

Dr. Zhen Jiang, Associate Professor

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Teaching Experience (* Newly developed):

Undergraduate courses

CSC110 Fundamentals of Computer Science	09 Fall
CSC115 Introduction to Computer Programming, Visual Basic version	02 Fall, 03 Fall, 04 Spring, 04 Fall, 05 Spring, 05 Fall, 06 Spring, 06 Fall, 07 Fall, 08 Spring, 08 Fall, 09 Spring, 12 Spring, 12 Fall, 13 Spring
*CSC115 Introduction to Computer Programming, Matlab version	10 Fall, 11 Fall, 15 Spring, 15 Fall
CSC141 Computer Science I, C++ version	02 Fall, 03 Fall
CSC141 Computer Science I, Java version	11 Spring, 12 Spring, 13 Spring, 14 Spring, 15 Spring
CSC142 Computer Science II, C++ version	03 Spring
CSC142 Computer Science II, Java version	07 Spring, 08 Spring, 13 Fall, 14 Fall
*CST221 Database Systems	10 Fall, 11 Fall, 12 Fall, 13 Fall, 14 Fall, 15 Fall
CSC240 Computer Science III	04 Summer
*CSC321 Database Management Systems	11 Spring, 12 Spring, 13 Spring, 14 Spring, 15 Spring
*CSC371 Computer Graphics	03 Summer

Graduate courses

CSC513 Computer Programming II	03 Spring
*CSC530 Data Structures	04 Fall, 05 Fall, 06 Fall, 07 Fall, 08 Fall, 09 Fall, 10 Fall, 11 Fall, 12 Fall, 13 Fall, 14 Fall, 15 Fall
*CSC545 Database System Concepts	04 Spring, 06 Spring, 08 Spring, 14 Spring, 15 Spring
*CSC573 Graphics and User Interfaces	03 Spring
*CSC581 Topics in Computer Science	03 Spring, 05 Spring
*CSC582 Software Development	07 Spring, 09 Spring, 14 Spring, 15 Spring
*CSC589 UML and Pattern	07 Fall
CSC610 Independent Research	06 Spring, 06 Fall, 11 Spring

Distance education (sponsored by the CAS Dean's office and distance education office)

*CS062 Data analysis and processing	Shanghai Jiaotong University	11 Summer, 12 Summer
*Summer training for technical paper writing	Hangzhou Dianzi University	12 Summer
*Data analysis and processing	ChongQing University	12 Summer

Education dissemination

CIS1068 Program Design and Abstraction	Temple University	13 Spring, 13 Fall, 14 Spring, 14 Fall, 15 Spring, 15 Fall
*Summer training for gifted middle school students	West Chest School district	07 Summer

Scholarship Awards & Grants:

Support for Research Activities

- IEEE MASS 2010 **best paper award**, for the paper coauthored with a graduate student.

- “Acquisition of the graduate assistant for an interdisciplinary research and education project”, granted by CAS the Dean’s office, August 2010, student assistantship support.
- ”TF:SING-A new method for resource management in wireless sensor networks”, granted by **National Science Foundation**, CCF 0840891, NSF research project support.
- “Information model for avoiding wasting time and energy in detours around hole areas in wireless sensor network”, Provost Office special matching grant, 2008, student assistantship support.
- ”Information Model for Avoiding Wasting Time and Energy in Detours around Hole Areas in Wireless Sensor Networks”, granted by FDC 2007-Fall, faculty release-time support.
- “A Mobility Control Scheme for Complete Coverage in Wireless Sensor Networks”, granted by CASSDA 2007-Fall, student assistantship support.
- “Acquisition of the Support for the Research and Education on Unified Modeling Language (UML) at WCU”, Local FDC grants at WCU, 2005-2006, faculty release-time support.
- “An information model for high assurance in network communication”, CASSDA 2003, student assistantship support.
- “An Information Model for High Assurance in Network Communication”, travel grant, supported by WCU New Faculty Development Grant 2003.

