

Hai Jiang

Associate Professor
(870)680-8164
hjiang@astate.edu

Current Position

Position Title: Associate Professor
Current Academic Rank: Associate Professor
Rank Since: Fall 2009

Degrees

Ph.D. Computer Science, Wayne State University, Detroit, Michigan 2003
M.A. Computer Science, Wayne State University, Detroit, Michigan 1995

Scholarly Contributions and Creative Productions

Books

Chaudhary, V., Jiang, H., & Walters, J.P. (2009). Computation Checkpointing and Migration. Nova Science Publishers, Inc..

Chapters

Jiang, H., & Ji, Y. (2009). State-Carrying Code for Computation Mobility. In K.-C. Li, C.-H. Hsu, L. T. Yang, J. Dongarra, H. Zima (Ed.), Handbook of Research on Scalable Computing Technologies. IGI-Global.

Chaudhary, V., & Jiang, H. (2006). Techniques for Migrating Computations on the Grid. Engineering the Grid: Status and Perspective. American Scientific Publishers.

Jiang, H., Chaudhary, V., & Walter, J.P. (2005). Data Conversion for Heterogeneous Migration/Checkpointing. High Performance Computing: Paradigm and Infrastructure. Wiley-Interscience.

Grants

Jiang, H. (2013). Student Undergraduate Research Fellowship (SURF). Arkansas Department of Higher Education & ASU - \$4,000.00.

Zhang, B., & Su, H. (2012). Dynamics of Relativistic Heavy Ion Collisions. National Energy Research Scientific Computing Center.

Zhang, B., Jiang, H., & Su, H. (2012). Dynamics of Relativistic Heavy Ion Collisions. National Energy Research Scientific Computing Center.

Zhang, B., & Su, H. (2012). Dynamics of Relativistic Heavy Ion Collisions. National Energy Research Scientific Computing Center.

Zhang, B., & Su, H. (2012). Dynamics of Relativistic Heavy Ion Collisions. National Energy Research Scientific Computing Center.

Zhang, B., & Su, H. (2012). Dynamics of Relativistic Heavy Ion Collisions. National Energy Research Scientific Computing Center.

Zhang, B., & Su, H. (2012). Dynamics of Relativistic Heavy Ion Collisions. National Energy Research Scientific Computing Center.

Jiang, H. (2011). Agreement between Protech and ASU. ProtechSoft, Inc. - \$32,400.00.

Jiang, H. (2011). ASU Undergraduate Research. Arkansas State University - 3200.

Zhang, B., & Su, H. (2011). Dynamics of Relativistic Heavy Ion Collisions. National Energy Research Scientific Computing Center.

Jiang, H. (2010). CUDA Teaching Center. NVIDIA - 2750.

Zhang, B., & Su, H. (2010). Dynamics of Relativistic Heavy Ion Collisions. National Energy Research Scientific Computing Center.

Jiang, H. (2010). The Cyberinfrastructure of AR. ASTA - \$311,066.00.

Jiang, H. (2009). CI TRAIN. National Science Foundation - 85195.

Zhang, B., & Su, H. (2009). Dynamics of Relativistic Heavy Ion Collisions. National Energy Research Scientific Computing Center.

Zhang, B., & Su, H. (2008). Dynamics of Relativistic Heavy Ion Collisions. National Energy Research Scientific Computing Center.

Jiang, H., & Jenness, J. (2008). Faculty Research Fund: A Framework of State-Carry Computing for Scientific Applications. Arkansas State University - 4400.

Jiang, H., & Jenness, J. (2007). Faculty Research Fund: Adaptive Data Sharing in High Performance Scientific Computing. Arkansas State University - 3500.

Journal Publications

Ji, Y., Jiang, H., & Chaudhary, V. (2011). A Heuristic Checkpoint Placement Algorithm for Adaptive Application-Level Checkpointing. International Journal of Applied Science and Technology.

Meng, X., Ji, Y., & Jiang, H. (2010). Advanced Acceleration Technologies for Biological Sequence Analysis. Current Bioinformatics, 5(2),.

