

Curriculum Vitae

Dr. Neal Xiong
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Neal Xiong, Dr.
Associate Prof., **Computer Science Program Chair**
Department of Computer Science and Mathematics
Sul Ross State University
Alpine, TX 79830, USA

Associate Professor, Tenure Track
Peer Review List & Promotion are given by this link:
<https://drive.google.com/drive/u/0/folders/17WyoQRpQbRiFnwyvVDbznXYAjteUr1WO>

Education

- Ph.D. Japan Advanced Institute of Science and Technology
School of Information Science
- Ph.D. earned in March of 2008
 - in area: Fault-tolerant System/Networks,
GPA 3.67, Rank: 1/27, Top 1%
 - **Thesis:** Design and Analysis of Quality of Service on **Fault-tolerant Communication Networks** (on Network Security)
- Ph.D. Wuhan University
School of Computer Science
- Ph.D. earned in June of 2007, **Rank: 1/69, Top 1%**
 - in the area of **Software Engineering**
 - **Thesis:** Res. on QoS of Network Based on Congestion Control Schemes (on Network Performance)
- M.E. Central China Normal University
Department of Computer Science
- M.E. earned in June of 2004, **Rank: 1/18, Top 1%**
 - **Thesis:** Research on Congestion Control of Many-to-many Multicast (on Network Security)
- B.E. Hubei University of Technology
- Department of Computer Science and Technology
 - Thesis: Distributed intrusion detection and response system (security software realization)

Academic and Professional Experience

2021.7 – Present *Sul Ross State University (SRSU)*
Department of Computer Science and Mathematics

Alpine, TX

- **Associate Professor, Chair for Computer Science Program**, with Tenure Track, **4 years' Credits for Promotion**
- Teaching responsibilities include online and live classes in computer science and information systems, schedule the possible courses.

2017.7 – 2021.6

*Northeastern State University (NSU)
Department of Mathematics and Computer Science
Tahlequah, Oklahoma*

- **Associate Professor**, with Tenure Track, **6 years' Credits for Promotion**
- Teaching responsibilities include online and live classes in computer science and information systems.

2015.7 – 2017.7

*Southwestern Oklahoma State University (SWOSU)
Everett Dobson School of Business and Technology
Weatherford, Oklahoma*

- Assistant Professor, with Tenure Track
- Teaching responsibilities include online and live classes in computer science and information systems.

2012.4 – 2015.7

*Eastern American Science and Technology, LLC
CEO, CTO, Organize a small business company
Colorado Springs, Colorado*

- **Get several data analysis projects** with companies, and the government.
- Use Python, Ruby, R, Java, C++, C to design some embedded systems, and optimize some traditional software engineering plans.

2012.4 – 2015.7

*Colorado Technical University (CTU)
Department of Computer Science
Colorado Springs, Colorado
Professor, with Tenure Track*

- Teach courses and conduct research in cyber security, software engineering, information assurance, database systems, Fault-tolerant/Secure Networks, Wired/wireless network communications, Programming Languages (C, C++, JAVA), cloud computing, object-oriented analysis and design, and system architecture.
- Teach course in **class room setting and online**; facilitate online discussion forum.
- Use blackboard systems to register student grades and handle classroom materials (homework, exam, quiz).
- Configured all computers in the laboratory for in-class exercise.

2008.4 – 2011.7

*Georgia State University (GSU)
Department of Computer Science
Atlanta, Georgia*

Adjunct Assistant Professor, Visiting AP, Research Scientist

- Teach courses and conduct research in cloud computing based on IBM-GSU education cloud.
- Work under Research Director of IS & T and Dept of CS
- Virtual Computing Lab (VCL), Center of Information Systems & Technology

- Supported by the US National Science Foundation CAREER Award and by Foundation from Information Systems & Technology, Georgia State University

2005.4 – 2008.3

Japan Advanced Institute of Science and Technology (JAIST)
School of Information Science
Japan

- Research Assistant Instructor of President Prof. Takuya Katayama in Foundations of Software Lab
- Teach courses and have research seminar each week.

2004.6 – 2005.4

Wuhan University
Computer School
China

- Research Assistant Instructor of Prof. Yanxiang He, State Key Lab of Software Engineering

2002.9 – 2004.6

Central China Normal University (CCNU)
Dept. of Computer Science
China

- Research Assistant Instructor of President Prof. Liansheng Tan, in Computer Networks Lab
- Researcher and Programmer, participated in two projects: “Health Management Information System of Chinese Athlete;” “Expert diagnosis system for the sports injury of the excellent national athletes in China;” Using JAVA, C++, R, Ruby, and Perl

2002.9 – 2003.7

Wuhan Univ. of Science and Technology. Zhongnan Branch
School of Information Engineering
China.

- Lecturer, Part time, for undergraduate students
- Teaching in Courses: “Network Communications”, “Database Systems”, “C Programming Principles and Practice”; “Programming in JAVA”

2001.9 – 2002.9

China National Software and Service Corporation
Info-sec Innovation Lab
Beijing, China

- **Software Engineer, Data Analytics**
- Participant in research and implementation of the information security product: “Distributed intrusion detection and response system;” using JAVA, R, Ruby, C++, HTML and other development tools and utilized object-oriented design and concept.

Teaching Experience (over 20 years, including 15 years in USA)

8) Teaching courses in the Dept. of Computer Science and Mathematics, SRSU, 2021.7 – Present

CS 1320 Computer Science II
 CS 3310 Computer Communications
 CS 3320 Object-Oriented Program

CSAT 4311 Senior Capstone II
CSST 3322 Secure Program Practices
CS 4320 Software Engineering
CS 1309 Computer Science I
CS 2315 Data Structures
CS 3331 Advanced Database Systems.
CS 4340 Computer Architecture.
CSAT 4310 Senior Capstone I.
CSST 4374 Network Defense
CSST 3322 Secure Program Practices
CSAT 3360 User Interface Programming
CSST 3382 Cyber Sec Plan & Mgmt
CSST 4372 Intrusion Detect/Prevent

7) Teaching courses in the Dept. of Mathematics and Computer Science, NSU, 2017.7 – Present

CS 2014 Computer Science I, 6 courses, C++
CS 2163 Computer Science II, 4 courses, C++
CS 3343 Computer Operating Systems, 4 courses
CS 3663 Principles of TCP/IP, 5 courses
CS 4343 Database Management Systems, 6 courses
CS 4103 SEL TOPICS IN COMP SCIENCE (cloud computing), 2 courses.
CS 4103 SEL TOPICS IN COMP SCIENCE (mobile applications), 1 course.
CS 4233 Professional Development in Computer Science, 7 courses
CS 1003 Computers in Modern Society, 1 course.
CS 3633, INTERNET SECURITY, 1 course.
CS 3643 Programming for Cyber Security, 1 course.

6) Teaching courses in the Dept. of Business and Computer Science, SWOSU, 2015.7 – 2017.7

COMSC 4913 E-Commerce Web Development, 2 courses.
COMSC 3153 Data Communication/Networks, 2 courses.
COMSC 4953 CS/IS Capstone, 2 courses.
COMSC 2413 Python Programming, 2 courses.
COMSC 3053 Operating Systems, 2 course
COMSC 1053 Computer Science II -Java, 2 courses.
COMSC 3403 Database Systems-SQL, 2 courses.
COMSC 2413 Data structures, 2 courses.

5) Teaching courses in the Dept of CS, Colorado Technical University, 2012 – 2015.6

CSC 460 – Programming for Cloud Computing; (undergraduate students)
CSC 665 – Cloud Computing Systems; (graduate students)
CSC 610 – Relational Database Management Systems; (graduate students)
CSC 482 – Software Engineering Capstone II /IT Capstone II; (undergraduate students)
CSC 246 – Structured Query Language; (undergraduate students)
CSC 200 – Introduction to Networking; (undergraduate students)
CSC 115 – Programming with Java; (undergraduate students)
IT 256 – Java Systems; (undergraduate students)
CSC 105 – Problem Solving Concepts with C++; (undergraduate students)
IT 300 – Advanced Networks; (undergraduate students)

CSC 660 – System Engineering; (graduate students)
IT 697 – Information Technology Capstone; (graduate students)

CSC 642 – Networking Administration; (graduate students)
CSC 640 – Networking and Telecommunications; (graduate students)

4) Teaching courses in Georgia State University, USA (only English):

CSC 8220: Design and Analysis of Advanced Computer Networks
CSC 8910: Special Topics Seminar: Biological Networks Programming C/C++;
Programming in JAVA; Object-oriented Design and Development;
CSC 6999: Advanced Cloud Computing
CSC 4998: Cloud Computing Applications
CSC 2310: JAVA Programming
CSC 355: Database Management System
CSC 605: Operating Systems

3) Teaching courses in Japan (English):

“Fault-tolerant Communication Networks”; “Programming in JAVA”; “Database Systems Design and Concepts”; “Graphic Design and Website Development”; “Theory Foundation of Computer Science”

2) Teaching courses in China (English):

For undergraduate students, Advanced Networks, Network Communications, Database Systems, C Programming Principles and Practice, Graphic Design and website development, Programming in JAVA

1) Study in Central China Normal University (CCNU), obtain the master degree (3 years) of **teaching education** on computer science:

It is based on **comprehensive theory exams & training lectures and extensive teaching experience**, where he was not only taught some knowledge on computer science, but also **trained on how to become a good teacher**. Thus, acquire much knowledge about psychics and pedagogics in CCNU, including higher education legislation, pedagogy, psychology, and professional ethics.

Research Interests

(1) Cybersecurity, Dependable IoT System Design, Privacy and Anonymity, Artificial Intelligence for Security, Sensor Security, Security Usability and Measurement, Machine Learning and Security for Electronics, Blockchain and Distributed Systems

(2) Data Science and Analytics: Big Data: Multi-Fields Query Processing, Big Data Analytics, Artificial Intelligence (AI), Online Aggregation, Data Mining, Data Management Systems, (Computing based on OU Supercomputing Center and IBM Cloud Computing platform, Maintain and Run IBM cloud with software engineering over 4 years)

(3) Software Engineering: Algorithms & Data structures, Software design, Programming for the Web, Database queries, Software test, Artificial Intelligence (AI), Software evaluation and applications

(4) Embedded System Design, Fault-tolerant embedded systems, Security Computing, Dependable Software systems, Advanced networks

(+) Basic Method: Optimization, Statistics, Software Engineering, Artificial Intelligence, Computational mathematics, Information theory

Professional Memberships

- ❖ **Publons:** 719, about 250 IEEE Journal, <https://publons.com/researcher/1741923/naixue-xiong/>
- ❖ **DBLP:** 711 (Journal 531, Conf. 148), <https://dblp.uni-trier.de/pid/x/NaixueXiong.html>
- ❖ **Research Gate:** 49.21; <https://www.researchgate.net/profile/Naixue-Xiong>
- ❖ **Google:** H-index: 73, i10-index: 271, Citations: 14512;
<https://scholar.google.com/citations?user=PVsywkAAAAAJ&hl=en>
- ❖ **Scopus/Orcid:** 765 papers, 14541 citations, <https://www.scopus.com/authid/detail.uri?authorId=35231569200>

- ❖ Set up a new journal “Parallel & Cloud Computing” as EIC,
and it is published by American V-king Scientific Publishing.