Support for Education Practice

- Designation of the Information Security Center (ISC) at WCU, as one of the national centers of Academic Excellence in Cyber Defense Education through 2020, received from the **National IA Education Training Program (NIETP) of National Security Agency (NSA)** on June 2nd 2015, as the center directorate.
- Certification of the Information Security Center, for meeting the national standards of NSTISSI 4011 and CNSSI 4013E through 2017, received from **National Security Agency CNS** in June 2012, as the center directorate.
- “Requisition of Support for Outreach to Set up International Distance Education”, granted by CAS the Dean’s office, December 2011.
- “A novel teaching model for computer training”, granted by the President’s office, Nov. 2010.
- “An efficient teaching model for computer training”, granted by the CAS Dean’s office, Dec. 2010.
- ”CCF: SGER: TF: SING - A new method for resource management in wireless sensor networks”, granted by Research Experiences for Undergraduates (REU) program at **National Science Foundation**, CCF 0936942, 2009-2011.
- “UML Training at Jiangxi Normal University”, granted by Information on WCU International Collaborative Sponsored Research Program, 2005.
- Computer Science Training for Gifted Middle School Students”, supported by Summer Academy for Gifted Children Committee, 2006-07

Scholarship Activities:

- **Accomplished sharing with a significant technical depth**
 - **10** journal publications (6 since 2007) since 2002.
 - **31** publications in peer-review conferences (among them, 26 are in ACM/IEEE conferences) since 2002.
 - **21** Invited campus visits and talks: Lehigh University, Montclair State University, Stevens Institute of Technology, Tsinghua University, Shanghai Jiaotong University, Fudan University, Beijing University, Beijing University of Posts & Telecommunications, Chinese Academy of Sciences, Nanjing University, East China Normal University, Hong Kong Polytechnic University, City University of Hong Kong, Hong Kong Science and Technology University, Huazhong University of Science and Technology, National University of Defense Technology, Central South University, Hunan University of Science and Technology, Chongqing University, Zhejiang University, University of Electronic Science and Technology of China, Shenzhen Institute of Advanced Technology, etc.

- Seminar speaker in Computer & Information Science Department at University of Delaware, February 27th, 2008 & March 23rd, 2011.
- Invited tutor for the tutorial at the 3rd International Symposium, ISPA2005.
- Guest of the Int'l Workshop on Theoretical and Algorithmic Aspects of Sensor, Ad-hoc Wireless and Peer-to-Peer Networks, 2004.
- **Applying knowledge in a broad research area**
 - National Science Foundation Panelist, 2008-2009
 - External reviewer for Research Grant Council, Hong Kong, China, 2007-present.
 - Panelist for Global Environment for Network Innovations office, 2009-present.
 - External reviewer for Tenure and promotion at Missouri State University, 2008-2010
 - Reviewer for book(s) or book chapter(s)
 - Database Fundamentals, The handbook of Technology Management, Wiley, 2008
 - Mobile Ad Hoc Networking Concept and its Immediate Applications in the Commercial World, Bentham Science Publishers, 2008.
 - Reviewer for conferences and journals annually (see the details in service section).
- **Professional growth and recognition**
 - Area Editor of International Journal of Ad Hoc & Sensor Wireless Networks, 2008-2013 (reassigned due to the new assignment as the directorate of ISC at WCU).
 - Guest Editor (2)
 1. Human-Involved Computational Systems.
 2. International Journal of Distributed Sensor Networks.
 - Editorial Committee member of International Journal of Sensor and Its Applications.
 - Editorial Board member (5)
 1. International Journal of Mobile Computing, World Academic Publishing Inc.
 2. International Journal of Computer Science, Engineering, Technologies and Applications.
 3. MASAUM Journal of Computing.
 4. ISRN Communication
 5. Journal of Computing and Applications
- **Teacher-scholar activities**
 - Invited joint research with Temple University, Lehigh University, Hong Kong Polytechnic University, Hong Kong Science and Technology University, etc, supported by NSF grant CCF 0840891.
 - Project participant (invited)
 - “US Ignite: Mobility-enhanced Public Safety Surveillance System using 3D Cameras and High Speed Broadband Networks,” supported by NSF CNS 1449860, 2014-16.
 - “Enhancing Undergraduate Experience in Mobile Cloud Computing,” supported by NSF grant CNS 1460971, 2015-2018.
 - “Enhancing Undergraduate Experience in Next Generation Networking Technologies,” supported by NSF grant CNS 1156574, 2012-2016.
 - “MRI-R2: Acquisition: A Hybrid High-Performance GPU/CPU System”, supported by NSF grant CNS 0958854, 2010-2013.
 - “Sustainable Wireless Communication,” supported by NSF grant CNS 1461296, 2015-2018.
 - Invited joint research
 - “Summer research for undergraduates in visualization and decision informatics,” submitted to NSF by Drexel University in 2012.

