

WEISONG SHI

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RESEARCH INTERESTS

Edge Computing, Big Data Systems, Energy-Efficient Computer Systems, Mobile and Connected Health

LEADERSHIP

Director, Connected and Autonomous Driving Laboratory (CAR Lab) (<http://cedar.wayne.edu/carlab/>)
Director, Mobile and Internet Systems Laboratory (<http://mist.cs.wayne.edu>)
Director, Cyber-Physical Systems Program (<http://engineering.wayne.edu/cyber/>)
Director, Wireless Health Initiative (<http://wirelesshealth.wayne.edu>)

EDUCATION

Ph.D., Computer Engineering Sep '95 – Mar '00
Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China
Adviser: Professor Peisu Xia

B.E., Computer Science Sep '91 – Jul '95
Xidian University, Xi'an, China

EMPLOYMENT

Professor Aug '13 – present
Department of Computer Science
Wayne State University

Program Director Aug '13 – Aug '15
CISE/CNS/CSR
National Science Foundation

Associate Professor Aug '08 – Aug '13
Department of Computer Science
Wayne State University

Assistant Professor Aug '02 – Aug '08
Department of Computer Science
Wayne State University

Associate Research Scientist in Computer Science Apr '00 – Aug '02
Courant Institute of Mathematical Sciences
New York University

ACADEMIC HONORS AND AWARDS

- Most Downloaded Paper Award (IEEE Computer), 2018
- Best Paper Award of IEEE eHealth Technical Committee 2017
- Academic Advisory Board of IEEE Computer Society 2017
- Associate Editor-In-Chief of IEEE Internet Computing 2017
- ACM Distinguished Scientist 2016
- Appointed as the Inaugural Editor-In-Chief of **Smart Health Journal** 2016
- College of Engineering Faculty Research Excellence Award 2016
- **IEEE Fellow (Computer Society)** 2016
- IEEE HealthCom Best Student Paper Award 2015
- Wayne State University Charles H. Gershenson Distinguished Faculty Fellow 2015
- Best Paper Nominee of 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing (Ubi-Comp), September 2014
- Spotlight paper of IEEE Transactions on Parallel and Distributed Systems, April 2013
- Best Paper Award of IEEE International Symposium on Workload Characterization 2012
- Best Paper Award of National Annual Conference on High Performance Computing 2012
- Chair of the IEEE Computer Society Technical Committee on the Internet (2012 -)
- College of Liberal Arts and Sciences Teaching Award 2011
- Wayne State University Career Development Chair Award 2009
- **NSF CAREER Award** 2007
- College of Liberal Arts and Sciences Teaching Award 2007
- Marquis Who's Who of Emerging Leaders 2006
- Wayne State University Faculty Research Award, 2005
- Best Paper Award in IEEE 19th International Parallel and Distributed Processing Symposium, April 2005
- Best Paper Award in 4th International Conference on Web Engineering, July 2004
- Wayne State University Faculty Research Award, 2004
- **100 National Outstanding Dissertations of China**, 2002
- President Outstanding Honor of Chinese Academy of Sciences, 2000
- Microsoft Research Fellowship, 1999

GRANTS AND CONTRACTS

External Grants and Contracts

Total: \$8.3M

1. Michigan Health Endowment Fund, Real Time Nursing Home Quality Control, MHEF R-1712-142406, \$79,846, 5/1/18-4/30/19, Co-PI. (PI Allen Goodman).
2. Facebook Research Award, \$50k, 2018. (PI)

3. Microsoft Azure Research Award, \$10K, 2/1/18-1/31/19, MPI (with Yongli Zhang).
4. NSF, S&AS:INT: Autonomous Battery Operating System (ABOS): An Adaptive & Comprehensive Approach to Efficient, Safe, & Secure Battery System Management, \$1.25M, 9/1/17-8/31/21, Co-PI (PI: Nathan Fisher).
5. NSF, OpenEdge: Toward Open and Transparent Edge Computing and Its Application in Public Safety, \$50K, 9/1/17-8/31/18. PI.
6. Michigan Health Endowment Fund, Real Time Nursing Home Quality Control, MHEF R-1608-140360, \$97,534, 5/1/17-4/30/18, Co-PI. (PI Allen Goodman).
7. NSF, CNS workshop on Grand Challenges on Computing at the Edge, 8/1/16-7/31/18, \$100,000. (Sole PI)
8. NSF, CCF Medium:Collaborative Research: Wizard: Exploiting Disk Performance Signatures for Cost-Effective Management of Large-Scale Storage Systems, 6/1/16-5/31/19, total budget \$700,000. (Sole PI)
9. NSF, EAGER: Fine-Grained Software Power Prediction and Its Application on Power Management of Heterogeneous Multicore Systems, 2/1/16-1/31/18, \$299,928. (Sole PI)
10. Intel, Internet of Things Innovators Lab, October 2015, \$30,000 + Equipment. (Sole PI)
11. Great Lakes Protection Fund (GLPF), Real-Time Energy Impact Monitors for Residential, Industrial and Policy Use, 7/1/13-6/30/15, \$557,000. (Co-PI, PI: Carol Miller).
12. Gates Foundation (Grand Challenge Exploration Program), Mobile Immunization Tracking and Management System, 11/1/12-4/30/14, \$100K (Direct Cost). (Co-PI, PI: Paul Kilgore)
13. NSF II-NEW: A Research and Education Infrastructure for Power- and Thermal-Aware Computing , \$386,396, 6/1/12-5/31/15. (PI, Co-PI: Nathan Fisher)
14. VA: iOS application for Veteran Health Goal Tracking Patient Centered Care, 10/1/11-8/31/12, \$200,000 (Co-PI, PI: Kai Yang)
15. Department of Homeland Security, "First Responder Resiliency-Identification and Application of Malleable Factors," (Co-PI, PI: Bengt Arnetz), October 2010 - September 2012. \$437,560. (stopped because of federal cut)
16. Air Force SBIR, "Building a Trust-aware Dynamic Routing Solution for Wireless Sensor Networks," (PI, lead organization: Intelligent Automation Inc.), December 2009 - December 2011, \$750,000 (Wayne State University, \$150,000).
17. Swedish Council for Working Life and Social Research, "Real-time Psychosocial Assessment and Cardiovascular Reactions: Application of an Interactive Wireless Data Collection System," (Co-PI, PI: Bengt Arnetz), June 2009 - June 2012, 2,100,000 SEK (Wayne State University, 324,000 SEK).
18. NSF, "NOSS: Consistency Model Driven Deceptive Data Detection and Filtering in Wireless Sensor Networks," (Sole PI), August 2007 - May 2011. \$200,002.
19. NSF, "CAREER: Mechanisms for Resource Sharing in Collaborative High-End Computing Platforms," (PI), April 2007 - April 2012. \$465,770 + \$121,002 (university match).
20. Chrysler/Bright Star Engineering, "Mobile Sensor Networks for Automotive Diagnostics," (Sole PI), July 2008 - July 2010, \$41,000.
21. AtomyNet, "Performance Evaluation of Symmetric and Asymmetric Encryption Algorithms and Exploiting New Potential Applications in Embedded Systems," (Sole PI), October 2005 - September 2006. \$58,548
22. Michigan Life Sciences Corridor, "Integration of Bioengineering and Biocomputing to Advance Michigan Computer-Assisted Surgery" August 2003 - July 2007. (PI- Vipin Chaudhary and 7 other Co-PIs, 10% + one 12 month GRA). \$3,377,560.