- ❖ **IEEE Senior Member (from 2012-now),**
- ❖ IEEE Member (from 2008 to 2012),
- ❖ IEEE Student Member (from 20016 to 2008)
- ❖ Chair of IEEE Computational Intelligence Society (CIS),
Trusted Cloud Computing Group
- ❖ IEEE Computer Society Senior Membership:
IEEE Senior Member: 8038 0262
- ❖ IEEE-CS Technical Committee on Parallel Processing (TCPP):
Member
- ❖ IEEE Computational Intelligence Society (CIS):
Intelligent Systems Applications
- ❖ IEEE Technical Committee on Scalable Computing (IEEE TCSC):
Secretary

16. **Co-Editor-in-Chief**, Journal of Internet Technology (2014 to Present)
Published by Executive Committee, Taiwan Academic Network, Ministry of Education, Taipei, Taiwan, ROC, (SCIE, EI, DBLP).

15. **Editor-in-Chief**, Journal of Parallel & Cloud Computing (PCC), (2012 to Present)
<http://www.j-pcc.org/editorialBoard.aspx>

14. **Associate Editorial Members**, IEEE Trans. on Network Science and Engineering (TNSE)
SCI/EI, the master journal (IEEE, Impact Factor: 5.231/2019) (2020 to Present)

13. **Associate Editorial Members**, IEEE Trans. on System, Man and Cybernetics, part A/Systems SCI/
EI, the master journal (IEEE, Impact Factor: 13.5/2021) (2012 to Present)

12. **Associate Editorial Members**, Information Science, (2012 to Present)
SCI, the master journal (ELSEVIER, Impact Factor: 8.23/2022)
<http://www.elsevier.com/wps/find/journaldescription.cwshome/505730/description>

11. Journal of Software
Editorial Board Members, EI, the master journal (one of the best, top 2nd in China)
<http://www.jos.org.cn/ch/reader/viewfixedcontent.aspx?id=bwh>

10. International Journal of Information Technology, Communications and Convergence (IJITCC)
InderScience, Editorial Board Members,
<http://www.inderscience.com/browse/index.php?journalCODE=ijitcc>

9. Guest reviewer, Transactions on Neural Systems & Rehabilitation Engineering
2009, added my name to its reviewer database.

8. Editor, Editor of Ambient Intelligence and Humanized Computing
Springer-Verlag, The Journal will publish its first issue in Jan. 2010, (SCIE).
7. Editor of IET Communications
www.ietdl.org/IET-COM, the merger of The Institution of Electrical Engineers (IEE) and Institution of Incorporated Engineers (IIE) to form the Institution of Engineering and Technology (IET), SCIE, (IF: 0.316) 2008–
6. Associate editors, International Journal of Multimedia and Ubiquitous Engineering (IJMUE)
Publishing by SERSC: Science and Engineering Research Support Center, 2008–
5. Editorial Member, International Journal on Autonomous and Adaptive Communications Systems (IJAACS), Publishing by Inderscience Publishers, publishing for more than 25 years, 2008–
4. Editorial Board Member, International Journal of Arts and Technology (IJART)
Publishing by Inderscience Publishers, publishing for more than 25 years, 2008–
3. Editorial Member, International Journal of High Performance Computing and Networking (IJHPCN)
Publishing by Inderscience Publishers, publishing for more than 25 years, 2008–
2. International Journal of Pervasive Computing and Communications (JPCC)
Editorial Board Member, Emerald Group Publishing, 2008–
1. International Journal of Smart Home (IJSH)
Editorial Board Member, Publishing by SERSC: Science and Engineering Research Support Center, 2008–

Selected Professional Meetings and Conferences: C97 (over 100)

- 97. Workshop chair for Track 23 (Deep Learning: Algorithms, Systems, and Applications),
Technical Program Committee Members,
The 7th International Conference on Artificial Intelligence and Security (ICAIS 2021), will be
held in Dublin, Ireland, in July 19-23,2021.**
- 96. Sponsorship chair for ACM Middleware 2021
The 22nd ACM/IFIP International Conference, in Quebec City, CA, in Dec. 6-10, 2021,
<https://middleware-conf.github.io/2021/organizing-committee/>**
- 95. Special Sessions Chair (Data Security and Privacy Protection for Cloud Storage)
INTERNATIONAL CONFERENCE ON SYSTEMS, MAN, AND CYBERNETICS
(SMC2020), TORONTO, CANADA, OCT 11-14, 2020**
- 94. Program Chairs,
The 5th International Conference on Smart Computing and Communication (SmartCom
2020), in Paris, France, in Dec 29-31, 2020.**
- 93. Technical Program Committee Members (TPC)
The 22nd IEEE International Conference on High Performance Computing and
Communications (HPCC-2020), in Fiji (east side of Australia), 14-16 December 2020**

92. **Workshop chair for Track 21 (Deep Learning: Algorithms, Systems, and Applications), Technical Program Committee Members, The 6th International Conference on Artificial Intelligence and Security (ICAIS 2020), will be held in Hohhot, China, in July 17-20, 2020.**
91. **Special Sessions Chair (Organizer for SS04), Special Session on “Enabling technologies of Healthcare 4.0: from industrial revolution to healthcare revolution” in IEEE International Conference on Industrial Cyber-Physical Systems (IEEE ICPS 2019), May 6-9, 2019, Taipei, Taiwan.**
90. **Special Sessions Chair (Principal Organizer for SS15), Special Session on “Heterogeneous Computation in Intelligent Industrial”, in IEEE International Conference on Industrial Cyber-Physical Systems (IEEE ICPS 2019), May 6-9, 2019, Taipei, Taiwan.**
89. **Sessions Chair, the 4th International Conference on Cloud Computing and Security (ICCCS 2018), held in Haikou, China, from 8-10, June 2018, June 2018 in Haikou, China**
88. **Special session chair for "Intelligent Big Data Computing for Future Internet of Things", in the 20th International Conference on Advance Computational Intelligence (ICACI 2018), at Xiamen, China, March 29-31, 2018.**
87. **Program Committee Member, International Conference on Information Society and Smart Cities (ISC 2018), Oxford city, United Kingdom, 06-07 June, 2018.**
86. **Track 6 Chair - Mobile Computing and Communication, in the 15th International Symposium on Pervasive Systems, Algorithms, and Networks (I-SPAN 2018), Yichang, China, October 16-18, 2018.**
85. **Workshop and Special Session Chairs, in the 11th IEEE International Conference on Internet of Things (iThings-2018), Halifax, Canada, July 30-Aug 03, 2018.**
84. **Will Give a poster, OK Research Day, Northwestern Oklahoma State University, March 9, 2018.**
83. **Give a keynote presentation, in the Supercomputing Symposium 2017, Hosted by U Oklahoma in OK city, (from Sep 26 to Sep 27, 2017).**
82. **Give a poster, in the Supercomputing Symposium 2017, Hosted by U Oklahoma in OK city, (from Sep 26 to Sep 27, 2017).**
81. **The 13th International Symposium on Bioinformatics Research and Applications (ISBRA), Waikiki Beach Marriott Resort & Spa, Honolulu, Hawaii, May 30 - June 2, 2017.**
80. **General Chair, give a keynote speech, and give another 2 presentation about submitted papers, The International Workshop on Ubiquitous Cloud Computing 2017 (UCC 2017), In conjunction with FutureTech 2017 May 22-24, 2017, Seoul, Korea.**
79. **TPC member, give a keynote speech, ICCCS 2017, The 3rd International Conference on Cloud Computing and Security (ICCCS2017), June 16-18, 2017, Nanjing, China.**

78. **General Chair, International Workshop on System Modeling, Simulation and Evaluation (SMSE) May 22-24, 2017, Seoul, Korea.**
77. **Workshop Chairs, The 12th International Conference on Future Information Technology (FutureTech2017), May 22-24, 2017, Seoul, Korea, <http://futuretech-conference.org/2017>.**
76. Technical program committee for ICC'12 NGN
(**IEEE ICC 2012 - Next-Generation Networking Symposium**).
75. MUSIC-12 **Workshop Chair**. <http://www.ftrai.org/music2012/callforpaper.php>,
The 3rd International Conference on Mobile, Ubiquitous, and Intelligent Computing (MUSIC 2012)
<http://www.ftrai.org/music2012>; Vancouver, Canada, 26-28 June 2012
74. ICNC'12 - CLD (International Conference on Computing, Networking and Communications, Cloud Computing and Networking Symposium), TPC
73. MobiQuitous 2011
Invited TPC
72. the **track chair** for the past FCST-10 held in Changchun, China (<http://ccst.jlu.edu.cn/fcst/>).
<http://trust.csu.edu.cn/conference/FCST2011/>
"(9) Reliability, Fault Tolerance and Distributed Transaction Processing Track"
71. **publicity chairs** for SQC-11 (<http://trust.csu.edu.cn/conference/SQC2011/>)
A workshop to be held in conjunction with TrustCom-11.
69. as a TPC member for the ICNC'12 - MCVC (International Conference on Computing, Networking and Communications,
Mobile Computing and Vehicle Communications Symposium).
68. technical program committee for GC'11 - WN
(IEEE GLOBECOM 2011 - Wireless Networking Symposium)
67. International Workshop on Information Assurance and Security (WIAS-11)
in conjunction with the 2nd International Conference on Ambient Systems, Networks and Technologies (ANT-2011),
Niagara Falls, Ontario, Canada. **General Chairs** and WIAS-2011 programme committee
66. Invitation as Program Committee, The 10th WSEAS International Conference on COMPUTATIONAL INTELLIGENCE,
MAN-MACHINE SYSTEMS and CYBERNETICS (CIMMACS '11) - Bina Nusantara, Jakarta Indonesia, 1-3 December 2011
65. the 6th edition of the International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC 2011), will be held in Barcelona, Spain on October 26-28, 2011
(<http://www.lsi.upc.edu/~net4all/3PGCIC-2010/>), **the track co-chair** for the ****Security, Dependability and Reliability in Grids and Clouds****
64. TPC for ICCCN 2011,
Track on Broadband Access (BAT).
63. Workshop Chair for CSE 2011
(The 14th IEEE International Conference on Computational Science and Engineering)
62. "The 31th IEEE International Conference on Computer Communications (IEEE INFOCOM 2012),"
Guest Technical Program Committee, Top 1 IEEE conference in Rank 1.
61. "The 30th IEEE International Conference on Computer Communications (IEEE INFOCOM 2011),"
Shanghai, China, Technical Program Committee, Top 1 IEEE conference in Rank 1.
60. "The International Workshop on Ubiquitous Network Computing 2010 (UNC'10)"
In conjunction with IEEE APSCC 2010, December 6 - 10, 2010, Hangzhou, China, General Chair,
Program Chair
59. "ICC'11 NGNI (ICC 2011 Next Generation Networking and Internet Symposium)"