Teaching-related Activities:

- Innovation **design** of education program for students to compete in the national level:
 - Develop efficient method to motivate students in introductory computer education, e.g., the collaborative project with Lehigh University that was submitted to NSF (DUE 1245003 Collaborative Research: Introductory Computer Science and Engineering Education with Lab Modules of Wireless Sensing).

- Contact with local industry companies and build the intern partnership, e.g., Gnostech Inc.
- Share software tools and other pedagogical materials with CAE institutions, e.g., NC A&T State University.
- Lead the curriculum upgrade of 23 courses at WCU as the ISC directorate, in order to cover more than 700 topics that are required in the assessment of NSA NIETP.
- Create opportunities for undergraduates to participate NSF research projects, e.g., REU at Temple.
- Build joint programs to prepare undergraduates for higher level training or working opportunity, e.g., the collaborative project with Temple University that was submitted to NSF (DUE 1302767 Collaborative Project: Training Cyber-security Workforce).
- Work on exchange programs for faculties and students, e.g., 3+1+2 program at WCU for student exchange between US and China.
- **Accomplishment** of Dr. Jiang's education practice since 2007:
 - Introductory computer education for student motivation-driven learning.
 - From Computer Science I and other general education courses, engage students to participate and compete in the intern applications, e.g., a successful transformation of Rebecca Makar in 2013 Fall in Dr. Jiang's class, who is a transfer student from community college, to the awardee of the best student in 2015, who received multiple offers from NY Silicon Alley.
 - Encourage and supervise the work of both undergraduates (e.g., Jennifer Tsan) and graduates (e.g., Daniel Mead) in their participant of the NSF research projects, in order to better prepare them for their future careers, such as Ph.D. study enrollment and employment at IBM, etc.
 - Share knowledge and guide students to participate the competition in the national level at their early stage, e.g., Paul Sabatino who won both NSA intern and REU position of NSF/DOD at Temple in his first year study at WCU from Dr. Jiang's CSC141.
 - Develop granted projects to attract undergraduate students to research work (e.g., Devan Parker from English department in NSF granted project CCF 0936942).
 - Research-oriented training in various levels.
 - Introduce research projects (e.g., campus surveillance, supported by Temple NSF grant CNS 1449860) to curriculum in class
 - Use commercial-off-the-shelf products (e.g., Wii-game like equipment, supported by Dr. Cheng Liang from Laboratory of Networking Group and CSE department of Lehigh University) and real world applications (e.g., mice surveillance, supported by Dr. Xin Fan from Biology Department).
 - Adopt modules to help students learn the materials with a significant technical depth in a very short time frame.
 - Apply various pedagogy methods to keep student working hard, becoming dedicated person working hours needed
 - Focus on attitude transformation (textbook learning vs. research and innovation), efficient learning methodology, and language skills, e.g., a brief introduction available at <http://www.cs.wcupa.edu/isc/ISC2015.pdf> and http://www.cs.wcupa.edu/~zjiang/WCU_openhouse.pdf.
 - Engage students to conduct research work (e.g., [C20, C26, C32, C33] in Dr. Jiang's conference publication list and more technical reports at a lower level

available upon request), from class project, independent study, and assistantship work supported by grants.