Internal Grants

1. Wayne State University, Data Science Initiative, 11/1/16-10/31/19, \$500K.
2. Wayne State University Technology Development Incubator, "MyPalm Vein 2.0 System," January 2016 - January 2018, \$25,000. (with Paul Kilgore).
3. Wayne State University: "StressBar: A System for Stress Information Collection and Personalized Recommendation," August 2012-August 2013, one 12-month GRA.
4. Wayne State University: "REP: Innovative Data Management for Massive Genomics Data Sets," \$99,957, 07/01/11-12/31/12. (PI, Co-PIs: Douglas Ruden and five others)
5. Wayne State University: OVPR support for Wireless Health Initiative, \$10,000, 11/01/11-10/31/12. (PI)
6. Wayne State University, "Cross-disciplinary GRA Assistantship in Computer Science and Bioinformatics for Next Generation Genome Analyses," August 2010 - August 2011, one 12-month GRA.
7. Wayne State University, "CodeGreen: An Energy-aware Operating System for Green Computing," \$19,500, May 2009-May 2010.
8. Wayne State University, "In-Situ Psychosocial Stress Information Collection Using Body Area Wireless Sensor Networks," (Co-PIs: Bengt Arnetz, Mark Lumley), August 2007 - August 2008. \$33,187.
9. Wayne State University, "Innovative Measurement of Motion and Falling Detection of Aging Citizens Using Wireless Sensor Networks," (Co-PIs: Peter Litcherberg, Thomas Jankowski), August 2006 - August 2007. \$33,187.
10. Wayne State University, "Spirit: System Support for Applying Wireless Sensor Networks in Geo-Environmental Monitoring Applications," (PI), May 2005 - April 2006. \$9,982.
11. Wayne State University, "A Highly Accurate Landmark Free Topology Mapping Algorithm for Wireless Sensor Networks in Environmental Engineering Applications," (Co-PI: Carol Miller), August 2004 - August 2005. \$66,374.
12. Wayne State University, "Scalable Delivery and Nomadic Access of Dynamic Web Content,"(PI), May 2004 - April 2005. \$6,952.

PATENTS

1. US Provisional Patent App No. 62/241,500 for: MYPALM VEIN: A PALM VEIN-BASED LOW-COST MOBILE IDENTIFICATION SYSTEM FOR WIDE AGE RANGE, Nov. 2015.
2. US Provisional Patent App No. 62/237,191 for: FINE-GRAINED DISK FAILURE PREDICTION IN DATA CENTERS, Oct 2015.

OPEN SOURCE SOFTWARE

1. HERO: An Mobile App for Home Emission Read-Out
2. pTop: A process-level power profiling tool
3. Bugu: An application-level power profiler and analyzer for mobile devices
4. CloudAligner: A cloud-based sequence analysis tool
5. SPAN: A software power analyzer
6. RatSim: A Simulator of Rating Algorithms for Reputation Systems
7. SCore: A Cross-layer Sensor Core Library (for TinyOS)

PUBLICATIONS

Books and Reports (5)

1. Weisong Shi, Fang Liu, Hui Sun, and Qingqi Pei, *Edge Computing*, Science Press, January 2018.
2. Mung Chiang and Weisong Shi (Editors) *NSF Workshop Report on Grand Challenges in Edge Computing*, October 26, 2016. Washington DC.
3. Weisong Shi, *Performance Optimization of Software Distributed Shared Memory Systems*, Higher Education Press, 251 pages, July 2004.
4. Weisong Shi, *Foundations of Computer Systems Research*, Higher Education Press, 286 pages, October 2010. (Edited)
5. Erik Altman and Weisong Shi, *Network and Parallel Computing*, Springer LNCS 6985, October 2011. (Edited)

Journal Papers and Magazine Articles (72)