Jiang, H. (2010). A Trustworthy Storage System with Variable Data Partitioning. Journal of Systemics and Informatics World Network.

Jiang, H. (2004). Experiments with Parallelizing Tribology Simulations. The Journal of Supercomputing - Special Issue on High Performance Scientific and Engineering Applications.

Shen, F., Jiang, H., Yang, L.T., Jeong, Y., & Chen, S. (2013). A Secure File Storage System with Scaled Secret Sharing. Information.

Presentations

Jiang, H. (2009). HASS: Highly Available, Scalable and Secure Distributed Data Storage Systems. the 2009 IEEE/IFIP International Symposium on Trusted Computing and Communications.

Jiang, H. (2009). MCD: Mesh Closure Detection for Localized Load Balancing in Scientific Applications. the 12th IEEE International Conference on Computational Science and Engineering.

Jiang, H. (2009). MM-DSM: Multi-threaded Multi-home Distributed Shared Memory Systems. the 2009 IEEE International Symposium on Parallel and Distributed Processing with Applications.

Jiang, H. (2008). Adaptive and Fault Tolerant Simulation of Relativistic Particle Transport with Data-level Checkpointing. The 11th IEEE International Conference on Computational Science and Engineering.

Jiang, H. (2008). Parallel and Distributed Particle Collision Simulation with Decentralized Control. The 3rd International Conference on Grid and Pervasive Computing.

Jiang, H. (2007). Toward Optimizing Particle Simulation Systems. The 7th International Conference on Computational Science.

Proceedings Publications

Calhoun, J., Graham, J., Zhou, H., & Jiang, H. (2012). Acceleration of Generalized Minimum Aberration Designs of Hadamard Matrices on Graphics Processing Units. Proceedings of the Fifth International Symposium on Advances of High Performance Computing and Networking,

Chen, S., Chen, Y., Jiang, H., Yang, L.T., & Li, K. (2012). A Secure Distributed File System Based on Revised Blakley's Secret Sharing Scheme. Proceedings of the 11th IEEE International Conference on Trust, Security and Privacy in Computing and Communications,

Shen, F., Jiang, H., Yang, L.T., & Chen, S. (2012). A Secure File Storage System with Scaled Secret Sharing. Proceedings of the 2012 Summer FTRA International Symposium on Advances in Cryptography, Security and Applications for Future Computing,

Ou, H., Jenness, J., Huang, Y., & Jiang, H. (2012). Automatic GPU Programming in .NET. Proceedings of the Fourth International Symposium on Computer Science and Technology,

Chen, S., Bai, L., Chen, Y., Jiang, H., & Li, K. (2012). Deploying Scalable and Secure Secret Sharing with GPU Many-Core Architecture. Proceedings of the 13th IEEE International

Workshop on Parallel and Distributed Scientific and Engineering Computing,

Zhang, Y., Hall, J., & Jiang, H. (2012). Development on Gossip Trust for Reputation Systems in Unstructured Peer-to-Peer Networks. Proceedings of the Fourth International Symposium on Computer Science and Technology,

Chen, Y., Chen, S., & Jiang, H. (2012). MapReduce Implementation with Multi-GPU. Proceedings of the Fourth International Symposium on Computer Science and Technology,

Zhang, C., Bai, L., Chen, S., & Jiang, H. (2012). On Virtual Machine Security Issues in Cloud Computing. Proceedings of the Fourth International Symposium on Computer Science and Technology,

Calhoun, J., & Jiang, H. (2012). Preemption of a CUDA Kernel Function. Proceedings of the 13th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing,

Chen, S., & Jiang, H. (2011). Accelerating Circle Detection based on Generalized Projection Method with GPUs. Proceedings of the 11th IEEE International Conference on Scalable Computing and Communications,

Chen, S., & Jiang, H. (2011). Accelerating the Hough Transform with CUDA on Graphics Processing Units. Proceedings of 2011 International Conference on Parallel and Distributed Processing Techniques and Applications,

Chen, S., Zhang, C., Shen, F., Bai, L., & Jiang, H. (2011). Achieving High Throughput Sequencing with Graphics Processing Units. Proceedings of 2011 International Conference on Parallel and Distributed Processing Techniques and Applications,