- Encourage students to take the promotion opportunities of higher education (e.g., Jennifer Krantz's graduate study after she coauthored the research paper [C20] as an undergraduate, and Jennifer Tsan's Ph.D. student enrollment after she finished the research paper [C32] as an undergraduate).
- Train essential skills for undergraduates at Shanghai Jiaotong University (SJTU) to conduct research (e.g., [C29, C30]), who are selected for attending the ACM International Collegiate Programming Contest, where SJTU has won three world champion titles.
- Co-supervise research work in other schools (e.g., [J12, C14, C19, C22, C25, C28, C29, C30]).
- Create international exchange programs, in both WCU and Temple.
- Provide guidance for scholarship development of faculties at Chinese schools (e.g., [T17, T19, T24] in Dr. Jiang's list of invited talks) and visiting scholars (e.g., [C34]).

Service Activities:

- Leadership in **faculty service**
 - Director of the Information Security Center at WCU, 4/2012 – present, leading the activities in scholarship development, curriculum upgrading, and renewal of the certificate program under the National Security Agency (NSA) standards.
- Chair of the organization in conferences (**professional services**).
 - Finance and Registration chair of ACM MobiHoc 2014, IEEE MASS 2009-16
 - Publicity Chair of IEEE ICCCN 2011.
 - Publication Chair of IEEE NAS 2010.
 - Workshop chair of IEEE WSNS'06-12 (IEEE MASS workshops)
 - Program chair of FCST2011, WiSP'08-ICDCS workshop, MSN'06, IEEE WSNS'05-MASS workshop, CS&I'03-JCIS
 - Local chair of Mobiquitous'07, 2007, Philadelphia
- **Contributions to academy** (in the international level).
 - Program Committee
IEEE INFOCOM'16, FiCloud'15, SIN'15, SENSORCOMM'15, PECCS'15, IEEE ICNC'15, IEEE INFOCOM'15, SENSORCOMM'14, SIN'14, IEEE INFOCOM'14, PECCS'14, IEEE ICCCN'14, SENSORCOMM'13, SIN'13, IEEE NAS'13, IEEE INFOCOM'13, PECCS'12, IEEE NAS'12, SIN'12, SENSORCOMM'12, IEEE NAS'11, ICEBE'11, SIN'11, SENSORCOMM'11, IEEE INFOCOM'11, PECCS'11, SENSORCOMM'10, IEEE VTC'10, IEEE ICC'10, IWDTN'10, SIN'10, SENSORCOMM'09, IEEE WIDA'09, ScalCOM'09, SIN'09, IEEE WASA'09, IEEE MASS'09, IEEE INFOCOM'09, IEEE ICC'09, NBIS'09, IEEE WIDA'08, SENSORCOMM'08, InfoScale'08, SECUBIQ'07, SENSORCOMM'07, IEEE DASC'07, IEEE PCAC'06, IEEE DASC'06, 1st IEEE International Workshop on Pervasive Computing and Ad-hoc Communications-2006, AHSP'05, IEEE SNS'05-IPDPS workshop, ICWN'05, SECUBIQ'05.
 - Editorial Review Board for international journals
ACM transactions on Sensor Networks, IEEE transactions on Vehicular Technology, Int. J. of High Performance Computing and Networking (IJHPCN), IEEE transactions on Cloud Computing, IEEE transactions on Computers (TC), IEEE transactions on Parallel and Distributed Systems (TPDS), Journal of Parallel and Distributed Computing (JPDC), Journal of Recent Patents on Telecommunications, International Journal of Parallel, Emergent and Distributed Systems (JPEDS), International Journal of Distributed Sensor Networks (IJDSN), International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC), IEEE transactions on Information Forensics and