1. Quan Zhang, Qingyang Zhang, Weisong Shi and Hong Zhong, "Firework: Data Processing and Sharing for Hybrid Cloud-Edge Analytics," *IEEE Transactions on Parallel and Distributed Systems*, (accepted), February 2018.
2. Qingyang Zhang, Quan Zhang, Weisong Shi and Hong Zhong, "Distributed Collaborative Execution on the Edges and Its Application on AMBER Alert," *IEEE Internet of Things Journal* (accepted), February 2018.
3. Kewei Sha, Wei Wei, Andrew T. Yang, Zhiwei Wang and Weisong Shi, "On Security Challenges and Open Issue in Internet of Things," accepted by *Future Generation Computer Systems*, January 2018.
4. Youhuizi Li, Mohit Kumar and Weisong Shi, "Falcon: An Ambient Temperature Aware Thermal Control Policy for IoT Gateways," *Sustainable Computing: Informatics and Systems*, Vol. 16, December 2017, pp. 48-55.
5. Zujie Ren, Weisong Shi, Jian Wan, Feng Cao and Jiangbin Lin, "Realistic and Scalable Benchmarking Cloud File Systems: Practices and Lessons from AliCloud," *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Vol. 28, No. 11, November 2017, pp.3272-3285.
6. Congfeng Jiang, Dongyang Ou, Yumei Wang, Xindong You, Jilin Zhang, Jian Wan, Bing Luo and Weisong Shi, "Energy Efficiency Comparison of Hypervisors," accepted by *Sustainable Computing: Informatics and Systems*, October 2017.
7. Yan Hu, Weisong Shi and Xiaohui Hu, "Mitigating Data Sparsity Using Similarity Reinforcement Enhanced Collaborating Filtering," *ACM Transactions on Internet Technology (TOIT)*, Vol. 17, No. 3, July 2017.
8. Weisong Shi, Hui Sun, Jie Cao, Quan Zhang and Wei Liu, "Edge Computing — An Emerging Computing Model for the Internet of Everything Era," *Journal of Computer Research and Development*, Vol. 54, No. 5, pp. 907-924, May 2017. (in Chinese)
9. Weisong Shi, Jie Cao, Quan Zhang, Youhuizi Li and Lanyu Xu, "Edge Computing: Vision and Challenges," *IEEE Internet of Things Journal*, Vol. 3, No. 5, October 2016, pp. 637-646.
10. Weisong Shi and Schahram Dustdar, "The Promise of Edge Computing," *IEEE Computer Magazine*, Vol. 29, No. 5, pp. 78-81. May 2016.
11. Bing Luo, Shinan Wang, Weisong Shi and Yanfei He, "eCope: Workload-aware Elastic Customization for Power Efficiency of High-End Servers," *IEEE Transactions on Cloud Computing*, Vol. 4, No. 2, April-June 2016.
12. Quan Zhang and Weisong Shi, "Energy-Efficient Workload Placement in Enterprise Datacenters," *IEEE Computer*, Vol. 29, No. 2, pp. 46-52, 2016.
13. Shinan Wang, Bing Luo, Weisong Shi and Devesh Tiwari, "Application Configuration Selection for Energy-Efficient Execution on Multicore Systems," *Journal of Parallel and Distributed Computing*, Vol. 87, January 2016, pp. 43-54.
14. Lena Mashayekhy, Mahyar Movahed Nejad, Daniel Grosu, Quan Zhang and Weisong Shi, "Energy-aware Scheduling of MapReduce Jobs for Big Data Applications," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 26, No. 10, October 2015.
15. Lingmei Ren and Weisong Shi, "Chameleon: Personalized and Adaptive Fall Detection of Elderly People in Home-based Environments," accepted by *International Journal of Sensor Networks (IISNet)*, January 2015.
16. Quan Zhang, Grace Metri, Sudharsan Raghavan and Weisong Shi, "RESCUE: An Energy-Aware Scheduler for Cloud Environments," *Sustainable Computing: Informatics and Systems special issue on Energy-Aware Resource Management and Scheduling (EARMS)*, Volume 4, Issue 4, December 2014, Pages 215 - 224.
17. Michelle Rogers, Guoyao Xu, Shawn McElmurry, Weisong Shi, Caisheng Wang, Stephen Miller, Yang Wang and Cheng-Zhong Xu, "HERO: A Smart-Phone Application for Location Based Emissions Estimates," accepted by *Sustainable Computing: Informatics and Systems*, November 2014.
18. Pradeep M. Hettiarachchi, Nathan Fisher, Masud Ahmed, Le Yi Wang, Shinan Wang and Weisong Shi, "The Design and Analysis of Thermal-Resilient Hard-Real-Time Systems," *ACM Transactions on Embedded Computing Systems*, Volume 13, Issue 5s, November 2014 Article No. 146.
19. Yong Xi, Loren Schwiebert and Weisong Shi, "Privacy Preserving Shortest Path Routing with an Application to Navigation," *Pervasive and Mobile Computing*, Vol. 13, August 2014. pp. 142-149.

20. Youhuizi Li, Hui Chen and Weisong Shi, "Power Behavior Analysis of Mobile Applications using Bugu," *Sustainable Computing: Informatics and Systems*, Volume 4, Issue 3, September 2014, Pages 183-195.
21. Mark A. Lumley, Weisong Shi, Clairiy Wiholm, Richard B. Slatcler, Helene Sandmark, Shinan Wang, Anders Hytter and Bengt B. Arnetz "The Relationship of Chronic and Momentary Work Stress to Cardiac Reactivity in Women Managers: Feasibility of a Smart Phone-Assisted Assessment System," *Psychosomatic Medicine: Journal of Biobehavioral Medicine*, 76:512-518, 2014.
22. Zujie Ren, Jian Wan, Weisong Shi, Xianghua Xu and Min Zhou, "Workload Analysis, Implications and Optimization on a Production Hadoop Cluster: A Case Study on Taobao," *IEEE Transactions on Services Computing*, Vol. 7, No. 2, April-June 2014. pp.307-321.
23. Tung Nguyen and Weisong Shi, "MapReduce in the Cloud: Data Location-Aware Virtual Machine Scheduling," *ZTE Communications*, Vol. 5, No. 4, December 2013.
24. Jianfeng Zhan, Lei Wang, Xiaona Li, Weisong Shi, Chuliang Weng and Wenyao Zhang, Cost-aware Cooperative Resource Provisioning for Heterogeneous Workloads in Data Centers, *IEEE Transactions on Computers*, Vol. 62, No. 11, November 2013. pp. 2155-2168.
25. Tung Nguyen, Jingwen Zhang and Weisong Shi, SPBD: Streamlining Big Data Processing in Cloud Environments, *ZTE Communications*, Vol. 5, No. 2 June 2013.
26. Sheng Gao, Jianfeng Mao, Weisong Shi, Guoxing Zhan and Cong Sun, "TrPF:A Trajectory Privacy-Preserving Framework for Participatory Sensing," *IEEE Transactions on Information Forensics and Security*, Vol. 8, No. 6, June 2013. pp.874-887.
27. Lingjun Fan, Yuanchao Xu, Weisong Shi, Dongrui Fan and Jie Lou, "Hybrid Approach of Filtering Unnecessary Way Accesses for Set-Associate Caches," *Chinese Journal of Computers*, Vol. 36, No. 4, April 2013.
28. Sheng Gao, Jianfeng Ma, Weisong Shi and Guoxing Zhan, "LTPPM: Location and Trajectory Privacy Protection Mechanism in Participatory Sensing," accepted by *Wireless Communication and Mobile Computing*. Oct 2012.
29. Quan Zhang, Lingmei Ren and Weisong Shi, "HONEY: A Multimodality Fall Detection and Telecare System," *Telemedicine and e-Health*, Vol. 19, No. 5, May 2013, pp. 415-29.
30. Guoxing Zhan and Weisong Shi, "LOBOT: Low-Cost, Self-Contained Localization of Small-Sized Ground Robotic Vehicles," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 24, No. 4, April 2013. (**Spotlight paper of April 2013**).
31. Ying Song, Yuzhong Song and Weisong Shi, "A Two-Tiered On-Demand Resource Allocation Mechanism for VM-Based Data Centers," *IEEE Transactions on Services Computing*, Vol. 6, No. 1, January 2013, pp. 116-129.
32. Tung Nguyen and Weisong Shi, "Improving Resource Efficiency in Data Centers using Reputation-based Resource Selection," *Sustainable Computing: Informatics and Systems*, Vol. 2, No. 3, September 2012. pp. 138-150.
33. Hui Chen, Youhuizi Li and Weisong Shi, "Fine-Grained Power Management Using Process-level Profiling," *Sustainable Computing: Informatics and Systems*, Vol. 2, No.1, March 2012. pp.33-42.
34. Huajian Mao, Nong Xiao, Weisong Shi and Yutong Lu, "Wukong: A Cloud-Oriented File Service for Mobile Internet Devices," *Journal of Parallel and Distributed Computing*, Vol. 72, No. 2, February 2012. pp. 171-184.
35. Tiejing Zhang, Xueqi Cheng, Jianming Lv, Zhenghua Li and Weisong Shi, "Providing Hierarchical Lookup Service for P2P-VoD Systems," *ACM Transactions on Multimedia Computing, Communications and Applications*, Vol. 8, No.1, February 2012.
36. Guoxing Zhan, Weisong Shi and Julia Deng, "Design, Implementation and Evaluation of TARF: A Trust-Aware Routing Framework for Dynamic WSNs," *IEEE Transactions on Dependable and Secure Computing*, Vol. 9, No.2, March/April 2012. Pp. 184-197.
37. Lei Wang, Jianfeng Zhan, Weisong Shi and Yi Liang, "In Cloud, Can Scientific Communities Benefit from the Economies of Scale?" *IEEE Transactions on Parallel and Distributed Systems*, Vol. 23, No. 2, Feb. 2012, pp. 296-303.
38. Guoxing Zhan, Weisong Shi and Julia Deng, SensorTrust: "A Resilient Trust Model for Wireless Sensing Systems," *Elsevier Pervasive and Mobile Computing*, Vol. 7, No. 4, August 2011, pp. 509-522.
39. Xu Liu, Jianfeng Zhan, Kunlin Zhan, Weisong Shi, Lin Yuan, Dan Meng and Lei Wang, "Automatic Performance Debugging of SPMD-style Parallel Programs," *Journal of Parallel and Distributed Computing*, Vol. 71, No. 7, July 2011.
40. Tung Nguyen, Weisong Shi and Douglas Ruden, "CloudAligner: A Fast and Full-Featured MapReduce based Tool for Sequence Mapping," *BMC Research Notes*, 4:171 June 2011.
41. Shinan Wang, Hui Chen and Weisong Shi, "SPAN: A Software Power Analyzer for Multicore Computer Systems," *Elsevier Sustainable Computing: Informatics and Systems*, Vol. 1, No.1, pp. 23-34, January 2011.
42. Zhifeng Yu, Chenjia Wang and Weisong Shi, "Failure-aware Workflow Scheduling in Cluster Environments," *Springer Cluster Computing Journal*, Volume 13, No. 4, 2010, pp. 421-434.
43. Zhifeng Yu and Weisong Shi, "Queue Waiting Time Aware Dynamic Workflow Scheduling in Multicenter Environments," *Journal of Computer Science and Technology*, Vol. 25, No. 4, July 2010, March 2010.