Chen, S., & Jiang, H. (2011). An Exact Matching Approach for High Throughput Sequencing based on BWT and GPUs. Proceedings of the 14th IEEE International Conference on Computational Science and Engineering,

Chen, S., Davis, S., Jiang, H., & Novobilski, A.J. (2011). CUDA-based Genetic Algorithm on Traveling Salesman Problem. Proceedings of the 10th IEEE/ACIS International Conference on Computer and Information Science,

Wang, Z., Graham, J., Ajam, N., & Jiang, H. (2011). Design and Optimization of Hybrid MD5-Blowfish Encryption on GPUs. Proceedings of 2011 International Conference on Parallel and Distributed Processing Techniques and Applications,

Ou, H., Davis, S., Zhang, C., & Jiang, H. (2011). Enabling .NET Programs for GPU-based High Performance Computing. Proceedings of the 23rd IASTED International Conference on Parallel and Distributed Computing and Systems,

Calhoun, J., Graham, J., & Jiang, H. (2011). On Using a Graphics Processing Unit to Solve the Closest Substring Problem. Proceedings of 2011 International Conference on Parallel and Distributed Processing Techniques and Applications,

Ji, X., Davis, S., Hardesty, E., Liang, X., Saha, S., & Jiang, H. (2011). Towards Utilizing Remote GPUs for CUDA Program Execution. Proceedings of 2011 International Conference on Parallel and Distributed Processing Techniques and Applications,

Wang, Z., Mei, C., Jiang, H., & Wilkin, G.A. (2010). An Asymmetric Data Conversion Scheme based on Binary Tags. Proceedings of the 10th IEEE International Conference on Scalable Computing and Communications,

Shen, F., Jiang, H., & Jenness, J. (2010). A Reliable File Management System based on Scaled Secret Sharing. Proceedings of the 2010 International Conference on Parallel and Distributed Processing Techniques and Applications,

Shen, F., & Jiang, H. (2010). A Trustworthy Storage System with Variable Data Partitioning. Proceedings of the 4th International Conference on Complex Distributed Systems,

Mei, C., Jiang, H., & Jenness, J. (2010). CUDA-based AES Parallelization with Fine-Tuned GPU Memory Utilization. 11th IEEE International Workshop on Parallel and Distributed Scientific and Engineering Computing,

Wang, Z., Mei, C., & Jiang, H. (2010). DataXchg: A Portable Data Exchange Toolkit for Heterogeneous Computing. Proceedings of the 9th IEEE/ACIS International Conference on Computer and Information Science,

Zhu, Y., Zhang, W., Jiang, H., Lei, Y., & Peng, J. (2010). DCMTs: Supporting Dynamically Created Migratory Threads. Proceedings of the 13th IEEE International Conference on Computational Science and Engineering,

Wang, Z., Mei, C., & Jiang, H. (2010). DMarshal: A Data Marshaling Toolkit for High Performance Heterogeneous Computing. Proceedings of the 2010 International Conference on Parallel and Distributed Processing Techniques and Applications,

Mei, C., Li, R., Zhou, H., & Jiang, H. (2010). Exploiting Bit and GPU-Thread Level Parallelism in Construction of Generalized Minimum Aberration Designs. Proceedings of the 2010 International Conference on Parallel and Distributed Processing Techniques and Applications,

Shen, F., Jiang, H., & Xu, Z. (2010). On Post-Generation Data Operations in Secure Distributed Storage Systems with Internal Padding. Proceedings of the 10th IEEE International Conference on Scalable Computing and Communications,

Mei, C., Jiang, H., & Jenness, J. (2010). Pitcher: Enabling Distributed Parallel Computing with Automatic Thread and Data Assignments. 24th IEEE International Conference on Advanced Information Networking and Application,

Shen, F., Mei, C., Jiang, H., & Xu, Z. (2010). Secret Sharing with Extended Coefficient Use for Improved Data Capacity. IEEE Southeast Conference,

Shen, F., & Jiang, H. (2010). SFS: A Secure File System with Scalability and Reliability Features on Distributed Storage Devices. Proceedings of the 9th IEEE/ACIS International Conference on Computer and Information Science,