- Security (TIFS), Journal of Security and Communication Networks (SCN), IEEE Signal Processing Letters (SPL), International Journal of Computer Networks (COMNET), IEEE Wireless Communications Magazine, Journal of Sensor and Actuator Networks (JSAN), IEEE transactions on Mobile Computing (TMC), Journal of Mobile Networks and Applications (MONE), Journal of Communication Software and Systems (JCOMSS), Journal of Ad Hoc and Sensor Wireless Networks, International Journal of Security and Networks (IJSN), Journal of Wireless Networks (WINET), International Journal of Computer Science, Engineering, Technologies and Applications (IJCSETA), EURASIP Journal on Wireless Communications and Networking (EURASIP JWCN), International Journal of Computers and Applications, International Journal of Autonomous and Adaptive Communications (IJAAACS), IEEE transactions on Networking (TNET), Journal of Information Science and Engineering (JISE), African Journal of Agricultural Research, International Journal on Advances in Systems and Measurements (IARIA), International Journal of Sensor Networks, IEEE transactions on Reliability (TR)
- Member of the ITM Department's External Program Review Team for Delaware Valley College, 2005.
 - **Service in on-campus committees (making contribution to the research in the university).**
 - New Faculty Orientation Committee member 2004-2012
 - Evaluation Policy & Training Committee member (also called Promotion Tenure Workshop Committee), 2009-2011
 - Sabbatical Leave Committee member 2011-2014
 - Faculty Grants Development Committee member 2011-2014
 - CAS undergraduate research award committee member 2011-present
 - CS Department graduate study committee member 2002-present
 - **Off-campus activities.**
 - IEEE/ACM member participated in ACM and IEEE local meetings.
 - Council committee member of computer club.
 - President of the Computer Federation in SJTU, 1989-1990.

Journal Publications (10/13 since 2002 with WCU, 6/10 since tenured in 2007)

- [J13] Z. Jiang, Z. Li, N. Xiao, Jie Wu, "Capability Information: A Cost-effective Information Model for Multi-hop Routing of Wireless Ad Hoc Networks in the Real Environment", JPDC, April 2011, document is also available at <http://www.sciencedirect.com/>.
- [J12] X. Chen, Q. J. Gu, Z. Jiang, and J. Wu, "Fast Mobility Control Protocols with Sink Location Protection in Wireless Sensor Networks", *the International Journal of Internet Protocol Technology, Indersciences*, Vol 6. No. ½, 2011.
- [J11] Z. Jiang, J. Wu, and R. Kline, "Mobility Control for Achieving Optimal Configuration in Wireless Sensor Networks", *Journal of Wireless Networks*, Vol. 16, No. 1, Kluwer Academic Publishers Hingham, MA, USA, January, 2010.
- [J10] Z. Jiang, and J. Wu, "On Achieving the Shortest-Path Routing in 2-D Meshes", *International Journal of Foundations of Computer Science*, Vol. 18, No. 6, 2008, p1279-1297.
- [J9] Z. Jiang, J. Wu, and R. Kline, "Mobility Control for Achieving Optimal Configuration in Wireless Sensor Networks", *Journal of Wireless Networks*, on-line publication, available at <http://www.springerlink.com/content/u516nr6m3m504102/>, June, 2008.
- [J8] Z. Jiang, J. Wu, and D. Wang, "A New Fault-information Model for Adaptive & Minimal Routing in 3-D Meshes", *IEEE Transactions on Reliability*, Vol. 57, No. 1, March 2008, p149-162.
- [J7] Z. Jiang and J. Wu, "A Limited-Global Information Model for Fault Tolerant Routing in Dual-Cube", *International Journal of Parallel, Emergent and Distributed Systems*, Vol. 21, No. 1, February 2006, p61-77.
- [J6] J. Wu and Z. Jiang, "On Constructing the Minimum Orthogonal Convex Polygon in 2-D Faculty Meshes", *IEEE Transactions on Reliability*, Vol. 54, No. 3, September 2005, p449-458.

- [J5] J. Wu and Z. Jiang, "Extended Minimal Routing in 2-D Meshes with Faulty Blocks", International Journal of High Performance Computing and Networking (IJHPCN), Vol. 1, No. 1/2/3, 2004, p140-152.
- [J4] Z. Jiang and J. Wu, "Fault-Tolerant Broadcasting in 2-D Wormhole-Routed Meshes", Journal of supercomputing, Vol. 25, No. 3, 2003, p255-275.
- [J3] Z. Jiang, Z. Jing, and L. Xie, "Design of a network service in COSA", Journal of Software, Vol. 9, Supplement, 1998, p5-9.
- [J2] Z. Jiang and L. Xie, "An abstract data description based on Petri Net", Journal of Northwest University, National Science Edition, Vol. 27, 1997, p31-38.
The Sixth International Conference on Petri Net, July, Xian, P.R.China,
<http://sei.nwu.edu.cn/petri/PetriT.html>
- [J1] Z. Jin, D. He, H. Huang, Z. Jiang, and L. Xie, "Design and implementation of CONETV2.0", Chinese Journal of Computers, Vol. 22, No. 6, 1999, p 656-661.