44. Kewei Sha, Shinan Wang and Weisong Shi, “ RD^4 : Role-Differentiated Cooperative Deceptive Data Detection and Filtering in VANETs,” *IEEE Transactions on Vehicular Technology*, Vol. 59, No. 3, pp. 1183-1190, March 2010.
45. Zhengqiang Liang and Weisong Shi, “A Reputation-driven Scheduler for Autonomic and Sustainable Resource Sharing in Grid Computing,” *Journal of Parallel and Distributed Computing*, Vol. 70, No. 2, pp. 111-125, February 2010.
46. Zhengqiang Liang and Weisong Shi, “TRECON: A Trust-based Economic Framework for Efficient Internet Routing,” *IEEE Transactions on Systems, Man and Cybernetics, part A*, Vol. 40, No. 1., pp. 52-67, January 2010.
47. Jayashree Ravi, Zhifeng Yu and Weisong Shi, “A Survey on Dynamic Web Content Generation and Delivery Techniques,” *Elsevier Journal of Network and Computer Applications*, Vol. 32, 2009, pp. 943-960.
48. Junzhao Du, Weisong Shi, and Kewei Sha, “Asymmetry-Aware Link Layer Services in Wireless Sensor Networks,” *Journal of Embedded Computing*, Vol. 3, No. 2, pp. 141-154, 2009.
49. Yong Xi, Kewei Sha, Weisong Shi, Loren Schwiebert and Tao Zhang, “Probabilistic Adaptive Anonymous Authentication in Vehicular Networks,” *Journal of Computer Science and Technology*, Vol. 23, No. 6, pp. 916-928, November 2008.
50. Junzhao Du and Weisong Shi, “App-MAC: An Application-Aware Event-Oriented MAC Protocol for Multimodality WSNs,” *IEEE Transactions on Vehicular Technology*, Vol. 57, No. 6, November 2008.
51. Kewei Sha and Weisong Shi, “Consistency-Driven Data Quality Management in Networked Sensor Systems,” *Journal of Parallel and Distributed Computing*, Vol. 68, No. 9, pp. 1207-1221, September 2008.
52. Yong Xi, Weisong Shi, and Loren Schwiebert, “Mobile Anonymity of Dynamic Groups in Vehicular Networks,” *Security and Communication Networks*, Vol. 1, No. 3, May 2008. pp. 219-231.
53. Hanping Lufei, Weisong Shi and Vipin Chaudhary “Adaptive Secure Access to Remote Services in Mobile Environments,” *IEEE Transactions on Services computing*, Vol. 1, No. 1, January-March 2008, pp. 49-61.
54. Zhengqiang Liang and Weisong Shi, “Analysis of Recommendations on Trust Inference in Open Environments,” *Performance Evaluation Journal*, Vol. 65, No. 2, pp. 99-128, February 2008.
55. Hanping Lufei and Weisong Shi, “Energy-aware QoS for Application Sessions Across Multiple Protocol Domains in Mobile Computing,” *Elsevier Computer Networks*, Vol. 51, No. 11, 3125-3141, August 2007.
56. Kewei Sha, Junzhao Du, and Weisong Shi, “WEAR: A Balanced, Fault-Tolerant, Energy-Efficient Routing Protocol for Wireless Sensor Networks,” *International Journal of Sensor Networks (IJSNet)*, Vol. 1, No. 2, 2006.
57. Hanping Lufei and Weisong Shi, “Fractal: A Mobile Code Based Framework for Dynamic Application Protocol Adaptation in Pervasive Computing,” *Journal of Parallel and Distributed Computing*, Vol. 66, No. 7, pp. 887-906, July 2006.
58. Gulshreen Kaur, JunTan, Mohammed Alam, Vipin Chaudhary, Dingguo Chen, Ming Dong, Hazem Eltahawy, Farshad Fotouhi, Christopher Gammage, Jason Gong, William Grosky, Murali Guthikonda, Jingwen Hu, DevkanakJeyaraj, Xin Jin, Albert King, Joseph Landman, Jong Lee, Qing Huang Li, Hanping Lufei, Michael Morse, Jignesh patel, Ishwar Sethi, Weisong Shi, King Yang, Zhimin Zhang, “CASMIL: A Comprehensive Software/Toolkit for Image-Guided Neurosurgeries,” *International Journal of Medical Robotics and Computer Assisted Surgery*, Vol. 2, Issue 2, Pages 123-138, June 2006.
59. Weisong Shi and Yonggen Mao, “Performance Evaluation of Peer-to-Peer Web Caching Technologies,” *Journal of Systems and Software*, Vol. 79, No. 5, pp. 714-726, May 2006.
60. Zhengqiang Liang and Weisong Shi, “Enforcing Cooperative Resource Sharing in Untrusted Peer-to-Peer Environment,” accepted by *ACM Journal of Mobile Network and Applications (MONET)* with special issue on Non-Cooperative Wireless Networking and Computing, Vol. 10, No. 6, pp. 771-783, December 2005.
61. Weisong Shi, Sharun Santhosh, and Hanping Lufei, “Secure Application-Aware Service Differentiation in Public Area Wireless Networks,” *Journal of Computer Science and Technology*, Vol. 20, No. 5, pp. 676-688, Sept. 2005.
62. Kewei Sha and Weisong Shi, “Modeling the Lifetime of Wireless Sensor Networks,” *Journal of Sensor Letters*, Vol. 3, pp. 126-135, 2005.
63. Daniel Brodie, Amrishi Gupta, and Weisong Shi, “Accelerating Dynamic Web Content Delivery using Keyword-based Fragment Detection,” Vol. 4, No. 1, pp. 079-099, 2005, *Journal of Web Engineering*.
64. Jayashree Ravi, Weisong Shi, and Cheng-Zhong Xu, “Personalized Email Management at Network Edges,” *IEEE Internet Computing*, Vol. 9, No. 2, March/April, 2005.
65. Weisong Shi, Eli Collins, and Vijay Karamcheti, “Modeling Object Characteristics of Dynamic Web Content”, *Journal of Parallel and Distributed Computing (JPDC)*, Vol. 63, No. 10, pages 963-980, October, 2003.
66. Weiwu Hu, Weisong Shi, and Zhimin Tang, “Optimizing the Home-based Software DSM Protocol,” *Cluster Computing: The Journal of Networks, Software and Applications*, Baltzer Science Publishers, 2001.
67. Weisong Shi and Zhimin Tang, “ Load Balancing in Home-based Software DSMs,” *Special Issue of International Journal of Foundations of Computer Science*, World Scientific Publishing Co. Inc., Vol. 12, No. 3, pp. 307-324, USA, June, 2001.