- be held in Kyoto, Japan, June 2011. the technical program committee
58. “The 2010 International Symposium on Service, Security and its Data management technologies in Ubi-comp (SSDU-10)”, Xi’an, China, 26-29 October, 2010. Publicity Co-chairs
 57. “The 30th IEEE International Conference on Computer Communications (IEEE INFOCOM 2011),” Technical Program Committee
 56. “The 2010 International Workshop on Computer Image and its Applications (CIA-10),” <http://www.ftrai.org/cia2010> Cebu, Philippines, August 11-13, 2010 Program Co-Chairs
 55. “ATC2010 7th international conference on autonomic and trusted computing,” Xi’an China, Oct. 26-29, 2010, <http://www.nwpu.edu.cn/atc2010/>, Publicity Chairs
 54. “MONET,” dependable computing; Program Chairs
 53. “The 2nd international conference on cloud computing technology and science,” Program Vice Chairs
 52. “The 2st International Conference on Cloud Computing Technology (CloudCom 2010),” <http://www.cloudcom.org/>, program vice chair, USA.
 51. “The 7th International Conference on Autonomic and Trusted Computing (ATC 2010),” <http://www.nwpu.edu.cn/atc2010/> Publicity Chairs
 50. Infocom 2010, Guest TPC chair
 49. “Fifth International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC-2010),” Tracks co-chair: Security, Dependability and Reliability
 48. “The 5th Annual International Wireless Internet Conference (WICON 2010).” Singapore Technical program committee, WiCON 2010 MAC Track.
 47. “12th International Conference on Computer and Information Technology 2009 (ICCIT 2009).” TPC
 46. “BSN09, workshop of WICON 2010.” Be **general Chair**.
 45. “International Workshop on Ubiquitous Computing Applications be held with ICUT 09.” (<http://www.icut2009.org/>), **Co-Workshop Chair**.
 44. “The 4th International Conference on Ubiquitous Information Technologies & Applications (ICUT 2009).” **International Liaison Chairs**.
 43. “The 8th IEEE International Conference on Pervasive Intelligence and Computing (PICom-09).” **the publicity chairs**, be held in December 12-14, 2009, Chengdu, China
 42. “The 1st International Conference on Information Science and Engineering (ICISE2009),” Nanjing, China, Dec. 26th – 28th, 2009, **General Chair**
 41. “The International Conference on Wireless Algorithms, Systems and Applications (WASA’09),” August 16-18, 2009, Boston, MA, USA, Guest technical program committee.
 40. “IEEE Globecom 2009 (Next-Generation Networking and Internet Symposium (GC’09)),” Guest technical program committee.
 39. “The International Workshop on Ubiquitous Network Computing 2009 (UNC’09),” **General Chair**, <http://211.67.48.46/UNC2009/>
 38. “2009 International Workshop on Pervasive Multimedia Sensor Networks (PMSN 2009),” **General Chair**, Canada, Aug. 28-31, 2009. <http://lei.shu.deri.googlepages.com/pmsn2009c>
 37. “The International Workshop on Network Security and Trusted Computing (NSTC2009),” **PC Co-chair**, <http://seclab.hust.edu.cn/nstc2009.html>. October 11-14, 2009, Xiamen, China.
 36. “The 4th International Symposium on Cloud and Convergence Computing (2C-Com 09),” **Program Co-Chairs**, in August 29-31, 2009, Canada. In Conjunction with EUC 2009.
 35. “IWCMT 2009, Vehicular Communication Technology Workshop (International Wireless Communications and Mobile Computing Conference 2009)” technical program committee
 34. “The 1st International Conference on Cloud Computing Technology (CloudCom 2009),” <http://www.cloudcom.org/>, **American Liaison Chairs**, China, 2009
 33. “International Conference on Ubiquitous Information science & engineering (UISE2009)” As a **TPC Chair**, Oct 16-18, 2009, Nanjing, China.

32. “The IEEE 4th International Conference on Ubiquitous Information Technologies Applications (IEEE ICUT-09)”
As an **International liaison Chairs**, in Kyushu Sangyo University, Fukuoka, Japan, December 19 - 21, 2009.
31. “The 5th International Wireless Communications and Mobile Computing Conference (IWCMC 2009)” Program Committee, Paper Submission Deadline, 20 December 2008.
30. “The 6th International Conference on Autonomic and Trusted Computing (ATC-09)”
publicity co-chair, 2009
29. “The 3rd International Symposium on Service, Security and its Data management technologies in Ubi-comp (SSDU-09)” **Publicity Co-Chair**, conjunction with GPC 2009, Geneva, Switzerland, 4-8 May 2009.
28. “The 11th IEEE International Conference on High Performance Computing and Communications (HPCC-09)” Program Committee, be held in Seoul, Korea on June 25-27, 2009,
<http://www.sersc.org/HPCC2009/>
27. “The 4th International Conference on Grid and Pervasive Computing GPC’09”
Program Committee, Geneva, Switzerland, May 4-8, 2009.
26. “Pervasive Computing and Ad Hoc Networking Track of the third International Conference on Complex, Intelligent and Software Intensive Systems (CISIS-2009)” Program Committee, Fukuoka, Japan, March 2009.
25. “The 15th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC’09)”
Program Committee, Shanghai, China, December, 2009.
24. “The 16th IEEE International Conference on Network Protocols (ICNP08)”
Invited to serve as a reviewer, Orlando, Florida, October 19-22, 2008, USA.
23. “International Conference on Wireless Algorithms, Systems and Applications (WASA08)”
Technical Program Committee (TPC), October 26-28, 2008, Dallas, TX, USA.
22. “The IEEE International Workshop on Ubiquitous Network Computing 2008 (UNC’08)”
General Chair, Program Chair (Corresponding Chair), Dec. 9-12, 2008, Taiwan.
21. “the 10th IEEE International Conference on High Performance Computing and Communications (HPCC-08)” Technical Program Committee (TPC), Dalian, China, September 25-27, 2008.
20. “The 2008tWorkshop on Dependable and Secure Services Computing (DSSC-08) (In Conjunction with IEEE APSCC 2008)” <http://apsc2008.csie.chu.edu.tw/> December 9-12, 2008, Jiaosi, Yilan, Taiwan. **Publicity Co-Chairs.**
19. “The 2nd IEEE Multi-conference on Systems and Control (MSC), (IEEE MSC’08)”
Program Committee, San Antonio, Texas, USA, September 3-5, 2008.
18. “The 3th International Workshop on Trustworthiness, Reliability and services in Ubiquitous and Sensor neTworks (TRUST 2008)” **Publicity co-chair**, China, December 17-20, 2008.
17. “The 15th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC’08)”
Program Committee, Taiwan, December 15-17, 2008.
16. “ISPA-08 to be held in Sydney” **Publication chair**, Sydney, Dec 2008, by LNCS, and later become one of the editors of LNCS.
15. “The 22nd IEEE International Conference on Advanced Information Networking and Applications (AINA 2008)” PC member; Submission due: Sept. 22, 2007; Gino-Wan, Okinawa, Japan, March 25 - 28, 2008.
14. “The 13th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC’07)”
Session chair on Dependable Networks, Melbourne, Victoria, Australia, December 17-19, 2007.
13. “The 2007 International Conference on Computational Science and Its Applications (ICCSA 2007)”
Invited to serve as a reviewer; Submission due: Apr. 20; Kuala Lumpur, Malaysia, Aug. 26-29, 2007.
12. “The Second International Symposium on Information Security (IS 2007)”
PC member; Submission due: May 24, 2007; Vilamoura, Algarve, Portugal, Nov 26-27, 2007.
11. “The 4th International Conference on Autonomic and Trusted Computing (ATC-07)”
PC member; Submission due: Jan. 15, 2007; Hong Kong, China, July 11-13, 2007.

10. "The IEEE 21st International Conference on Advanced Information Networking and Applications (AINA-07)" PC member; Submission due: Oct. 31, 2006; Niagara Falls, Canada, May 21-23, 2007.
9. "The 2007 International Conference on Ubisafe Computing (UbiSafe-07)"
Publicity chair; Submission due: Nov. 3, 2006; Ontario, Canada, May 21-23, 2007.
8. "The 3rd IEEE International Symposium on Security in Networks and Distributed Systems (SSNDS-07)" PC member; Niagara Falls, Canada, May 21-23, 2007.
7. "20th IEEE Intl. Conf. on Advanced Information Networking and Applications (AINA 2006)"
Session Chair: Ubiquitous Systems; Vienna, Austria. April 2006.
6. "The 3rd International Conference on Ubiquitous Intelligence and Computing (UIC-06)"
PC member, Session Chair: Services, Models, Personal/Social Factors II; Submission due: March 10, 2006.
5. "The 3rd International Conference on Autonomic and Trusted Computing (ATC-06)"
Session Chair: Cryptography, Security and Privacy II; Submission due: March 19, 2006.
4. "The 6th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT'05)" Session Chair, PC member, Organization Member, 2005/12/05 - 2005/12/08.
3. "Wuhan doctor-students' seminar of computer science,"
Supported by Science Committee of Hubei Province and Wuhan University, China;
Sponsor Program Committee Chair, 2004.12-
2. "The 2nd Wuhan doctor-students' seminar of computer science",
Supported by Science Committee of Hubei Province and Wuhan University, China;
Steering Committee Chair, Program Committee Chair, 2004/12/11-2004/12/12.
1. "The 12th computer network and data Communication Conference",
Supported by computer network and data Communication Committee of China and HuaZhong Normal University; Session Chair, PC member, Organization Member, 2002/12/2-2002/12/4.

Scholarly Activities: over 444 papers: J417 + C27

Publications: over 400 journal papers and over 100 conference papers;

Presentations: over 100 conference presentations and visiting presentations;

Scholarly Paper Reviews: over 100 journal and conference papers review.