Shen, F., Mei, C., Jiang, H., & Xu, Z. (2010). Towards Secure and Reliable Data Storage with Multi-coefficient Secret Sharing. Proceedings of the third IEEE International Symposium on Trust, Security and Privacy for Emerging Applications,

Tang, X., Zhou, X., & Jiang, H. (2009). A Policy Framework for Mobile Web Service Customization. Proceedings of the 2009 1st IEEE Symposium on Web Society,

Xu, Z., & Jiang, H. (2009). Data Protection in Object-Based Storage Devices. The 2009 International Conference on Security and Management,

Xu, Z., & Jiang, H. (2009). HASS: Highly Available, Scalable and Secure Distributed Data Storage Systems. The 2009 IEEE/IFIP International Symposium on Trusted Computing and Communications,

Mei, C., Jiang, H., & Jenness, J. (2009). Markov Clustering (MCL)- based Thread Grouping and Thread Selection. Proceedings of IEEE SoutheastCon,

Mei, C., Li, R., Jiang, H., & Jenness, J. (2009). MCD: Mesh Closure Detection for Localized Load Balancing in Scientific Applications. The 12th IEEE International Conference on Computational Science and Engineering,

Mei, C., Jiang, H., & Jenness, J. (2009). MM-DSM: Multi-threaded Multi-home Distributed Shared Memory Systems. The 2009 IEEE International Symposium on Parallel and Distributed Processing with Applications,

Mei, C., Jiang, H., & Jenness, J. (2009). MTS: Multiresolution Thread Selection for Parallel Workload Distribution. Proceedings of The 4th International Conference on Grid and Pervasive Computing,

Mei, C., Jiang, H., & Jenness, J. (2009). Thread Clustering and Selection Schemes for Medium-Grained Computation Migration. Proceedings of The Tenth International Conference on Software Engineering, Artificial Intelligence, Networking, and parallel/Distributed Computing,

Mei, C., Jiang, H., & Jenness, J. (2009). Towards Locality-Based Data Sharing Among Distributed Thread Bundles. The 2009 International Conference on Parallel and Distributed Processing Techniques and Applications,

Li, R., Jiang, H., Su, H., Zhang, B., & Jenness, J. (2008). Adaptive and Fault Tolerant Simulation of Relativistic Particle Transport with Data-level Checkpointing. Proceedings of 2008 IEEE 11th International Conference on Computational Science and Engineering,

Xu, Z., & Jiang, H. (2008). A Framework of Decentralized PKI Key Management Based on Dynamic Trust. Proceedings of the 2008 International Conference on Security and Management,

Li, R., Jiang, H., Su, H., Zhang, B., & Jenness, J. (2008). Coordination Schemes in Distributed Simulation of Relativistic Particle Transport. Proceedings of the 23rd ACM Symposium on Applied Computing 2008, Special Track on Advances in Computer Simulation,

King, R., & Jiang, H. (2008). CSPA: An Adder Faster Than Carry-Lookahead. Proceedings of the 2008 International Conference on Computer Design,

Li, R., Jiang, H., Su, H., Zhang, B., & Jenness, J. (2008). On Load Balancing Distributed Simulation of Relativistic Particle Transport. Proceedings of PDPTA'08 - The 2008 International Conference on Parallel and Distributed Processing Techniques and Applications,

Li, R., Jiang, H., Su, H., Zhang, B., & Jenness, J. (2008). Parallel and Distributed Particle Collision Simulation with Decentralized Control. Proceedings of GPC 2008, the 3rd International Conference on Grid and Pervasive Computing (Lecture Notes in Computer Science), 5036/2008, 244-255.

Su, H., Jiang, H., & Zhang, B. (2007). An Empirical Study on Many-Particle Collision Algorithms. Proceedings of the 22nd International Conference on Computers and Their Applications, 17-Dec.