68. Weisong Shi and Zhimin Tang, "Using Confidence Interval to Summarize the Evaluating Results of DSM Systems," *Journal of Computer Science and Technology*, Vol 15, No. 1, 2000, Science Press of China and Allerton Press, Inc, New York, USA.
69. Weisong Shi, Weiwu Hu, and Zhimin Tang, "Where Does the Time Go in Software DSM System: Experiences with JIAJIA?" *Journal of Computer Science and Technology*, Vol. 14, No. 3, pp. 193-205, May, 1999, Science Press of China and Allerton Press, Inc, New York, USA.
70. Weiwu Hu, Weisong Shi, Zhimin Tang and Ming Li, "A Lock-based Cache Coherence for Scope Consistency," *Journal of Computer Science and Technology*, Vol. 13, No. 2, pp. 97-110, March, 1998, Science Press of China and Allerton Press, Inc, New York, USA.
71. Weiwu Hu, Weisong Shi, and Zhimin Tang, "A Framework for Memory Consistency Models," *Journal of Computer Science and Technology*, Vol. 13, No.2, pp.110-124, March, 1998, Science Press of China and Allerton Press, Inc, New York, USA.
72. Weisong Shi and Weiwu Hu, "An Innovative Cache Coherence Scheme for Directory-based Shared Memory Multiprocessors," *ACM Computer Architecture News*, Vol. 25, No. 5, pp. 2-9, December, 1997.

Referred Conference and Workshop Publications (110)

1. Mohit Kumar, Devesh Tiwari, Saurabh Gupta, Tirthak Patel, Weisong Shi, Song Fu, Christian Engelmann, "Understanding and Analyzing Interconnect Errors and Network Congestion on a Large Scale HPC System," in Proceedings of the 48th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2018), Luxembourg, June 25-28, 2018.
2. Mohit Kumar, Youhuizi Li and Weisong Shi, "Energy Consumption in Java: An Early Experience," in Proceedings of the 8th International Green and Sustainable Computing Conference (IGSC), Orlando, FL, Oct 23-25, 2017.
3. Shanhe Yi, Zijiang Hao, Qingyang Zhang, Quan Zhang, Weisong Shi and Qun Li, "LAVEA: Latency-aware Video Analytics on Edge Computing Platform," in Proceedings of ACM/IEEE Symposium on Edge Computing (SEC), San Jose, Oct 12-14, 2017.
4. Xiaopei Wu, Robert Dunne, Qingyang Zhang and Weisong Shi, "Edge Computing Enabled Smart Firefighting: Opportunities and Challenges," in Proceedings of 4th HotWeb, in conjunction with SEC 2017, San Jose, Oct 14, 2017.
5. Raef Abdallah, Lanyu Xu and Weisong Shi, "Lessons and Experiences of a DIY Smart Home," in Proceedings of 1st SmartIoT Workshop, in conjunction with SEC 2017, San Jose, Oct 14, 2017.
6. Hui Sun, Xu Liang and Weisong Shi, "Video Usefulness and Its Application in Large-Scale Video Surveillance Systems: An Early Experience," in Proceedings of 1st SmartIoT Workshop, in conjunction with SEC 2017, San Jose, Oct 14, 2017.
7. Xiaopei Wu, Robert Dunne, Zhifeng Yu and Weisong Shi, "STREMS: A Smart Real-time Solution Toward Enhancing EMS Prehospital Quality," in Proceedings of 2nd IEEE/ACM International Conference on Connected Health (CHASE), Philadelphia, July 17-19, 2017.
8. Zhenyu Ning, Fengwei Zhang, Weisong Shi and Larry Shi, "Position Paper: Challenges Toward Securing Hardware-assisted Execution Environments," in Proceedings of Hardware and Architectural Support for Security and Privacy (HASP), in conjunction with ISCA, Toronto, Canada, June 25, 2017.
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Chapters (7)