Published Journal Papers: 417 (*means the corresponding author, all over 500)

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26. Liang Zhou, **Naixue Xiong**, shu lei, Athanasios V. Vasilakos, Jong Hyuk Park, Context-Aware Middleware for Multimedia Services in Heterogeneous Networks. *IEEE Intelligent Systems*, Special Issue on Context-Aware Middleware and Intelligent Agents for Smart Environments., 25(2): 40-47, 2010. (SCI, IF: 2.278/2010)
25. Liansheng Tan, Y. Yang, Chuang Lin, **Naixue Xiong** and Moshe Zukerman, Scalable Parameter Tuning for AVQ, *IEEE Communications Letters*, vol. 9, no.1, Jan. 2005. (SCI, EI; Impact factor: 1.232/2010) (on network communication security)
24. Jucheng Yang, **Naixue Xiong** (corresponding author), Athanasios V. Vasilakos, Zhijun Fang, Xianghua Xu, Sook Yoon, Shanjuan Xie, Yong Yang, “A Fingerprint Recognition Scheme based on Assembling Invariant Moments in Secure Multimedia Flow Communications,” *IEEE System Journal*, SI on Multimedia Communications Systems, *IEEE Systems Journal - IEEE SYST J*, vol. 5, no. 4, pp. 574-583, 2011.
23. Zhijun Fang, **Naixue Xiong** (corresponding author), Laurence T. Yang, Xingming Sun, Yan Yang “Interpolation based Direction-Adaptive DWT and Modified SPIHT for Texture Image Compression, *IEEE System Journal*, SI on Multimedia Communications Systems, vol. 5, no. 4, pp. 584 – 593, 2011.

22. Kai Lin, Joel J. P. C. Rodrigues, **Naixue Xiong**, Hongwei Ge, Energy Efficiency QoS Assurance Routing in Wireless Multimedia Sensor Networks, *IEEE System Journal*, SI on Multimedia Communications Systems, vol. 5, pp. 495 – 505, No. 4, 2011!
21. Guoqiong Liao, Linqing Wu, Changxuan Wan, **Naixue Xiong***, “Practice Frequent Pattern Mining over Uncertain Data Streams based on Probability Damped Window Model,” *IEEE System Journal*, A Practice Probability Frequent Pattern Mining Method over Transactional Uncertain Data Streams, Ubiquitous Intelligence and Computing, Lecture Notes in Computer Science Volume 6905, 2011, pp 563-575.
20. Weiwei Fang, Xiangmin Liang, Shengxin Li, Luca Chiaraviglio, **Naixue Xiong**. VMPlanner: Optimizing Virtual Machine Placement and Traffic Flow Routing to Reduce Network Power Costs in Cloud Data Centers, *Journal of Computer Networks (COMNET)*, 2012. Ref.: Ms. No. COMNET-D-12-161R2, accepted. (SCI, 1.304/2010)
19. **Naixue Xiong**, Athanasios V. Vasilakos, Laurence T. Yang, Cheng-Xiang Wang, Rajgopal Kannan, Chin-Chen Chang, Yi Pan, .A Novel Self-tuning Feedback Controller for Active Queue Management Supporting TCP Flows, *Information Sciences*, vol. 180, no. 11, pp. 2249-2263, 2010, (IF: 3.6/2014).
18. Wei Xiong, **NaixueXiong***, Laurence T. Yang, Athanasios V. Vasilakos, Hanping Hu, Min Chen, Anomaly Detection Methods by Analyzing Dynamic Characteristics of the Cloud Communication Network Traffic, A Special Issue of *Information Sciences* “Cloud Computing Service and Architecture Models”, accepted, 2011, (IF: 3.291/2011).
17. Jan Wan, **Naixue Xiong**, Wei Zhang, Qinchao Zhang, Prioritized Degree Distribution in Wireless Sensor Network with Network Coded Data Collection Method, *Sensors Journal*, Appear 2012.
16. Wenzhong Guo, **Naixue Xiong***, Han-Chieh Chao, Sajid Hussain, Guolong Chen, “Design and Analysis of Self-adapted Task Scheduling Strategy in Wireless Sensor Networks”, *Sensors Journal*, 11(7), 6533-6554; doi:10.3390/s110706533
15. Yuanyuan Zeng, **Naixue Xiong**, Jong Hyuk Park, Guilin Zheng, An Emergency-Adaptive Routing Scheme for Wireless Sensor Networks for Building Fire Hazard Monitoring., A special issue on .Wireless Sensor Network and Its Application in Advanced Computer Science., *Sensors Journal*, Sensors 2010, no. 10, pp. 6128-6148, (IF: 1.870/2010).
14. Xianghua Xu, Jian Wan, Xueyong Gao, **Naixue Xiong**, Trust Index based Fault Tolerant Multiple Event Localization Algorithm in WSN, sensor; Special Issue "Collaborative Sensors", *Sensors Journal*, 11(7), 6555-6574; (SCI, IF: 1.870/2010)
13. Qingfeng Fan, Qiongli WU, Frederic Magoules, **Naixue Xiong**, A. V. Vasilakos, Yanxiang He, Game and Balance Multicast Architecture Algorithms for Data Grid, Special Issue on Sensor Algorithms, *Sensors Journal*, vol. 9, no. 9, pp. 7177-7202, September 2009. (SCI, IF: 1.870/2010)
12. Ruhan He, **Naixue Xiong**, Laurence T. Yang, Jong Hyuk Park, Using Multi-Modal Semantic Association Rules to fuse keywords and visual features automatically for Web image retrieval. *Information Fusion*, Special Issue on Information Fusion in Future Generation Communication Environments, Available online 1 March 2010. (IF: 2.057/2010).
11. Jizi Li, **Naixue Xiong**, Jong Hyuk Park, Chunling Liu, Shihua Ma5, Linfu Sun, Chain-to-chain Inventory Transshipment Model and Robust Control in Resource-constrained CSC Networks, *Concurrency and Computation: Practice and Experience*, <http://www.cc-pe.net/journalinfo/> ATPHPCC2009: Advanced Theory and Practice for High Performance Computing and Communications (ATPHPCC) (SCI, IF: 1.791/2008)
10. Guoliang HE, **Naixue Xiong**, Laurence T. Yang, Tai-hoon Kim, Ching Hsien Hsu, Yuanxiang LI, Evolvable Hardware Design Based on a Novel Simulated Annealing in Embedded Systems. CPE-09-0175.R1, *Concurrency and Computation: Practice and Experience*, SI on Advanced Theory and Practice for High Performance Computing and Communications (ATPHPCC), published online: 7 JUN 2010. (SCI, IF: 1.791/2008)
9. Hongju Cheng, **Naixue Xiong**, Laurence T Yang, Athanasios V. Vasilakos, Xiaofang Zhuang, “Nodes Organization for Channel Assignment with Topology Preservation in Multi-radio Wireless Mesh Networks,” *AD HOC NETWORKS (ELSEVIER) JOURNAL*, Special Issue on COGNITIVE RADIO AD HOC NETWORKS, accepted (1.592/2011)

8. Yonglei Yao, **Naixue Xiong**, Jong Hyuk Park, Li Ma, Jingfa Liu, Privacy-preserving Max/Min Query in Two-tiered Wireless Sensor Networks, *Computers and Mathematics with Applications (CMA)*, accepted, <http://www.sciencedirect.com/science/article/pii/S0898122112001174>, (SCI, 1.747/2012)
7. Yuhua Liu, Yuling Li, **N. Xiong**, Jong Hyuk Park, Yang Sun Lee, "The Incentive Secure Mechanism Based on Quality of Service in P2P Network," *Computers and Mathematics with Applications (CMA)*, 60(2): 224-233, July, 2010. (SCI, 1.747/2012)
6. Yuhua Liu, Shishun Wu, **Naixue Xiong***, Jong Hyuk Park, Kaihua Xu, A Cache-based Search Algorithm in Unstructured P2P Networks, SI of Intelligent Manufacturing, Springer (SCI-E), *Journal of Intelligent Manufacturing*, accepted, 0.938/2009.
5. Fan yang, **Naixue Xiong**, Jong Hyuk Park, A Self-adaptive k Selection Mechanism for Re-Authentication Load Balancing in Large Scale Systems, ID is SUPE-S-10-00653, Special Issue on Enabling Technologies for Programming Extreme Scale Systems, *Journal of Supercomputing*, accepted
4. zhuowei wang, xianbin xu, **Naixue Xiong***, Laurence T. Yang, wuqing zhao, Towards Evaluating Energy Costs of Parallel Algorithms on GPU, A special issue of Journal of *Cluster Computing*, accepted
3. Fei Long, **Naixue Xiong**, Athanasios V. Vasilakos, Laurence T. Yang, Fuchun Sun, and L. Shun. Heuristic QoS Routing Algorithm for LEO/MEO Multi-Layered Satellite Networks. A Sustainable Heuristic QoS Routing Algorithm for Pervasive Multi-Layered Satellite Wireless Networks. ACM/Springer Wireless Networks (WINET), Published online: 22 October 2009. (SCI, IF: 1.194/2008).
2. Liansheng Tan, **Naixue Xiong**, Yan Yang, Peng Yang: A consolidation algorithm for multicast service using proportional control and neural network predictive techniques. *Computer Communication*, 29(1): 114-122 (2005)
1. **Naixue Xiong**, Yan Yang, A Note on Intrusion Detection in Telnet, *Journal of Central China Normal University*, Vol.38, No.2, pp.160-164, 2004.2.