Referred Conference Publications and Presentations (best paper award in 2010)

- [C34] P. Liu, B. Xu, Z. Jiang, and J. Wu, "HAEP: Hospital Assignment for Emergency Patients in a Big City", Proc. of the 24th IEEE International Conference on Computer Communications and Networks, Aug. 3-6, Las Vegas, NV, 2015.
- [C33] Z. Jiang, J. Wu, and P. Sabatino, "GUI: GPS-Less Traffic Congestion Avoidance in Urban Areas with Inter-Vehicular Communication", Proc. of the 11th IEEE International Conference on Mobile Ad-hoc and Sensor Systems, Oct. 28-30, Philadelphia, PA, 2014.
- [C32] J. Wu, P. Sabatino, J. Tsan, and Z. Jiang, "An Infrastructure-less Vehicle Counting without Disruption", Proc. of the 43rd International Conference on Parallel Processing, September 9-12, Minneapolis, MN, 2014, received the best paper award nomination.
- [C31] X. Chen, Z. Jiang, K. Xiong, and J. Shen, "Practical Routing Protocol for Impromptu Mobile Social Networks", Proc. of the 12th IEEE International Conference on Embedded and Ubiquitous Computing, August 26-28, Milan, Italy, 2014.
- [C30] Z. Jiang, J. Wu, M. Guo, Z. Zhao, and D. Wu, "A Quick and Reliable Routing for Infrastructure Surveillance with Wireless Sensor Networks", Proc. of the 31st IEEE International Symposium on Reliable Distributed Systems, October 8-11, Irvine, CA, 2012.
- [C29] Z. Jiang, D. Wu, M. Guo, J. Wu, R. Kline, and X. Wang, "Minimum Latency Broadcasting with Conflict Awareness in Wireless Sensor Networks", Proc. of the 41st International Conference on Parallel Processing, September 10-13, Pittsburgh, PA, 2012.
- [C28] Y. Wang, J. Wu, Z. Jiang, and F. Li, "A Joint Replication-Migration-based Routing in Delay Tolerant Networks", Proc. of the IEEE International Conference on Communications, June 10-15, Ottawa, Canada, 2012.
- [C27] Z. Jiang, E. Fernandez, and L. Cheng, "A Pedagogical Pattern for Teaching Computer Programming to Non-CS majors", Proc. of the 18th Conference on Pattern Language of Program (PLoP), in conjunction with FLASH 2011, October 21-23, Portland, OR, 2011.
- [C26] Z. Jiang, R. Ito, J. Wu, "A Metric for Routing in Delay-Sensitive Applications of Wireless Sensor Networks", best paper award, Proc. of IEEE MASS, San Francisco, CA, November, 2010.
- [C25] Z. Jiang, Z. Li, N. Xiao, Jie Wu, "CR: Capability Information for Routing of Wireless Ad Hoc Networks in the Real Environment", Proc. of IEEE NAS, Macau, SAR, China, July 15-17, 2010.
- [C24] Q. Gu, X. Chen, Z. Jiang, J. Wu, "Sink-Anonymity Mobility Control in Wireless Sensor Networks", IEEE WiMob 2009, Marrakech, Morocco, October, 2009.
- [C23] Z. Jiang, and E. Fernandez, "Composing Analysis Patterns to Build Complex Models: Flight Reservation", Proc. of the 16th Conference on Pattern Language of Program (PLoP), in conjunction with Agile 2009, August 28-30, Chicago, 2009.
- [C22] Z. Jiang, J. Ma, W. Lou, and J. Wu, "A Straightforward Path Routing in Wireless Ad Hoc Sensor Networks", WWASN-ICDCS workshop in conjunction with ICDCS 2009.
- [C21] J. Wu and Z. Jiang, "A Hierarchical Structure based Coverage Repair in Wireless Sensor Networks", Proc. of IEEE PIMRC'08, 2008, CD-ROM.