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UNIVERSITY SERVICES (last five years)

- 2015-2017 Co-Chair Cross-Boarder Health Initiative
- 2015-2016 Chair of Department Faculty Search Committee
- 2015-2016 College Review Committee
- 2015-2016 University Patent Advisory Committee
- 2015-2016 College Steering Committee
- 2012-2013 Department Graduate Committee Chair
- 2012-2013 University International Sources for Research Collaboration Committee
- 2011-2013 College of Engineering Steering Committee member
- 2011-2012 University Research Grant Committee
- 2011-2012 Chair of Department Faculty Search Committee
- 2011-2013 College of Engineering Research Advisory Committee
- 2011-2012 Department Graduate Committee member
- 2011-2012 Department Budget Advisory Committee
- 2011-2012 helping developing "3+2" program with China Universities
- 2011 Provost's Task Force for Streamlining Processes
- 2011 University Postdoctoral Advisory Council
- 2010-2011 Department Graduate Committee
- 2010-2011 Department Budget Advisory Committee
- 2010-2011 Department Personal and Salary Committee
- 2010 University Career Development Chair Award Committee

STUDENT ADVISING

Current Students

- PH.D. Students (10): Jie Cao, Bing Luo, Mohit Kumar, Lanyu Xu, Daniel Ouellette, Sidi Lu, Liangkai Liu, Xingzhou Zhang, Yifan Wang, Qingyang Zhang (Visiting Student)
- Postdoctor (1): Xiaopei Wu
- MS students (3): Javad Roostaei, Sheng Tan, Faezeh Vaseghiamiri
- Undergraduate Students (2): Michael Moore (REU), Charles Guye (MI-LSAMP)

Past Ph.D. Students (15)

- Quan Zhang (Ph.D., January 2018, Salesforce.com)
- Lingmei Ren (Ph.D., May 2016, Shandong University of Science and Technology)
- Youhuizi Li (Ph.D., January 2016, Hangzhou Dianzi University)
- Hui Chen (Ph.D., November 2015, Amazon)
- Lingjun Fan (Ph.D., May 2014, Chinese Academy of Sciences, Co-advised with Guojie Li)

- Grace Metri (Ph.D., April 2014, Intel, Co-advised with Monica Brockmeyer)
- Shinan Wang (Ph.D., February 2014, Magna Electronics)
- Yong Xi (Ph.D., November 2012, Amazon, Co-advised with Loren Schwiebert)
- Tung Nguyen (Ph.D., August 2012, Intelligent Automation Inc.)
- Guoxing Zhan (Ph.D., April 2012, Cisco)
- Zhengqiang Liang (Ph.D., January 2010, Bloomberg L.P.)
- Safwan Al-Omari (Ph.D., December 2008, Lewis University)
- Zhifeng Yu (Ph.D., December 2008, T-Systems)
- Kewei Sha (Ph.D., November 2008, Oklahoma City University)
- Hanping Lufei (Ph.D., July 2007, eBay)

Past Masters Students (12)

- Jingwen Zhang (M.S., March 2014, EMC)
- Guisi Ni (M.S., August 2014, Google)
- Mingyang Xu (M.S., July 2014, NCSU Ph.D. program)
- Ruining Sun (M.S., May 2014, AT&T)
- Harish Balasubrananian (M.S., February 2014, ELEKTROBIT Automotive)
- Dajun Lu, (M.S., January 2014, Amazon)
- Soumyasudharsan Srinivasaraghavan (M.S., February 2012, Valeo Inc.)
- Chenjia Wang (M.S., July 2009, Revstone Industry)
- Brandon Szeliga, (M.S., July 2007, Lockheed Martin)
- Jayashree Ravi (M.S., December 2005, Chrysler)
- Sharun Santhosh (M.S., August 2004, Intel)
- Yonggen Mao (M.S., August 2004, EDS)

Past Undergraduate Students (8)

- Chad Fisher (WSU Computer Science)
- Mary Hooker
- Yuk Cheung
- Raymond Lemon (WSU Computer Science)
- Delyan Raychev (Facebook)
- Jacqueline Brown (IBM)
- Tony Cutway (Sylvania Schools)
- Daniel Brodie

PROFESSIONAL PARTICIPATION

Professional Organization

- Institute of Electrical and Electronics Engineers (IEEE), Fellow
Chair of IEEE Computer Society Technical Committee of the Internet (TCI) (2012 - 2016)
- Association for Computing Machinery (ACM), Distinguished Member
- The Advanced Computing Systems Association (USENIX)

Grant Review Panels

- National Science Foundation, 2009-2012, 2015, 2016, 2017
- National Natural Science Foundation of China
- Hong Kong Research Council
- Qatar National Research Fund

Editorships

1. Editor-In-Chief, Elsevier Smart Health, 2016-2019
2. Associate Editor-In-Chief, IEEE Internet Computing, 2017-
3. Associate Editor of IEEE Transactions on Services Computing, 2016-
4. Associate Editor of ACM Transactions on Internet of Things, 2018-
5. Associate Editor of IEEE Transactions on Computers, 2015-2016
6. Editor of IEEE Internet Computing, 2014 -
7. Associate editor of Springer Computing Journal, 2012-
8. Editor of Elsevier Sustainable Computing: Informatics and Systems (SUSCOM), 2011-
9. Editor of Journal of Computer Science and Technology (JCST), 2010-
10. Editor of International Journal of Sensor Networks (IJSNet), 2009-
11. Guest Editor of IEEE Internet Computing Magazine, Special Issue on Live Video Analytics, July/August 2019.
12. Guest Editor of IEEE Transactions on Sustainable Computing, Special Issue on Energy Efficiency for Novel Architectures and Systems (2018)
13. Guest Editor of IEEE Transactions on Services Computing, Special Issue on Edge/Fog Computing and Services, 2019.
14. Guest Editor of IEEE Internet Computing Magazine, Special Issue on Energy-Efficient Data Centers, July/August 2017.
15. Guest Editor of IEEE Internet Computing Magazine, Special Issue on Fog Computing, March/April 2017.
16. Guest Editor of IEEE Internet Computing Magazine, Special Issue on Trust and Reputation Management, Sep/Oct 2010.
17. Guest Editor of International Journal of Sensor Networks, Special Issue on Data Quality Management in Wireless Sensor Networks, 2009.