Selected Conference Papers: 27 (full list is over 100 conference papers)

- C27. Grant Duvall, **Neal Xiong**, GAPP: Inventory Tracking Applications in Mobile Networks, *2020 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, CA, Oct 2020, pp. 987-993.
- C26. Sajid Gul, Jingli Ren, Yunlong Zhu, **Neal Xiong**, A Systematic Scheme for Non-Parametric Spatio-Temporal Trend Analysis about Aridity Index, *2020 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, CA, Oct 2020, pp. 981-986.
- C25. Z. Wu, G. Wu, K. Yang, Y. Lan, Z. Chen, Ernst Bekkering, **Naixue Xiong**: Aspect Based Hierarchical System: A Fine-grained Sentiment Analysis System in Edge Computing. *ICPS 2019*: 731-736.
- C24. Hongju Cheng, Leihuo Wu, Yayun Zhang, **Naixue Xiong**: Data recovery in wireless sensor networks using Markov random field model. *ICACI 2018*: 706-711, in Xiamen, China during March 29-31, 2018.
- C23. Wen-Zhong Guo, Ren-Jie Lin, Shi-Ping Wang, **Neal N. Xiong**, A survey on object proposal generation for unsupervised object localization, The 9th International Symposium on Parallel Architectures, Algorithms and Programming (*PAAP'18*), Taiwan, 26-28 December 2018, NSU
- C22. Xin Wang, Yanshuang Ren, Yehui Yang, Wensheng Zhang, **Neal N. Xiong**: A Weighted Discriminative Dictionary Learning Method for Depression Disorder Classification Using fMRI Data. *BDCLOUD-SOCIALCOM-SUSTAINCOM 2016*: 618-623
- C21. Bing Lin, Wenzhong Guo, Guolong Chen, **Naixue Xiong**, Rongrong Li: Cost-Driven Scheduling for Deadline-Constrained Workflow on Multi-clouds. *IPDPS Workshops 2015*: 1191-1198

- C20. Ryan Wen Liu, Di Wu, Chuan-Sheng Wu, **Naixue Xiong**: Hybrid Regularized Blur Kernel Estimation for Single-Image Blind Deconvolution. *SMC 2015*: 1815-1820
- C19. Ryan Wen Liu, Di Wu, Chuan-Sheng Wu, Tian Xu, **Naixue Xiong**: Constrained Nonconvex Hybrid Variational Model for Edge-Preserving Image Restoration. *SMC 2015*: 1809-1814
- C18. Wei Wang, Guisong Yang, **Naixue Xiong**, Xingyu He, Wenzhong Guo: A General P2P Scheme for Constructing Large-Scale Virtual Environments. *IPDPS Workshops 2014*: 1648-1655
- C17. Yang Bo, **Naixue Xiong**, Wenzhong Guo: The Empirical Research of Virtual Enterprise Knowledge Transfer's Effectiveness Faced to the Independent Innovation Ability. *IPDPS Workshops 2014*: 1672-1679
- C16. N. Xiong, G. Tong, J. Tan, F. lv, Z. Wan, A General Noise Reduction System for Speech Communication Intelligibility, *IPDPS14 workshop, The 3rd International Workshop on Parallel and Distributed Computing for Large Scale Machine Learning and Big Data Analytics (ParLearning 2014)*, May 23, 2014, Phoenix, AZ, USA.
- C15. **Naixue Xiong**, Athanasios V. Vasilakos, Jie Wu, Y. Richard Yang, Andrew J Rindos, Yuezhi Zhou, Wen-Zhan Song, Yi Pan, A Self-tuning Failure Detection Scheme for Cloud Computing Service. *26rd IEEE International Parallel and Distributed Processing Symposium (IPDPS 2012)*, pp. 668-679, accepted! (20%, Rank 1)
- C14. **Naixue Xiong**, Kaihua Xu, Lilong Chen, Laurence Tianruo Yang, Yuhua Liu: An Effective Self-adaptive Load Balancing Algorithm for Peer-to-Peer Networks. *IPDPS Workshops 2012*: 1425-1432.
- C13. **Naixue Xiong**, Xavier Defago, Xiaohua Jia, Yan Yang, Yanxiang He, Design and Analysis of a Self-tuning Proportional and Integral Controller for Active Queue Management Routers to Support TCP Flows, *IEEE Infocomm 2006*, Barcelona, Spain, April 23-29, 2006. (the 25th Annual Conference on Computer Communications, EI, acceptance rate: 18%; Impact factor: 1.39/2003, Rank 1) (on network communication security, **Best student paper award nomination**)
- C12. **Naixue Xiong**, Art Vandenberg, Michael L. Russell and Kelly P. Robinson, A Multi-Cloud Computing Scheme for Sharing Computing Resources to Satisfy Local Cloud User Requirements, *The Third International Conference on the Virtual Computing Initiative (support bu IBM), October 22-23, 2009, Research Triangle Park, NC, USA* (<http://renoir.csc.ncsu.edu/ICVCI3/>), number 49, accepted.
- C11. **Naixue Xiong**, Xiaohua Jia, Yang Richard Yang, Athanasios V. Vasilakos, Chin-Chen Chang, Yi Pan, Design and Analysis of a Distributed Flow Control Algorithm based on Multi-rate Multicast Networks, *Infocom09-HSN09*, a workshop on High-Speed Networks Workshop (HSN 2009), Rio De Janeiro, Brazil, April 19-25, 2009 (acceptance rate: 20%, Rank 1).
- C10. N. Xiong, Laurence T. Yang, Yingshu Li, Y. Yang, .A Distributed Neural Network Control Approach for Multicast Services, *The 10th IEEE International Conference on High Performance Computing and Communications (HPCC-08)*, pp. 147-154, Sep. 25-27, 2008. (+75/455, acceptance rate of 16.5%, **only one best paper award**). (on Multicast communication security)
- C9. Yanzhen Qu, **Naixue Xiong***. RFH: A Resilient, Fault-Tolerant and High-efficient Global Replication Algorithm for Cloud Storage, *The 41st International Conference on Parallel Processing (ICPP2012)*, PA, USA, Sep 10-13, 2012, pp. 520-529. (21%, Rank 2)
- C8. Yuanyuan Zeng, Jie Wu, **Naixue Xiong***, Deshi Li: Energy-Efficient Routing and Rate Allocation for Delay Tolerant Networks. *ICDCS Workshops 2012*: 260-266
- C7. Wenlin Han, Wei Xiong, Yang Xiao, Magdy Ellabidy, Athanasios V. Vasilakos, **Naixue Xiong***: A Class of Non-statistical Traffic Anomaly Detection in Complex Network Systems. *ICDCS Workshops 2012*: 640-646
- C6. Zhongjian Le, **Naixue Xiong***, Bo Yang, Yuezhi zhou, "SC-OA: A Secure and Effective Scheme for Origin Authentication of Interdomain Routing in Distributed Networks," *25rd IEEE International Parallel and Distributed Processing Symposium (IPDPS 2011)*, ID: 1569366609, accepted! (112/571=19.6%, Rank 2)

- C5. Chao Ma, Yong Meng Teo, Verdi March, **Naixue Xiong**, Ioana Romelia Pop, Yan Xiang He, Simon See, .An Approach for Matching Communication Patterns in Parallel Applications., *23rd IEEE International Parallel and Distributed Processing Symposium (IPDPS 2009)*, May 25-29, 2009, Rome, Italy. (Rank 2, acceptance rate: 22.7%). (on communication security)
- C4. Chunjie Zhou, Hui Chen, **Naixue Xiong**, Athanasios V. Vasilakos, “Function Block Design for the Reconfigurable Protocol Stack in Networked Control Systems,” *ICC 2011*, pp. 1 – 5, June5-9, 2011, Kyoto, Japan. (Rank 2)
- C3. Zeng Yuanyuan, **Naixue Xiong**, Tai-hoon Kim, Channel Assignment and Scheduling in Multichannel Wireless Sensor Networks. *The 33rd IEEE Conference on Local Computer Networks (LCN 2008)*, pp. 512-513. (Rank 2)
- C2. Yanjun Zhao, Yanqing Zhang, **Naixue Xiong**, “Biological Data Classification Using Rough Sets and Support Vector Machines,” *The 28th North American Fuzzy Information Processing Society Annual Conference (NAFIPS2009)*, the University of Cincinnati, Cincinnati, Ohio, USA, June 14-17, 2009. accepted (EI, **Best student paper reward**).
- C1. Yanxiang He (my supervisor), **Naixue Xiong**, Yan Yang and Chuan Lin, EBA: An efficient bandwidth allocation approach for RPR networks. In the Proceedings of First *ACM SIGCOMM ASIA WORKSHOP 2005*, ACM, April 2005, Beijing, China, pp. 175-181. (ACMSIGCOMM, SCI, EI, 22%, Rank 1) (on network communication security)

Books/ Book chapters: 19

19. Ernst Bekkering, N. Xiong, (pending)

Cybersecurity Technology, Preparing now! 2019-now

18. Cuicui Zhang, N. Xiong, (pending)

Research of Mobile Multimedia Application, Preparing now! 2018-now

17. Heng Zhang, Yanli Liu, Neal Xiong*, Research on 3D Simultaneous Localization and Mapping Fusing Color and Depth Information, Lambert Academic Publishing, accepted in 2017. (NSU)

16. Changhoon Lee, N. Xiong (Guest Editors), SI on “Advanced Technologies and Theories in Future Convergence Telecommunications”, The International Journal of Applied Metaheuristic Computing (IJAMC) journal, (SWOSU)

15. **Naixue Xiong**, Thanos Vasilakos, Laurence T. Yang, Long Fei, and Yingshu Li, “A Rate Predictive Control Scheme Based on Neural Network and Control Theory for Autonomic Communication,” *Chapter 32 in the book of Autonomic Communication*, edited by A. Vasilakos, M. Parashar, S. Karnouskos, W. Pedrycz, Springer Science-Business Media, estimated publication, 2008.

14. L. Shu, M. Hauswirth, Y.Zhang, J. Chen, Y. Yang, **Naixue Xiong**, “Geographic Routing in Wireless Multimedia Sensor Networks”, *A Book chapter, Handbook of Research on Developments and Trends in Wireless Sensor Networks: From Principle to Practice*. Editors: H. Jin, W. Jiang.

13. Chuan Lin, **Naixue Xiong**, Guangbao Du, “Matalab and Digital Signal Processing Experiment,” (Response Editor: Shuping gu), Wuhan University, Teaching material for Eleven-Five (Chinese).

12. Athanasios V. Vasilakos, Neal N. Xiong, Laurence T. Yang, Lin Chuan, Shu Lei, SI on Educational Studies in Mathematics, Journal of Communications, Vol 5, No 1 (2010), 1-4, Jan 2010, doi:10.4304/jcm.5.1.1-4. (Book)

11. Bin Wang, Lotfollah Najjar, Neal N. Xiong and Rung Ching Chen, Special issue of “Stochastic Optimization: Theory and Applications,” Journal of Applied Mathematics, 2013, 2013(4):1-2,
<http://mts.hindawi.com/author/949131/proofs/>

10. Neal N. Xiong, [Hongju Cheng](#), [Sajid Hussain](#), [Yanzhen Qu](#), "Fault-Tolerant and Ubiquitous Computing in Sensor Networks," International Journal of Distributed Sensor Networks, 2013, 2013(3):1380-1383, doi:10.1155/2013/524547.