Wilkin, A., & Jiang, H. (2007). Data Alignment and Padding Analysis for Heterogeneous Computing. 2007 International Conference on Parallel and Distributed Processing Techniques and Applications,

Su, H., Jiang, H., & Zhang, B. (2007). Flexible speculative parallelization of many-particle collision simulation. Proceedings of CAINE07, the 20th international conference on computer applications in industry and engineering,

Li, R., Jiang, H., Su, H., Zhang, B., & Jenness, J. (2007). Speculative and distributed simulation of many-particle collisions systems. Proceedings of ICPADS 2007, the 13th international conference on parallel and distributed systems,

Li, R., Jiang, H., Su, H., Jenness, J., & Zhang, B. (2007). Speculative Parallelization of Many-Particle Collision Simulations. Proceedings of PDPTA'07- The 2007 International Conference on Parallel and Distributed Processing Techniques and Applications,

Su, H., Jiang, H., & Zhang, B. (2007). Synchronization on speculative parallelization of many-particle collision. Proceedings of ICCSA'07, International conference on computer science and applications, World congress on engineering & computer science 2007,

Jiang, H., Su, H., & Zhang, B. (2007). Toward Optimizing Particle-Simulation Systems. Proceedings of the International Conference on Computational Science 2007,

Walters, J.P., Jiang, H., & Chaudhary, V. (2006). An Adaptive Heterogeneous Software DSM. Proceedings of Workshop on Compile/Runtime Techniques for Parallel Computing,

Ji, Y., Jiang, H., & Chaudhary, V. (2005). Adaptation Point Analysis for Computation Migration/Checkpointin. Proceedings of the 20th ACM Symposium on Applied Computing,

Ji, Y., Jiang, H., & Chaudhary, V. (2005). Adaptation Strategies for Application-Level Computation Migration/Checkpointing.

Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications,

Jiang, H. (2005). Migrating Processes/Threads in Grids. International Conference and Exposition on Communications and Computing,

Chaudhary, V., & Jiang, H. (2005). Migrating Processes/Threads in Grids. Proceedings of International Conference and Exposition on Communications and Computing,

Institutional Committees

University

Faculty Senate (University) Fall 2010 - Present

Other Institutional Service

College Curriculum Committee (University) Fall 2012 - Present

College PRT Committee (University) Fall 2010 - Present

(Other) IEEE Programming Competition (University) Fall 2010 - Fall 2005

(Committee Chair) Graduate Committee (University) Fall 2010

(Faculty Mentor) IEEE Programming Contest (University) Fall 2009 - Present

Judge for BEST Robotics Competition (University) Fall 2006 - Fall 2011

Professional Service

Program Committee Member, The 12th IEEE/ACIS International Conference on Computer and Information Science Summer 2013

Program Committee Member, The 14th IEEE International Workshop on Parallel and Distributed Scientific and Engineering Computing Summer 2013

Program Committee Member, The 3rd International Conference on Pervasive and Embedded Computing and Communication Systems Spring 2013

Program Committee Member, The 8th International Conference on Grid and Pervasive Computing Spring 2013

Program Committee Member, The 2nd International Conference on Cloud and Green Computing Fall 2012

Program Committee Member, The 2012 IEEE Asia-Pacific Services Computing Conference Fall 2012

Book reviewer, Morgan Kaufmann: Cloud Computing: Theory and Practice Fall 2012

General Chair, The 15th International Conference on Computational Science and Engineering Fall 2012

Workshop Organizer, The 2012 International Workshop on GPU Computing in Clouds Fall 2012

Program Chair, The 13th IEEE International Conference on Computational Science and Engineering Fall 2012

Book reviewer, Morgan Kaufmann: Cloud Computing: Technologies and Applications Programming Fall 2012

Program Committee Member, The 25th International Conference on Computer Applications in Industry and Engineering Fall 2012

Workshop Chair, The 7th International Conference on Future Information Technology Summer 2012

Program Committee Member, The 11th IEEE International Conference on Ubiquitous Computing and Communications Summer 2012

Publication Chair, The 5th IET International Conference on Ubi-media Computing Summer 2012

Program Committee Member, The 11th IEEE International Conference on Trust, Security and Privacy in Computing and Communications Summer 2012

Program Committee Member, The 14th IEEE International Conference on High Performance Computing and Communications Summer 2012