18. Guest Editor of Journal of Computer Science and Technology, Special Issue on Trust and Reputation Management in Future Computing Systems and Applications, April 2009.
19. Guest Editor of Journal of Parallel and Distributed Computing Special Issue on Security in Grid and Distributed Systems, 2006.

Steering/Advisory Committees

1. Steering Committee Chair of IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE), 2016 -
2. Steering Committee Chair of ACM/IEEE Symposium on Edge Computing (SEC), 2016 -
3. Advisory Board of IEEE Internet of Things Journal, 2015 -
4. Steering Committee Member of HotWeb 2015 -
5. Steering Committee Member of International Green Computing Conference (IGCC) 2013 -
6. Advisory Board of “Next Generation Content Delivery Infrastructures: Emerging Paradigms and Technologies,” 2012
7. Steering Committee Member of International Conference on Network and Parallel Computing (NPC) 2011 -

Organization Committees

1. 2018 General Co-Chair of SEC
2. 2018 General Co-Chair of CHASE
3. 2017 General Co-Chair of NPC
4. 2017 General Chair of IGSC
5. 2017 Track Co-Chair of ICDCS on “Edge and Fog Computing”
6. 2016 Program Co-Chair of IGSC
7. 2016 General Co-Chair of CHASE
8. 2016 Program Co-Chair of USENIX CoolDC
9. 2016 Track Co-Chair of ICPP on “Datacenters and Cloud Computing”
10. 2015 General Co-Chair of HotWeb
11. 2014 Workshop Chair of IGCC
12. 2013 Workshop Chair of IGCC
13. 2013 Steering Chair of PMP 2013
14. 2012 Program Co-Chair of PMP 2012
15. 2012 Vice Track Chair of IEEE AINA Distributed and Parallel Systems
16. 2012 Workshop Co-Chair of IFIP NPC
17. 2011 Program Co-Chair of PMP 2011
18. 2011 Program Co-Chair of IEEE CSE
19. 2011 Program Co-Chair of IFIP NPC
20. 2011 Program Co-Chair of UPGRADE-CN

21. 2010 Workshop Co-Chair of IEEE APSCC 2010
22. 2009 CollaborateCom Program Co-Chair
23. 2009 WWW Tutorials Deputy Chair
24. 2008 General Co-Chair of AHPCN
25. 2008 Workshop on Trust and Reputation Management in Massively Distributed Computing Systems (TRAM 2008) (Program Co-Chair)
26. 2008 WWW Tutorials Deputy Chair
27. 2008 HPCC Workshop Co-Chairs
28. 2007 Workshop on Trust and Reputation Management in Massively Distributed Computing Systems (TRAM 2007). (**Funding Co-Chair**).
29. 2007 IEEE UbiSafe (Publicity Chair).
30. 2006 WWW 2006 (Poster Track Deputy Chair).
31. 2006 2nd International Workshop on Security in Systems and Networks (Program Chair).
32. 2005 WWW (Poster Track Chair)
33. 2004 WWW (Poster Track Deputy Chair)

Program Committees

1. 2016 HotWeb
2. 2016 IC2E
3. 2015 IGSC
4. 2015 ICPP
5. 2015 CCGrid
6. 2014 IGCC
7. 2014 ICPP
8. 2013 BigData 2013
9. 2013 CCGrid
10. 2012 HotPower
11. 2012 ICDCS
12. 2012 WWW
13. 2012 ICWE
14. 2011 NAS
15. 2011 ICPP
16. 2011 ICDCS
17. 2011 ICWE
18. 2010 GreenCom

19. 2010 MSN
20. 2010 Pervasive Health
21. 2010 CDN
22. 2010 WWW
23. 2009 ICWE
24. 2008 EUC
25. 2008 IEEE ICPADS
26. 2008 IEEE CollaborateCom
27. 2008 ACM 2nd International Workshop on HealthNet
28. 2008 ICPP
29. 2008 IEEE MASS
30. 2008 Workshop on Wireless Ad Hoc and Sensor Networks (WWASN).
31. 2008 IEEE VTC/Spring
32. 2007 MSN
33. 2007 IEEE IRI.
34. 2007 IEEE UPGRADE-CN, in conjunction with HPDC '07.
35. 2007 IEEE ICPADS.
36. 2007 ICPP
37. 2007 Workshop on Wireless Ad Hoc and Sensor Networks (WWASN).
38. 2007 IFIP Embedded and Ubiquitous Computing (EUC).
39. 2007 IEEE AINA.
40. 2006 IEEE CollaborateCom.
41. 2006 IEEE EIT 2006.
42. 2005 IEEE HPCAsia.
43. 2005 IFIP Embedded and Ubiquitous Computing (EUC).
44. 2005 International Conference on Wireless Networks
45. 2005 International Workshop on Systems and Network Security
46. 2003 8th International Workshop on Web Caching and Content Distribution (WCW)

Journal Referring

1. IEEE Transactions on Services Computing
2. IEEE Transactions on Cloud Computing
3. IEEE Transactions of Computers
4. IEEE Transactions on Parallel and Distributed Systems

5. IEEE Transactions on Knowledge and Data Engineering
6. IEEE Transactions on Systems, Man, and Cybernetics
7. ACM Transactions on Internet Technology
8. ACM Wireless Networking
9. ACM Journal of Multimedia
10. ACM Journal of Mobile Network and Applications (MONET)
11. Journal of Parallel and Distributed Computing
12. Computer Networks
13. Future Generation Computer Systems
14. IEEE Internet Computing
15. Computer Communications
16. Journal of Systems and Software
17. IEEE Wireless Communication Magazine
18. IEEE Network Magazine
19. IEEE Distributed Systems Online
20. Internet Encyclopedia
21. Performance Evaluation Journal
22. International Journal of Security and Networks
23. International Journal of Sensor Networks
24. International Journal of Distributed Sensor Networks
25. IEICE Transactions on Information and Systems
26. Journal of Computer Science and Technology
27. Journal of Software (Chinese)
28. China Computer Journal (Chinese)

Invited Talks

1. Distinguished Speaker @ IBM Research Almaden, Edge Computing: A New Computing Model for IoE, September 21, 2017.
2. Beijing Normal University, Edge Computing: Vision and Challenges, July 14, 2017.
3. Keynote@ MobiMedia17, Edge Computing: Vision and Challenges, July 13, 2017.
4. Keynote@ China Edge Computing Symposium, Edge Computing: Vision and Challenges, July 10, 2017.
5. Xidian University, Edge Computing: Vision and Challenges, July 7, 2017.
6. Ocean University of China, Edge Computing: Vision and Challenges, July 3, 2017.
7. Shangdong University of Science and Technology, Edge Computing: Vision and Challenges, July 3, 2017.
8. Baidu Inc., Edge Computing: Vision and Challenges, May 24, 2017.