9. Liang ZHOU, Athanasios Vasilakos, Yan Zhang, Naixue Xiong, Min Chen, Chapter 8, title “Cross layer quality of service support in WLAN”. Book title: “Cross Layer Designs in WLAN Systems,” Troubador Publishing Ltd,

Emerging Communication and Service Technologies Series, Editors: [Nizar Zorba](#), [Christos Verikoukis](#), [Charalabos Skianis](#), 2010. ISBN: 9781848762275. [Book chapter]

8. Fei Li, Y. He, Athanasios V. Vasilakos, and Naixue Xiong, “An Adaptive Architecture of Service Component for Pervasive Computing,” Chapter 15, Book title “Pervasive Computing and Networking”, Editors: Mohammad S. Obaidat, Mieso Denko, and Isaac Woungang, John Wiley & Sons, Ltd., UK., ISBN: 978-0-470-74772-8, 344 pages, June 2011. [Book chapter]

7. Naixue Xiong, “Multimedia Communications over Next Generation Wireless Networks,” EURASIP Journal on Wireless Communications and Networking, 2010, 2010(1):1-2, doi:10.1155/2010/896041. [Book]

6. Naixue Xiong, Athanasios V. Vasilakos, Laurence T. Yang, Long Fei, Lei Shu, and Yingshu Li, “A Rate Feedback Predictive Control Scheme Based on Neural Network and Control Theory for Autonomic Communication,” Springer US, 2009, pp: 93-107, doi: 10.1007/978-0-387-09753-4_4, [Book]

5. Neal N. Xiong*, Hongju Cheng, Sajid H ussain, Yanzhen Qu, “Fault-Tolerant and Ubiquitous Computing in Sensor Networks,” International Journal of Distributed Sensor Networks, 2013, 2013(3):1380-1383, DOI:10.1155/2013/524547. [Book]

4. Design and Analysis of Quality of Service on Fault-tolerant Communication Networks. Neal Xiong

3. Res. on QoS of Network Based on Congestion Control Schemes (on Network Security). Neal Xiong

2. Research on Congestion Control of Many-to-many Multicast (on Network Security). Neal Xiong

1. Distributed intrusion detection and response system (security software realization). Neal Xiong

Selected Submitted papers: 10

J1. **N. Xiong**, A. V. Vasilakos, Y. Richard Yang, and so on, “General Traffic-Feature Analysis for an Effective Failure Detector in Fault-Tolerant Cloud Communication Networks,” *IEEE/ACM Transactions on Networking (ToN)*, submitted.

J2. **N. Xiong**, A. V. Vasilakos, Y. Richard Yang, C. Qiao, Andy, Y. Pan, “A Class of Practical Self-tuning Failure Detection Schemes for Cloud Communication Networks,” *IEEE/ACM Transactions on Networking (ToN)*, submitted.

J3. Liansheng Tan, Jie Li and **Naixue Xiong**, “An Explicit Rate Control Scheme for Multicast Transmissions,” *IEEE/ACM Transactions on Networking (ToN)*, submitted.

J4. **Xiong Naixue**, Athanasios V. Vasilakos, Laurence T. Yang, Witold Pedrycz, “An Efficient Flocking Algorithms for a Group of Autonomous Mobile Robots (An Efficient Autonomous Flocking Scheme for a Group of Mobile Networked Robots),” *IEEE Transactions on SMC: part B*, submitted.

J5. **Naixue Xiong**, Laurence T. Yang, Athanasios V. Vasilakos, Pingyi Fan, “QoS Supporting Rate Control in Wireless Multicast Networks Using Neural Predictive Networks,” *ACM Transactions on Autonomous and Adaptive Systems*, on Special Issue on Self-Adaptive and Self-Organizing Wireless Networking Systems, submitted.

J6. **N. Xiong**, Athanasios V. Vasilakos Laurence T. Yang, Cheng-Xiang Wang, Rajgopal Kannan, “A Novel Self-tuning Feedback Controller for Active Queue Management Supporting TCP Flows,” *INFORMATION SCIENCES*, INS-D- 08-1131, submitted.

J7. **N. Xiong**, Athanasios V. Vasilakos, Cheng-Xiang Wang, Yi Pan, Yingshu Li, “Distributed Explicit Rate Schemes in Wireless Multipoint-to-multipoint Multicast Networks,” *IEEE Transactions on SMC: part C*, submitted.

J8. **Naixue Xiong**, Athanasios V. Vasilakos, Laurence T. Yang, Ekram Hossain, Yi Pan, Yingshu Li, “PIDNN: An Adaptive and Predictive Approach for Multi-rate Multicast Networks,” *IEEE Journal on Selected Areas in Communications (JSAC)*, submitted.

C9. **Naixue Xiong**, Vasilakos, Yang (Richard) Yang, Yingshu Li, ED-FD: An Effective Accrual Failure Detector, *Sigcomm2016*, submitted.

External Funding Requests, External Service

18. Faculty Research Committee (FRC) Grant from NSU, “A Strategic Provisioning Study of Cloud Computing Services and Architecture”. \$5507, April 30, 2019. FY 19, FRC, Dr. Neal Xiong (PI), May 2019 - May 2020. NSU Funding, confirmed.

17. Industrial Funding, Cooperation in NSU and CMC Informatics Inc, April 12, 2020, \$5000, from April 2020 to April 2021, Dr. Neal Xiong (PI). This funding FOAP 24510-T20184-511900 is for "Mathematics and Computer Science Research Lab", confirmed.

16. “2+2 Coeducation Project” between NSU and WHPU, Dr. Neal Xiong (PI), starting from Fall 2018, each year about 10 students from CS and Mathematics (\$50k/yr * 10 person = \$500 k/yr, confirmed, NSU).

15. “2+2 Coeducation Project” between SWOSU and WHPU, Dr. Neal Xiong (PI), starting from Fall 2017, each year about 10 students from CS and about 20 students from Business (\$50k/yr * 30 person = \$1,500 k/yr, confirmed).

14. “Capstone Project – Communication Application for Those with Non-Verbal Autism,” (about \$3,000), FY 17 Organized Research Award, Dr. Neal Xiong (PI), Dr. Jeremy Evert, Adriel Fillippini, SWOSU Funding, confirmed.

13. “Trust Service based on Cloud Computing Platform” Eastern outstanding scholar awards (ShangHai Gov), PI, about \$332k for 3 yr (2015-2017)

12. “Design and Implement of Mobile Network Applications” a collaborative project with NICTA (National Information & Communications Technology Australia Ltd). (\$198k, 4/2014 - 4/2017)

11. “Intelligent mobile terminal network operating systems based on Cloud Computing” (\$1.65M, 4/2013 - 4/2015), National special project of international cooperation in science and technology, ID: 2013DFB10070 (With Prof. Yaoxue Zhang).

10. "Development of USN Sensor Node to Control Food Quality" (\$144,144, 2/2011 - 12/2014), Korea Food Research Institute (KFRI) (with Deuk Heo).

9. Engineering Service project: “Advanced science and technology for cloud computing,” (\$100k, 1/2014 - 1/2016). PI, in cooperation with Long Tang Science and Technology (Zhejiang University), ID: 2014ZJ546.

8. China National Science Foundation (NSF), A class of Cross Layer Research for video transmission in Heterogeneous Wireless Networks, RMB 650,000 (about \$103,174), No: 61162009, accepted, Naixue Xiong (co-PI), 2012-2015.

7. China National Science Foundation (NSF), Adaptive and Dynamic Recovery Strategies for Real-time Databases in Embedded and Mobile Computing Environment, about RMB 430,000 (about \$68,254), ID: 60863016, accepted, Naixue Xiong (co-PI), 2010-2012.

6. Jiangxi Province Nature Science Foundation, China. A class of research on reliable and self-tuning resource management schemes in wireless networks, RMB30,000 (about \$4,762), accepted, Naixue Xiong (PI), 2012

5. Advanced Science and Technology Foundation in Shanghai, China (the 12th-five). Trustworthy Cloud Computing in Large Scale Systems, RMB900,000 (about \$142,857), accepted, Naixue Xiong (PI), 2012

4. Participated in the application

IBM Faculty Award: The IBM Cloud Academy will be a pre-eminent global community to advance the development and deployment of cloud computing technologies in educational institutions providing services from early childhood through higher education.

Prof. Yi Pan (Corresponding applicant), Dr. Naixue Xiong (Co-PI), applied for this fund and accepted two times: 2010 and 2011

3. Participated in the application:

NSF fund: The NSF Cyber infrastructure Training, Education, Advancement, and Mentoring for Our 21st Century

Workforce (CI-TEAM) program supports projects that position the national science and engineering community to engage in integrated research and education activities promoting, leveraging and utilizing cyber infrastructure systems, tools and services. Director Art Vandenberg, Dr. Naixue Xiong, et al. applied for this fund.

2. Participated in the NSF:

NSF Fund: Performed some research on the National Science Foundation (NSF) under Grant CNS-0831634 (Hosted by Prof. Yi Pan)

1. Participated in the NSF:

NSF fund: Performed some research on the US National Science Foundation CAREER Award under Grant No. CCF- 0545667, (Hosted by Prof. Yingshu Li).

Guest Editors for Special Issue: GE30 (over 50)

30. [IEEE Transactions on Industrial Informatics](#), Special Section on The Era of Industry 5.0 – Technologies from No Recognizable H-M Interface to Hearty Touch Personal Products, Neal N. Xiong, Kim Fung Tsang, Juan M. Corchado, Kapal Dev, **Deadline of submission: May 30, 2021**

29. [IEEE Transactions on Network Science and Engineering](#), Special Issue on Network structure and representation learning, Neal N. Xiong, Di Jing, Huawei Shen, Athanasios V. Vasilakos, **Deadline of submission: June 28, 2021**

28. [IEEE Wireless Communications Magazine](#), Special Issue on Enabling Wireless Communication and Networking Technologies for Internet of Things, Naveen Chilamkurti, Alexey Vinel, Wen-Shyen Eric Chen, Seungmin Rho, Neal N. Xiong, Athanasios V. Vasilakos, **Paper Submission Deadline: 1st October 2015**

27. [Alexandria Engineering Journal](#), Special Issue on Multimedia Communications over Next Generation Wireless Networks in Sustainable Smart Cities (Impact Factor: 2.460), Neal N. Xiong, Moustafa M. Nasralla, Miaowen Wen, Iván García-Magariño, **Opened submission date: 1 January 2021, Submission Deadline: 31 December 2021.**