Program Committee Member, The 13th IEEE International Workshop on Parallel and Distributed Scientific and Engineering Computing Summer 2012

Book reviewer, Morgan Kaufmann: Virtual Machines Summer 2012

Program Committee Member, The 11th IEEE/ACIS International Conference on Computer and Information Science Summer 2012

Program Committee Member, The 27th IEEE International Conference on Advanced Information Networking and Applications Spring 2012

Program Committee Member, The 7th International Conference on Grid and Pervasive Computing Spring 2012

Journal Editorial Board Member, International Journal of Computational Science and Engineering Spring 2012 - Present

Program Committee Member, The 10th IEEE International Conference on Trust, Security and Privacy in Computing and Communications Fall 2011

Program Committee Member, The 10th IEEE International Symposium on Scalable Computing and Communications Fall 2011

Workshop Chair, The 9th IEEE International Symposium on Parallel and Distributed Processing with Applications Fall 2011

Program Committee Member, The International Conference on Cloud and Green Computing Fall 2011

Program Committee Member, The International Conference on Communication Systems and Network Technology Fall 2011

Program Committee Member, The 10th IEEE International Conference on Ubiquitous Computing and Communications Fall 2011

Program Committee Member, The Third International Conference on Advances in P2P Systems Fall 2011

Book reviewer, Morgan Kaufmann: Distributed and Cloud Computing Fall 2011

Program Committee Member, The International Conference on Computational Intelligence and Communications Fall 2011

Program Committee Member, The 12th IEEE International Workshop on Parallel and Distributed Scientific and Engineering Computing Summer 2011

Program Committee Member, 3rd Workshop on Grid and P2P Systems and Applications Summer 2011

Program Committee Member, The 14th IEEE International Conference on Computational Science and Engineering Summer 2011

Program Committee Member, 10th IEEE/ACIS International Conference on Computer and Information Science Summer 2011

Program Committee Member, 1st International Conference on Pervasive and Embedded Computing and Communication Systems Summer 2011

Program Committee Member, The 10th IEEE International Symposium on Scalable Computing and Communications Fall 2010

Program Committee Member, The 5th International Conference on Grid and Pervasive Computing Fall 2010

Program Committee Member, The 11th IEEE International Workshop on Parallel and Distributed Scientific and Engineering Computing Fall 2010

Program Committee Member, The Second International Conference on Advances in P2P Systems Fall 2010

Program Committee Member, 2010 IEEE Asia-Pacific Services Computing Conference Fall 2010

Program Committee Member, The 2010 IEEE/IFIP International Symposium on Trusted Computing and Communications Fall 2010

Program Committee Member, The 24th IEEE International Conference on Advanced Information Networking and Application Fall 2010

Program Committee Member, The 10th International Conference on Algorithms and Architectures for Parallel Processing Fall 2010

Program Committee Member, The 2010 IEEE/IFIP International Symposium on Trusted Computing and Communications Fall 2010

Program Committee Member, The Third IEEE International Symposium on Trust, Security and Privacy for Emerging Applications Fall 2010

Program Committee Member, 4th International Workshop on Localized Algorithms and Protocols for Wireless Sensor Networks Summer 2010

Grant Proposal Reviewer, National Science Foundation Spring 2010

DoE SGIG Merit Reviewer, Department of Energy Spring 2010

Program Committee Member, India 1st International Conference on Computational Intelligence, Communication Systems and Networks Fall 2009

Program Committee Member, International Conference on Complex, Intelligent and Software Intensive Systems Fall 2009

Program Committee Member, The 2009 IEEE Asia-Pacific Services Computing Conference Fall 2009

Program Committee Member, The 2009 IEEE International Symposium on Trust, Security and Privacy for Pervasive Applications Fall 2009

Program Committee Member, The 2009 IEEE/IFIP International Symposium on Trusted Computing Fall 2009

Program Committee Member, The 2009 International Conference on Frontier of Computer Science and Technology Fall 2009

Program Committee Member, The 4th International Conference on Complex, Intelligent, and Software Intensive Systems Fall 2009