9. Sun Yat-Sen University, Edge Computing: Vision and Challenges, May 17, 2017.
10. Tongji University, Edge Computing: Vision and Challenges, May 12, 2017.
11. University of Buffalo, Edge Computing: Vision, Challenges and Beyond, Nov. 29, 2016.
12. Chinese Academy of Sciences, Edge Computing: Vision and Challenges, Oct 16, 2016.
13. Shandong University, Edge Computing: Vision and Challenges, Oct. 15, 2016.
14. Inspur Technologies, A Case for Edge Computing, Oct. 15, 2016.
15. University of Science and Technology of China, Energy-Efficient Computing: Vision and Challenges, May 2016.
16. Oakland University, Mobile Healthcare, April 2016.
17. University of Michigan Dearborn, Toward Energy-Efficient Computing, Jan 15, 2016.
18. Chinese Academy of Sciences, Institute of Computing Technology, Distinguished Seminar Talk, Toward Energy-Efficient Computing, Oct 30, 2015.
19. Keynote at IEEE HealthCom'15, Wireless Health: Opportunities, Challenges and Beyond, Oct 15, 2015
20. Michigan Technological University, Distinguished Seminar Talk, Toward Energy-Efficient Computing, Oct 8, 2015
21. Georgia State University, Toward Energy-Efficiency Computing, June 2, 2015.
22. VMWare, Porcupine: Porcupine: Towards Realistic Benchmarking for Cloud File Systems, Feb. 18, 2015.
23. Keynote at HPCChina 2012, Toward High Efficiency Computing in the Big Data Era, Oct 30, 2012. ZhangJiaJie, China.
24. Baidu Inc., Toward High Efficiency Computing, Oct 29, 2012. Beijing, China.
25. Keynote at HPDIC, a workshop in conjunction with IPDPS 2012, May 25, 2012, Shanghai, China.
26. Wayne State University President Inaugural Academic Symposium, Toward Trust and Sustainable Cloud Computing, April 15, 2011.
27. Tongji University (Shanghai Graduate Summer School), Reflections on Ph.D. Programs: China vs. USA, July 16, 2010.
28. Tsinghua University, The ROSE project - from green IT to green life, July 13, 2010.
29. Shanghai Jiaotong University, Toward Trust and Sustainable Cloud Computing, June 28, 2010.
30. Sun Yat-Sen University, Toward Trust and Sustainable Cloud Computing, June 24, 2010.
31. **Distinguished Lecture** at Beijing University of Technology, Toward Trust and Sustainable Cloud Computing, June 18, 2010.
32. Chinese Academy of Sciences, Institute of Microelectronics, The ROSE project - from green IT to green life, June 18, 2010.
33. Xian Jiaotong University, Toward Trust and Sustainable Cloud Computing, June 9, 2010.
34. Huawei Cooperation, Research Activities in the MIST group, June 4, 2010.
35. Huzhong University of Science and Technology, Toward High Efficient Computing, May 24, 2010.
36. IUPUI, Orchis: Consistency-driven Deceptive Data Detection and Filtering in Sensing Systems, Oct 23, 2009.
37. Tongji University, Adaptation in Dynamic Computing Systems: Two Perspectives, May 22, 2009.

38. Institute of Software, Chinese Academy of Sciences, Adaptation in Dynamic Computing Systems: Two Perspectives, March 30, 2009.
39. Wayne State University, Department of Electrical and Computer Engineering, Orchis: Consistency-Driven Energy-Efficient Data Quality Management in Sensing Systems, Oct 29, 2008.
40. Georgetown University, Data Quality Management in Sensing Systems, October 10, 2008.
41. University of British Columbia, Orchis: Consistency-Driven Energy-Efficient Data Quality Management in Sensing Systems, May 15, 2008.
42. Simon Fraser University, Orchis: Consistency-Driven Energy-Efficient Data Quality Management in Sensing Systems, May 5, 2008.
43. Peking University, Mechanisms for Resource Sharing in Non-Cooperative Environments, August 22, 2007.
44. Institute of Computing Technology, Chinese Academy of Sciences, Dynamic Protocol Adaptation in Heterogeneous Environments, August 21, 2007.
45. Institute of Software, Chinese Academy of Sciences, Fractal: An Application Level Protocol Adaptation Framework for Heterogeneous Environments, August 14, 2007.
46. Institute of Computing Technology, Chinese Academy of Sciences, On Being a Scientist, May 18, 2007.
47. Xidian University, Mechanisms for Trusted Resource Sharing in Collaborative High-End Computing Platforms, May 15, 2007.
48. Xidian University, Adaptive Privacy-Preserving Authentication in Vehicular Networks, May 14, 2007.
49. University of Delaware, Mechanisms for Resource Sharing in Non-Cooperative Environments, May 9, 2007.
50. Telcordia Inc., Adaptive Privacy-Preserving Authentication in Vehicular Networks, May 4, 2007.
51. Albion College, Opportunities and Challenges of Wireless Sensor Networks: A Systems Perspective, Sep. 28 2006
52. Oakland University, Trusted Resource Sharing in Non-cooperative Environments, Feb. 2, 2006
53. Michigan State University, Dynamic Application Protocol Adaptation in Heterogeneous Environments, Nov. 11, 2005
54. Metro Detroit Science Teachers Association (MDSTA), Research on Mobile Systems, Security and Wireless Sensor Networks, October 29, 2005
55. CS Graduate Seminar, The landscape of computer security: Where are we now and where are we going? March 22, 2005.
56. Wayne State University. Department of Mathematics, The landscape of computer security, February 2005
57. Bell Lab, Two System Supports for Ubiquitous Content Access July 12, 2001
58. IBM T. J. Watson Research Center, Systems Support for Ubiquitous Content Access May 23, 2001