26. **EURASIP Journal on Wireless Communications and Networking**, Neal N. Xiong, Jaime Lloret Mauri, Hongju Cheng, Submission Deadline: 6.30, 2018, <https://jwcn-urasipjournals.springeropen.com/aaiwsn>
25. **Wireless Communications and Mobile Computing (WCMC)**, Special Issue on Topology Control in Emerging Mobile Networks, Neal Xiong, Sajid Hussain, Xiaobing Mao, Submission Deadline: Friday, 6.8, 2018
24. **Sensor**, Special Issue "Sensor Intelligent Data Analysis for Social Networks: Theory and Applications" Deadline for manuscript submissions: 6.30, 2018. Neal N. Xiong, Athanasios V. Vasilakos, Sajid Hussain
23. Special Issue proposal titled "Machine Learning for Wireless Multimedia Data Security" <https://about.hindawi.com/managing-conflicts-of-interest/>, Security and Communication Networks, <https://mts.hindawi.com/guest.editor/journals/scn/mlmlds/>, Submission period: August 31, 2018;
22. **Multimedia Tools and Applications**, SPECIAL ISSUE ON Intelligent Multimedia Big Data Computing for Future Internet of Things; 1105, August 15, 2018; due time to June 30, 2018, Neal N. Xiong, Jaime Lloret Mauri, Sajid Hussain, <https://www.springer.com/?SGWID=0-102-2-1486992-preview&dynamic=true>
21. **Sensors** (ISSN 1424-8220). This special issue belongs to the section "Sensor Networks". Special Issue "Sensor Intelligent Data Analysis for Social Networks: Theory and Applications". Deadline for manuscript submissions: Aug. 30, 2017.
Special Issue Editor: Dr. Neal N. Xiong, Prof. Dr. Athanasios V. Vasilakos, Dr. Sajid Hussain. **Sensor Intelligent Data Analysis for Social Networks: Theory and Applications**, http://www.mdpi.com/journal/sensors/special_issues/intelligent_data_analysis, NSU
20. **Journal of Internet Technology**, (<http://jit.niu.edu.tw/>, Indexed by SCI-E) Special Issue on "Security and Privacy in Cloud Network Environments"
19. **Special Issue "Sensor Computing for Mobile Security and Big Data Analytics"**
A special issue of Sensors (ISSN 1424-8220). This special issue belongs to the section "Sensor Networks" (1.91/2014).
18. **Journal of Applied Mathematics**,
Hindawi Special Issue on Stochastic Optimization: Theory and Applications
17. **EURASIP Journal on Wireless Communications and Networking**,
Spring New Technologies and Research Trends for Mobile and Ubiquitous Multimedia
16. **International Journal of Distributed Sensor Networks**,
Special Issue on Fault-tolerant and Ubiquitous Computing in Sensor Networks, 2012, Guest editors
15. **IET Communications**,
Special Issue on: Wireless Embedded Systems and Networking
14. **International Journal of Sensor Networks (IJSNet)**,
Ubiquitous Computing in Wireless Sensor Networks, 2012, Guest editors
13. **Concurrency and Computation: Practice and Experience**,

<http://www.cc-pe.net/journalinfo/> Special Issue on Multimedia Computing and Management in Cloud Environment, **Guest editors**

12. **Mobile Networks and Applications (MONET)**, Springer.
Special Issue on Information Dependability in Next Generation Mobile Networks, **Guest editors**

11. **the EURASIP Journal on Wireless Communications and Networking**.
SI on Multimedia Communications over Next Generation Wireless Networks, **Guest editors**

10. **ACM/Springer MONET**
Special Issue on Body Sensor Networks, combine conference (Bodynets 2010)

9. **International Journal of Software Engineering and Its Applications (sersc, 2009)**
Special Issue on Workflow Management in the Grid Era, **Guest editors**, Submission Deadline: September 27, 2009

8. **Wireless Network, (SCIE, Springer, 2009)**
SI on Ubiquitous Body Sensor Networks, ACM/Kluwer Wireless Networks, **Guest Editor**

7. **Multimedia Computing and Its Embedded Systems**, Special Issue of the Multimedia Tools and Applications Journal
Guest Editor, SCIE, Springer, 2009.

6. **International Journal of Multimedia and Ubiquitous Engineering (IJMUE)**
Guest editors, Special Issue of (IJMUE), <http://www.sersc.org/journals/IJMUE/>, SCIE, 2009.

5. **Information Fusion**,
Special Issue on Information Fusion in Future Generation Communication Environments
Guest Editor, Publishing by Springer (Naixue Xiong, Jong Hyuk Park, and so on) (SCI), 2008.

4. **Journal of Communications**,
Special Issue on Dependable Computing for Ubiquitous Services (DCUS), 2009 (EI Compendex, etc. 19 indexes),
Corresponding Guest Editor, (Naixue Xiong, Thanos Vasilakos, Lin Chuan, Leon Lei SHU)

3. **International Journal of Software Engineering and Its Applications**,
Special Issue on “Workflow Management in the Grid Era,” 2009 (Jinlei Jiang, Johann Schlichter, Walid Gaaloul, N. Xiong, Leon L. Shu).

2. **International Journal of Interactive Multimedia and Artificial Intelligence**,
Special issue on “Semantic Intelligence,”
2009 (N. Xiong, Leon L. Shu, and so on)(DOAJ, etc. 9 indexes).

1. **International Journal of Future Generation Communication and Networking**,
Special Issue on “Trusted Computing for Wireless Ad Hoc & Sensor Networks,” 2009 (Guangjie Han, Mamun Rashid, Ke Ning, N. Xiong, Leon L. Shu) (SCIE).

Selected Journal Activities: J32 (all over 100)

32. IEEE Access Journal
Reviewers from 2018, SCI, the master journal
31. IEEE Sensors Journal
Reviewers from 2017, SCI, the master journal
30. Wireless Networks
Reviewers from 2010, SCI, the master journal
29. Computer Networks
Reviewers from 2010, SCI, the master journal
28. IEEE Trans. System, Man and Cybernetics, part B
Reviewers from 2008, SCI/EI, the master journal
27. Information Science
Reviewers from 2008, SCI, the master journal (ELSEVIER, Impact Factor: 3.095)
<http://www.elsevier.com/wps/find/journaldescription.cwshome/505730/description>
26. IEEE Transactions on Systems, Man, and Cybernetics, Part C
Invited to serve as a reviewer, 2008.
25. IEEE TRANSACTIONS ON NETWORK AND SERVICE MANAGEMENT
Guest reviewer, 2010
24. IEEE Transactions on Parallel and Distributed Systems (TPDS)
Guest reviewer, 2010
23. IEICE "Trans. on Communications (EB)"
Guest reviewer, 2010
22. Transactions on Embedded Computing Systems
Guest reviewer, 2010
21. Transactions on Systems, Man, and Cybernetics--Part B: Cybernetics
Guest reviewer, 2010
20. IEEE Transactions on Parallel and Distributed Systems (TPDS)
Guest reviewer, 2010
19. Transactions on Information Technology in BioMedicine.
Guest reviewer, 2010
18. ACM Transactions on Autonomous and Adaptive Systems
Guest reviewer, 2010
17. IEEE Journal on Selected Areas in Communications
Guest reviewer, 2010
16. ACM Transactions on Autonomous and Adaptive Systems
Guest reviewer, 2010-2-7
15. IEEE Sensors Journal
Guest reviewer, 2009
14. Transactions on Neural Systems & Rehabilitation Engineering
Guest reviewer, 2009
13. IEEE Sensors Journal
Guest reviewer, 2009
12. IEEE Transactions on Information Technology in BioMedicine,
Guest reviewer, 2009.5.8
11. IEEE Trans. SMC-B Guest reviewer, 2009
Guest reviewer, 2009
10. Future Generation Computer Systems
Guest reviewer, 2009
9. IEEE Transactions on Information Technology in BioMedicine
Guest reviewer, 2009.3.3
8. "Transactions on Computational Science journal,"

- Springer-Verlag, special issue on ‘Security in Computing’,
Guest editorial (reviewer), 2008
7. “IEEE Transactions on Systems, Man, and Cybernetics Part B”
Invited to serve as a reviewer, 2008.
 6. “The IEEE Transactions on Parallel and Distributed Systems”
Invited to serve as a reviewer, 2008.
 5. “IEEE Transactions On Mobile Computing”
Invited to be a reviewer, 2008.
 4. “IEEE Transactions on Communications”
Invited to serve as an International Editorial Board (IEB), indexed by EI, IEEE, 2008.
 3. “Special issue on Grid Resource Management in the IEEE Systems Journal”
(Official Publication of the IEEE Systems Council):
Invited to serve as an International Editorial Board (IEB), indexed by EI, IEEE, 2008.
 2. “The IEEE Transactions on Parallel and Distributed Systems”
Invited to serve as a reviewer, 2007.
 1. “The IEEE Transactions on Systems, Man, and Cybernetics–Part B: Cybernetics”
Invited to serve as a reviewer, 2007.

Patents

***1) Name of the patent: A VOD system and method based on Hadoop and Red5;
The number of application: 201510412860.0; the number of confirmation: 2015071500763730.***

***2) Name of the patent: A general Key generation method;
The number of application: 201510416469.8; the number of confirmation: 2015071600637500.***

Presentation: over 50

1. Sessions Keynote Speech, the 4th International Conference on Cloud Computing and Security (ICCCS 2018), held in Haikou, China, from 8-10, June 2018, June 2018 in Haikou, China.
2. Keynote Speech: Artificial Intelligence Technology for Cloud Service, Oklahoma Supercomputing Symposium 2017, **Norman OK, USA**, September 27, 2017. **NSU**
3. Keynote Speech: A Model and Application of Collaborative Simulation Training System for Substation Based on Virtual Reality, the 12th International Conference on Future Information Technology (FutureTech2017), May 22-24, 2017, **Seoul, Korea**. **NSU**
4. Keynote Speech: Trusted Fault Tolerant Cloud Computing, The Third International Conference on Cloud Computing and Security, (ICCCS 2017), **Nanjing, China**, June 16-18, 2017. **NSU**
5. **The 6th IEEE International Conference on Big Data** and Cloud Computing (**BDCloud 2016**) October 8th - 10th, Atlanta, GA (BDCloud 2016), in Atlanta, GA, paper presentation
6. Oklahoma Supercomputing Symposium 2016, in OK, Keynote speech
7. Oklahoma Supercomputing Symposium 2015, in OK, Keynote speech

