kong Polytechnic University
- RMIT
- Deakin University
- IIT-Delhi
- Tezpur University
- NIT-Calicut

Paper Reviewer

- IEEE Transactions on Cloud Computing
- Frontiers of Information Technology & Electronic Engineering
- IEEE Transactions on Software Engineering
- IEEE Computer
- IEEE Intelligent Systems
- Journal of Parallel and Distributed Computing
- Parallel and Distributed Computing Practice Journal
- Cluster Computing

- Concurrency and Computation: Practice and Experience
- ACTA International Journal of Computers and Applications
- IPSI Journal
- Electronics and Telecommunications Research Institute Journal
- Computer Languages, Systems & Structures Journal
- Journal of Systems and Software
- CSI Transactions on ICT
- Data and Knowledge Engineering Journal
- IEEE International Conference on Services Computing
- IEEE International Conference on High Performance Computing and Communications
- International Conference on Software and Knowledge Engineering
- IEEE Enterprise Distributed Computing Conference
- Hawaii International Conference On System Sciences
- IEEE International Conference on Algorithms and Architecture for Parallel Processing
- ACM Symposium on Applied Computing
- IEEE Advances in Digital Libraries
- European Conference on Parallel Computing
- Parallel and Distributed Computing Systems Conference
- John Wiley and Sons, Inc.
- Prentice-Hall, Inc.
- Scott-Jones Publishing Company
- Morgan-Kaufman Publishing Company
- Memberships: ACM (Senior Member) and IEEE (Senior Member)

Service
IUPUI

- Top 100 Judge (2012-2016)
- Office of Vice Chancellor for Research [Proposal Reviewer] (2011-12, 2017)
- India Interest Group [Member] (2010-)
- Campus Tenure and Promotion Committee (2010-11)
- Centrality Study Group (1995-96)

- Science Olympiad [Volunteer] (1995)

School of Science

- Unit Committee [Member and/or Chair] (2010-12; 2012-)
- Task Force for P&T Guidelines [Member and/or Coordinator] (2014-)
- Graduate Education Committee [Member] (2013-15)
- Ad-Hoc Committee for P & T Guidelines [Member] (2012-13)
- Dean Search Committee [Member] (2007-08, 2010-11)
- Graduate Affairs Committee [Member] (2003-08)
- Associate Dean Search Committee [Member] (2008)
- Graduate Training Strategic Working Group [Member] (2007)
- Faculty Grant Workshop [Panelist] (2006)
- Nomination and Awards Committee [Member and Chair] (2005-06)
- Academic Appeals Committee [Member and Chair] (1998-99)
- Windows on Science Program [Mentor] (1997-98)
- Learning and Assessment Committee [Member] (1997-98)

Department of Computer and Information Science

- Acting Chair (Fall'15)
- Interim Associate Chair and Associate Chair (2006-07; 2007-Spring'15; Spring'16-)
- Industrial Partnership Program [Co-Coordinator] (2017-)
- Faculty Search Committee [Member and/or Chair] (2008-10, 2013-14, 2016-17)
- Chairman Selection Committee [Member] (1997, 2007)
- Research & Infrastructure Committee [Member] (1997-00)
- Graduate Committee [Chair] and Graduate Program Director (2006-2015)
- Undergraduate Committee [Member and/or Chair] (1996-97, 1998-99, 2001-02, 2016-)
- Seminar and Colloquia Committee [Chair] (2002-03)
- Primary Committee [Member and/or Chair] (2006-08, 2010-)

Courses Taught

- Graduate Courses: Distributed-object Computing, Object-oriented Design and Programming, Programming Languages, Operating Systems, Introduction to Distributed Computing, Advanced Distributed Computing

- Undergraduate Courses: Operating Systems, Exploration in Computing, High Performance Computing, Programming Languages, Systems Programming, Advanced Programming, Computing I, Computing II, Problem Solving Using C++

Student Supervision

- Post-doctoral: Ruchika Malhotra
- PhD: Nahida Chowdhury, Lahiru Gallege, Dimuthu Gamage, Ryan Rybarczyk, Fei Cao (joint-UAB), Wei Zhao (joint-UAB), Alex Liu (joint-UAB)
- MS: Sivakumar Chinnasamy, Mingyong Qiao, Nanditha Nayani, Girish Brahmamath, Zhisheng Huang, Changlin Sun, Natasha Gupta, Praveen Gopalkrishna, Pradeep Mysore, Anjali Kumari, Barun Devaraju, Alex Crespi, Srikanth Reddy, Zhun Li, Liying Tang, William Higdon, Robert Berbeco, Kalpana Tummala, Jayasree Gandhamaneni, Padma Kambhupati, Ravi Bulusu, Richard Neidermyer, Pratibha Katuri, Omkar Tilak, Amruta Jejurikar, Girish Joshi, Sucheta Phatak, Neha Talavdekar, Ketaki Pradhan, Ryan Rybarczyk, Aboli Phadke, Allenous Hayrapetian, Pradeep Gowda, Rajesh Kumar, Amrita Mangaonkar, Abhinandan Jayanth (joint), Zachary Reynolds (joint), Ashish Chaturvedi, Apeksha Jangam, Vishwesh Janardhana, Saurabh Pandey
- PhD/MS Thesis/Project Committee Member: Nyalia Lui, Enas Alikhasashneh, Raja Dheekonda, Arvind Nair, Harold Owens, Weijian Zhang, Yuankun Fu, Savitha Baskaran, Geetha Satyanarayana, Hareesh Sandupatla, Mike Du, Sricharan Lochan, Lakshmi Velicheti, Shalini Ravishankar, Jeff Kriske, Mohammed Rangwala, Newlyn Erratt, Serena Gong, Tanumoy Pati, Venkatesh Bharadwaj, Mohit Sachan, Darshan Puranik, Omkar Tilak, Manjula Peiris, Harold Owens, Ashhar Madni, Xiang Ran, Yogesh Karandikar, Nikesh Patel, Kumar Abhishek, Joby Varghese, Shengquan Peng, Mathew Stephens, Michael Boyles, Srinivasan Sikkupparbathyam, Peng Zhang, Patrick Kennedy, Anthony Wagner, Wilfred Mascarenhas, Ming Zhong, Chih-feng Lin
- BS: Michael Boyles, Nila Patel, Joseph Williams, Muris Ridzal, James Freeman, Joseph Hansome, Ravi Patel, Zachary Reynolds (joint), Sujana Oruganti (joint)