- [C20] Z. Jiang, J. Wu, R. Kline, and J. Krantz, "Mobility Control for Complete Coverage in Wireless Sensor Networks", Proc. of WWASN (ICDCS-workshop), 2008, CD-ROM.
- [C19] Z. Jiang, J. Ma, W. Lou, and J. Wu, "An Information Model for Geographic Greedy Forwarding in Wireless Ad Hoc Sensor Networks", Proc. of IEEE INFOCOM'08, 2008, p825-833.
- [C18] X. Chen, Z. Jiang, and J. Wu, "Mobility Control Schemes with Quick Convergence in Wireless Sensor Networks", Proc. of APDCM'08 (IEEE IPDPS workshop), 2008.
- [C17] Z. Jiang, J. Wu, A. Agah, and B. Lu, "Topology Control for Secured Coverage in Wireless Sensor Networks", Proc. of WSNS'07 (IEEE MASS-workshop), 2007, CD-ROM.
- [C16] Z. Jiang, and J. Wu, "On Achieving the Shortest-Path Routing in 2-D Meshes", Proc. of APDCM 2007 (IEEE IPDPS-workshop), Long Beach, CA, 2007, CD-ROM.
- [C15] Z. Jiang, J. Wu, and R. Kline, "Localized Mobility Control with Inconsistent Views of Neighborhood in Mobile Networks", Proc. of the IEEE International Workshop on Networking, Architecture, and Storages (IEEE NAS'06), Shenyang, China, 2006, p9-14.
- [C14] Z. Jiang, R. Kline, J. Wu, and F. Dai, "A Practical Method to Form Energy Efficient Connected K-Coverage in Wireless Sensor Networks", WWASN'06 (ICDCS- workshop), Lisboa, Portugal, 2006, CD-ROM.
- [C13] Z. Jiang, J. Wu, and D. Wang, "A New Fault Information Model for Fault-Tolerant Adaptive and Minimal Routing in 3-D Meshes", Proc. of ICPP'05, 2005, p500-507.
- [C12] Z. Jiang, "Data access control and measure in development of web-based health insurance system", Proc. of the workshop on Secure Knowledge Management, Amherst, NY, September 23-24, 2004
- [C11] Z. Jiang and J. Wu, "A limited-global fault information model for dynamic routing in n-D meshes", Proc. of the 18th International Parallel and Distributed Processing Symposium (IPDPS'04), Santa Fe, NM, CD-ROM.
- [C10] J. Wu and Z. Jiang, "On constructing the Minimum Orthogonal Convex Polygon in 2-D Faulty Meshes", Proc. of the 18th International Parallel and Distributed Processing Symposium (IPDPS'04), Santa Fe, NM, CD-ROM.
- [C9] Z. Jiang and J. Wu, "Fault-Tolerant Routing in Dual-Cube Networks", Proc. of the 7th International Conference on Computer Science and Informatics in conjunction with the 7th Joint Conference on Information Sciences, September 26-30, 2003, Cary, NC.
- [C8] Z. Jiang and J. Wu, "A limited-global-information model for dynamic fault-tolerant routing in cube-based multicomputers", Proc. of the 2nd IEEE International Symposium on Network Computing and Applications (IEEE NCA-03), April 16-18, 2003, Cambridge, Massachusetts. p333-340.
- [C7] Z. Jiang and J. Wu, "A limited-global-information model for fault-tolerant routing in dual-cubes", Proc. of the IEEE FTPDS (IPDPS-workshop), 2003, France, CD-ROM.
- [C6] Z. Jiang and J. Wu, "A limited-global-information model for dynamic routing in 3-D meshes", Proc. of the 15th International Conference on Parallel and Distribute Computing Systems, (ISCA PDCS'02), September 19-21, 2002, Louisville, Kentucky, p343-348.
- [C5] J. Wu and Z. Jiang, "Extended minimal routing in 2-D meshes with faulty blocks", Proc. of the 22nd International Conference on Distributed Computing Systems – workshops, July 2-5, 2002, Vienna, Austria, p49-54
- [C4] Z. Jiang and J. Wu, "A limited-global-information model for dynamic routing in 2-D meshes", the 3rd Workshop on Parallel and Distributed Scientific and Engineering Computing with Applications (PDSECA-IEEE IPDPS workshop), April 15-19, 2002, Ft. Lauderdale, FL, CD-ROM.
- [C3] Z. Jiang and J. Wu, "Dynamic fault-tolerant routing in 2-D meshes", Proc. of the sixth IEEE International Symposium on High Assurance Systems Engineering, October 22-24, 2001, Boca Raton, FL.
- [C2] J. Wu and Z. Jiang, "Dynamic fault-tolerant routing in cube-based multi-computers", Proc. of the 13th IASTED International Conference on Parallel and Distributed Computing and systems, August 21-24, 2001, p228-233, Nominated as the best paper.