Program Committee Member, The First International Conference on Advances in P2P Systems Fall 2009

Program Committee Member, IEEE Workshop on Grid and P2P Systems and Applications Fall 2009

Workshop Organizer, The 2009 International Workshop on GPU Technologies and Applications Fall 2009

Program Chair, The 12th IEEE International Conference on Computational Science and Engineering Fall 2009

Program Committee Member, The International Conference on Security and Cryptography Fall 2009

Editorial Review Board Member, Special Issue on Toward Merging Green, Intelligent, and Mobility Services, International Journal of Information Systems in Service Sector Fall 2009

Program Committee Member, The 4th International Conference on Grid and Pervasive Computing Fall 2009

Program Committee Member, Second World Summit on Knowledge Society Fall 2009

Reviewer, Journal Article, The International Journal for Computers and Their Applications Fall 2009

Program Committee Member, Second World Summit on Knowledge Society Fall 2009

Program Committee Member, The 10th IEEE International Workshop on Parallel and Distributed Scientific and Engineering Computing Fall 2009

Program Committee Member, The 2009 IEEE International Symposium on Trust, Security and Privacy for Pervasive Applications Fall 2009

Program Committee Member, The 2009 IEEE/IFIP International Symposium on Trusted Computing Fall 2009

Program Committee Member, The 2009 International Conference on Frontier of Computer Science and Technology Fall 2009

Program Committee Member, The First International Conference on Advances in P2P Systems Fall 2009

Program Committee Member, The First International Symposium on Cyber-Physical Intelligence Fall 2009

Program Committee Member, The IEEE 23rd International Conference on Advanced Information Networking and Applications Fall 2009

DoE SGIG Merit Reviewer, Department of Energy Spring 2009

Reviewer, Journal Article, IEEE Transactions on Automation Science and Engineering Fall 2008

Program Committee Member, The 2008 International Conference on Modeling, Simulation and Visualization Methods Fall 2008

Program Chair, International Symposium on Advances in Parallel and Distributed Computing Techniques Fall 2008

Grant Proposal Reviewer, National Science Foundation Fall 2008

Program Committee Member, The Third International ICST Conference on Scalable Information Systems Fall 2008

Program Committee Member, The International Conference on High Performance Computing and Communications Fall 2008

Program Committee Member, The Third International Conference on Grid and Pervasive Computing Fall 2008

Program Committee Member, 2008 IEEE Asia-Pacific Services Computing Conference Fall 2008

Program Committee Member, First World Summit on Knowledge Society Fall 2008

Program Committee Member, The 2008 International Conference on Security and Management Fall 2008

Program Committee Member, The International Conference on Security and Cryptography Fall 2008

Program Committee Member, The 2008 International Conference on Parallel and Distributed Processing Techniques and Applications Fall 2008

Editorial Review Board Member, Special Issue of Wireless Personal Communications on Information Security and Data Protection in Future Generation Communication and Networking Fall 2008

Program Committee Member, The 2008 International Conference on Networking, architecture, and Storage Fall 2008

Reviewer, Journal Article, The Journal of Supercomputing Fall 2008

Reviewer, Journal Article, Special Issue of Wireless Personal Communications on Information Security and Data Protection in Future Generation Communication and Networking Fall 2008

Reviewer, Journal Article, IEEE Transactions on Parallel and Distributed Systems Fall 2008

Reviewer, Journal Article, IEEE Transactions on Computers Fall 2008

General Chair, Workshop on High Performance and Grid Computing in Medicine and Biology Fall 2008

Session Chair, The 2008 IEEE 11th International Conference on Computational Science and Engineering Fall 2008

Session Chair, The 3rd International Conference on Grid and Pervasive Computing Fall 2008

Publication Chair, The International Conference on High Performance Computing and Communications Fall 2008

Workshop Chair, The 2008 IEEE International Symposium on Parallel and Distributed Processing with Applications Fall 2008

Grant Proposal Reviewer, National Science Foundation Spring 2008

Publicity Chair, The International Conference on High Performance Computing and Communications Fall 2007

Program Committee Member, IFIP International Workshop on Information and Storage Management for Ubiquitous Computing Fall 2007