- [C1] Z. Jiang and J. Wu, "A fault-tolerant broadcasting in 2-D wormhole-routed meshes", Proc. of the 2001 International Conference on Parallel and Distributed Processing Techniques and Applications, June 25-28, 2001, Las Vegas, p2028-2034.

Book

- [B1] Z. Jiang, and Y. Pan, "From Problem towards Solution: Wireless Sensor Networks Security", Nova Publishers, May 2009.

Invited Talks & Seminars (21/23 since 2007), and Posters (3 in 2009-10)

- [T26] Z. Jiang, "Reducing broadcasting latency in duty cycle wireless sensor networks", invited talk at Computer Science Department, Chongqing University, July 7th, 2011. Information is available at <http://news.cqu.edu.cn/news/article/show.php?itemid=36499>
- [T25] Z. Jiang, "Dynamics vs Stabilization: The key in Reliable Communication of Real Time Wireless Sensor Networks", invited talk at Computer Science Department, University of Electronic Science and Technology of China, June 30th, 2011.
- [T24] Z. Jiang, "CS/CE Education with Lab Modules of Wireless Sensing", invited talk at Shenzhen Institute of Advanced Technology, June 22nd, 2011. Information is available at <http://szs.siat.ac.cn/content/listContent.action?pager.offset=10&page=2&cid=4>.
- [T23] Z. Jiang, "Minimum Latency Broadcasting in Wireless Sensor Networks", Seminar talk at Computer Science Department, Shanghai Jiaotong University, April 18, 2011.
- [T22] Z. Jiang, "Handling dynamics in real time wireless sensor systems", Seminar talk at Computer & Information Science Department, University of Delaware, March 23, 2011.
- [T21] R. Ito, Z. Jiang, "Control Scheme for Surveillance Coverage in Wireless Sensor Networks", Poster presentation of the 25th Pennsylvania Computer and Information Science Educators (PACISE) Conference, April 9th, 2010.
- [T20] Z. Jiang, "A new information model for routing in wireless ad hoc sensor networks", invited talk, Computer Science Department, Shanghai Jiaotong Univ., March 29th, 2010.
- [T19] Z. Jiang, "Technical paper writing for journal and conference submission", invited talk, Institute of Networking and Information Security, National University of Defense Technology, March 19th, 2010.
- [T18] Z. Jiang, "A new information model for routing in wireless sensor networks", invited talk, School of Computer Science and Engineering, Hunan University of Science and Technology, March 18th, 2010.
- [T17] Z. Jiang, "Writing technique for journal and conference submission", invited talk, Institute of Information Science and Engineering, Central South Univ., March 17th, 2010.
- [T16] Z. Jiang, "A new information model for routing in dynamic networks", invited talk, Institute of Information Science and Engineering, Central South University, March 16th, 2010. Information available at <http://sise.csu.edu.cn/newsDeal.do?method=readNewsInfo&newsid=368>.
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