Program Committee Member, International Conference on Networking, Architecture and Storage Fall 2007

Program Chair, The Second International Workshop on Semantic and Grid Computing Fall 2007

Session Chair, The 2007 International Conference on Parallel and Distributed Processing Techniques and Applications Fall 2007

Reviewer, Journal Article, Concurrency and Computation: Practice and Experience Fall 2006

Reviewer, Journal Article, International Journal of Computers and Applications Fall 2006

Session Chair, Workshop on Compile/Runtime Techniques for Parallel Computing Fall 2006

Reviewer, Journal Article, IEICE Transactions on Information and Systems Fall 2005

Program Committee Member, International Conference on Wireless Networks Fall 2005

Honors and Awards

Outstanding Leadership Award, The 12th IEEE International Conference on Computational Science and Engineering 2009

Achievement Award for Advising, College of Sciences and Mathematics 2009

Outstanding Leadership Award, Organization Committee of the 2008 IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA-08) 2008

Teaching

Fall 2006 Courses:

CS 3333 1 - ASSEMBLY LANG PROGRAMMING

CS 6833 1 - PARALLEL PROCESSING

Spring 2007 Courses:

CS 3383 1 - COMPUTER ARCHITECTURE

CS 4583 1 - UNIX SYSTEMS PROGRAMMING

CS 5583 1 - UNIX SYSTEMS PROGRAMMING

Summer 2007 Courses:

CS 680V 2 - INDEPENDENT STUDY

Fall 2007 Courses:

CS 3333 1 - ASSEMBLY LANG PROGRAMMING

CS 6623 1 - DATA SECURITY

Spring 2008 Courses:

CS 3383 1 - COMPUTER ARCHITECTURE
CS 6853 1 - SPEC TOP DISTRIBUTED SYSTEMS

Fall 2008 Courses:

CS 3213 001 - Assembly Language Programming
CS 6213 1 - PARALLEL PROCESSING

Spring 2009 Courses:

CS 3223 001 - Computer Organization
CS 4223 001 - UNIX Systems Programming

Summer 2009 Courses:

CS 689V 1 - THESIS DIST SCHEDUL ALGORITHMS

Fall 2009 Courses:

CS 3213 001 - Assembly Language Programming
CS 3233 001 - Operating Systems
CS 6313 1 - DATA SECURITY

Spring 2010 Courses:

CS 3223 001 - Computer Organization
CS 6823 1 - SPEC TOP DISTRIBUTED SYSTEMS

Summer 2010 Courses:

CS 689V 1 - THESIS COMP SCIENCE THESIS HRS

Fall 2010 Courses:

CS 3223 001 - Computer Organization
CS 3223 002 - Computer Organization
CS 6213 1 - PARALLEL PROCESSING

Spring 2011 Courses:

CS 4223 001 - UNIX Systems Programming
CS 4933 2 - HNRS MULTICORE ARCH AND PROG
CS 6823 2 - SPT HIGH PERFORMANCE COMPUTING

Summer 2011 Courses:

CS 689V 2 - THESIS DISTRIBUTED STORAGE DEV
CS 689V 5 - THESIS HETEROGENEOUS COMPUTING

Fall 2011 Courses:

CS 6313 1 - DATA SECURITY
CS 689V 1 - THES MAPREDUCE ON GPU CLUSTERS
CS 689V 3 - THESIS NET HIGH PERF COMPUTING

Spring 2012 Courses:

CS 6823 1 - SP TOP DISTRIBUTED SYSTEMS
CS 6823 3 - SP TOP HIGH PERF COMPUTING
CS 688V 1 - IND ST MOBILE COMPUTING
CS 689V 1 - THESIS NET HIGH PERF COMPUTING
CS 689V 2 - THESIS GPU HIGH PERF COMPUTING

Summer 2012 Courses:

CS 689V 2 - THESIS GPU BASED COMPUTING
CS 689V 3 - THESIS NET HIGH PERF COMPUTING

Fall 2012 Courses:

CS 3223 001 - COMPUTER ORGANIZATION
CS 6213 001 - PARALLEL PROCESSING