Professional Growth and Service

<https://drive.google.com/drive/u/0/folders/17WyoQRpQbRiFnwyvVDbznXYAjteUr1WO>

NSU Faculty Development

- Cooperate with all other faculties in our CS group, and each one has submitted at least one paper, and hope some research work could be accepted finally.
- Attended the “Oneocii” video conference about one time per week, and try to discuss the related supercomputing cooperation and Funding. Prof. Heney Neeman and others over 50 faculties and scientists in OK attended these great meeting, in 2018.
- Attended our Gregg Wadley College of Science & Health Professions meeting, have some training and discussion about how to teach courses, how to communicate with our students, and others in 2018
- Attended Departmental meeting, discussing our individual review noting strengths and weaknesses, discussing those strengths and weaknesses as the Faculty Handbook requires, and others in 2018.
- Lead discussion about the co-education between NSU and “Wuhan Polytechnic University, China and other 2 universities in China”, in 2018.
- Attend the meeting of “Supercomputing in Plain English”, Supercomputing in Plain English (SiPE), Spring 2018
Available live in person and live via videoconferencing (through Tue May 1 2018), in 2018.
- Lead discussion about the co-education between NSU and “Wuhan Polytechnic University, China and other 2 universities in China”, in 2017.
- Attend the workshops of “Big Data Workshop”, workshops at OSU Stillwater, Edmon Low Library, Room 206, OK, in 2017.
- Attended our Gregg Wadley College of Science & Health Professions meeting, have some training and discussion about how to teach courses, how to communicate with our students, and others in 2017
- Attended Departmental meeting, discussing our individual review noting strengths and weaknesses, discussing those strengths and weaknesses as the Faculty Handbook requires, and others in 2017.
- Take care of our visiting scholars: set up meeting time for them, and drove them to airport in Tulsa city, in Fall 2017 (Vice Director Xuan Li could prove it).
- Advised students about the enrollment for spring 2018 (from Sep., 2017)
- Give a poster, in the Supercomputing conference in OK city, supported by Oklahoma University. (from Sep 25 to Sep 26, 2017).
- Give a keynote presentation, in the Supercomputing conference in OK city, supported by Oklahoma University. (from Sep 25 to Sep 26, 2017).
- Attended the “Oneocii” video conference about one time per week, and try to discuss the related supercomputing cooperation and Funding. Prof. Heney Neeman and others over 50 faculties and scientists in OK attended these great meeting, in 2017.
- Published one paper: Chunxue Wu, Wenliang Wu, Caihua Wan, *Bekkering Ernst, Naixue Xiong**, Design and Analysis of a Data Fusion Scheme in Mobile Wireless Sensor Networks Based on Multi-Protocol Mobile Agents, Sensor. Sensors (Basel). 2017 Nov 3;17(11). pii: E2523. doi: 10.3390/s17112523.
- Oklahoma Research Day 2017;

SWOSU Faculty Development

- Attended the “Oneocii” video conference about one time per week, and try to discuss the related supercomputing cooperation and Funding. Prof. Heney Neeman and others over 50 faculties and scientists in OK attended these great meeting, in 2015.
- Met with “Doug Linder” at SWOSU about possible co-research and co-funding (supported by Madeline Baugher)
- Attended Freshman Orientation Instructor Training at SWOSU in 2015.
- Attended SWOSU State Fair Booth, CPGS Coverage, during the Oklahoma State Fair from Sep 11 to Sep 21, 2015.
- Attend the Supercomputing conference in OK city, and our team gave a keynote presentation. (from Sep 21 to Sep 22, 2015).

- The service SOBT on Sep 30, 2015.
- Advised students about the enrollment for spring 2016 (from Sep 28, 2015)
- Take care of our students, and set up weekend lab time for our courses and drove our students to shop in OK city over 6 times, in Fall 2015.
- Attended Everett Dobson School of Business & Tech, Advisory Board Meeting, on Nov 6, 2015.
- Attended Departmental meeting, discussing our individual review noting strengths and weaknesses, discussing those strengths and weaknesses as the Faculty Handbook requires, and others in 2015.
- The first Let's Talk about SWOSU (LTAS) meeting in the Bonny Board Room on the 2nd floor of the Memorial Student Union, on Sep 14, 2015.
- Led discussion about the co-education between SWOSU and "Wuhan Polytechnic University, China and other 2 universities in China", in 2015.
- Attend the meeting of "one OK state", one time in each week, discuss the related research activities, funding, and others (support by Jeremy Evert).
- Discuss with Douglas P. Linder about the possible co-research and co-funding (support by Madeline Baugher)
- Published one paper: Chenyang Zhang, Di Wu, Ryan Wen Liu,, Naixue Xiong, "Non-Local Regularized Variational Model for Image Deblurring under Mixed Gaussian-Impulse Noise," Journal of Internet Technology, Vol. 16 No. 7, PP. 1301-1320, Dec. 2015.
- Oklahoma Research Day 2015;
- Attended SWOSU State Fair Booth, CPGS Coverage, in Sep.15-25, 2016.
- Attend the Supercomputing conference in OK city, and our team gave a keynote presentation. (from Sep 22 to Sep 23, 2016).
- The service SOBT on Sep 30, 2016.
- The enrollment for Fall 2016.
- Attended F16 Online Course Development Workshop, Excellence in Teaching and Learning for online courses, in 2016.
- Spent lots of time to prepare the form of "Course Credit Transfer" between SWOSU and WHPU. Discussed it with Dr. Brian Rickel for his advice. Then also discussed with Dr. Brian Rickel, Jeremy, Madeline, Dr. Karen Sweeney for their advice. This form is confirmed by Madeline finally.
- Attended the "Oneocii" video conference about 3 times, and try to discuss the related supercomputing cooperation and Funding. Prof. Heney Neeman and others over 50 faculties and scientists in OK attended these great meeting.
- With my hard work, and our following research is published in the top IEEE journal "IEEE Tran on SMC: Systems" with high impact factor 2.2. Q. Zhang, C. Zhou, Neal N. Xiong, Y. Qin, X. Li, S. Huang, Multi-Model Based Incident Prediction and Risk Assessment in Dynamic Cybersecurity Protection for Industrial Control Systems, IEEE Tran on SMC: Systems, Vol. 46, No. 10, pp. 1429-1444, Oct 2016. (SWOSU)
- Attended Oklahoma Research Day 2016;
- Attended and gave a presentation at BDCloud conference, in Atlanta, GA, in Oct 8-12, 2016.

Faculty Committees

- **Mentoring committees' actions in NSU:**
 - 1) **Our committees list: Darryl Linde, Martha Parrott, Rad Alrifai**
 - 2) **I meet with each committee about my teaching, service, and undergraduate research**
 - 3) **Martha Parrott observes my Computer Operation Systems course in BA in Feb 2018**
 - 4) **Rad Alrifai observes my Computer Science II (advanced C++) course in Tahlequah in Feb 2018**
 - 5) **Darryl Linde guides me for group up our students and research funding, 2018**

- **Attached is a draft for combining Basic Computer Architecture and Operating Systems to one course. This would free up space for an advanced programming course. 2018.**
- **Faculty Continuance evaluation meeting, Dec., 2017, In NSU**
- **Faculty evaluation meeting, Fall 2017, in NSU.**
- Faculty evaluation meeting, Fall 2016 in SWOSU.
- Faculty evaluation meeting, Fall 2015 in SWOSU.
- Faculty Continuance evaluation meeting (listening), Sep.-Oct., 2015
- Faculty Continuance evaluation meeting, Sep.-Oct., 2016
- Faculty department meeting, 2015, 2016

Honors and Awards

15. Marquis Who's Who has selected you for our official **2018 Albert Nelson Marquis Lifetime Achievement Award**. You have been selected to receive this prestigious award as a result of your hard work and dedication to your profession (NSU, 2018).

14. We are pleased to inform you that **your biography has been selected into Marquis Who's Who**, which is comprised of **the top 3% of the professionals in the world (NSU, 2017)**.

13. **Premium Award for my paper published in the IET Communications**: awarded the 2012 IET Communications Premium Award for the following paper. The IET has one Premium Award available per journal to recognize the best research papers published during the last two years. "Multi-layer clustering routing algorithm for wireless vehicular sensor networks", Y. Liu, N. Xiong, Y. Zhao, A.V. Vasilakos, Kozani, J. Gao, and Y. Jia, IET Communications, April 2010, 4(7), 810-816

12. **2011 Marquis who's who in America**:

Award: I am prompted to enter a V.I.P. Code for the upcoming 2011 Edition of Who's Who in America. <http://www.marquiswhoswho.com/>

11. 2006 Chinese Government Award for Outstanding Self-financed Students Abroad:

Award: By China Government Scholarship Council, For top research in Japan (2nd PhD);
China Government Outstanding Scholarship for all fields;

Only 37 students in Japan, Only 74 in USA for all fields, and 302 students in world, Feb. 28, 2007;

Only 2 students in relevant computer/information/software science/engineering in Japan; Accepted rate << 1%. <http://www.csc.edu.cn/gb/readarticle/readarticle.asp?articleid=2510>;

10. 2008 China Computer Federation Award for Outstanding PhD Thesis (initial choice)

Award: By China Computer Federation, For top research in China (1st PhD);

Only 21 students in China, Nov. 10, 2008; Only 1 student in Wuhan Univ.; Accepted rate << 1%.

<http://www.ccf.org.cn/web/assembly/action/browsePage.do?channelID=1099963972454contentID=1226292440063>.

9. **The best student paper award nomination** of INFOCOM 2006:

Naixue Xiong, Xavier Defago, Xiaohua Jia, Yan Yang, Yanxiang He,

"Design and Analysis of a Self-tuning Proportional and Integral Controller for Active Queue Management Routers to

Support TCP Flows," IEEE INFOCOM 2006, Barcelona, Spain, April 23-29, 2006.

(the 25th Annual Conference on Computer Communications, EI, acceptance rate: 18%; top 5, Best student paper award nomination, IF: 1.39/2003, Rank 1).

8. **The best paper award:** Shouyuan Yang, Zhanjie Song, Jong Hyuk Park, Naixue Xiong, “A High-Capacity CDMA Watermarking Scheme Based on Orthogonal Pseudorandom Sequence Subspace Projection,”
IEEE Conference MUE2011, 28-30 June, Crete, Best paper award.

7. **The best paper award** of HPCC-08:

N. Xiong, Laurence T. Yang, Yingshu Li, Y. Yang,
“A Distributed Neural Network Control Approach for Multicast Services,”
The 10th IEEE International Conference on High Performance Computing and Communications (HPCC-08),
pp.147-154, Sep. 25-27, 2008. (+75/455, acceptance rate of 16.5%, only one best paper award).

6. **The best paper award:** Yanjun Zhao, Yanqing Zhang, Naixue Xiong, “Biological Data Classification Using Rough Sets and Support Vector Machines,” The 28th North American Fuzzy Information Processing Society Annual Conference (NAFIPS2009), the University of Cincinnati, Cincinnati, Ohio, USA, June 14-17, 2009. accepted (EI, best student paper reward).

5. 2007 Excellent PhD Graduation of PhD candidates in Wuhan University:

Award: By Wuhan University, China; Accepted rate about: 1/69.

Only 1 student in total 69 students in computer school, Wuhan University, June, 2007.

4. Japanese Government Monbukagakusho Scholarship as Ph. D. Student:

Award: Japan Government Scholarship, April, 2006–March, 2008; Accepted rate about: 1/19.

School of Information Science, JAIST, Japan, Money: JPY 2 million/year.

3. The 21st Century COE Program: Verifiable and Evolvable e-Society:

Project: Research Assistant: April, 2005 – March, 2006.

School of Information Science, JAIST, Japan, Money: JPY 1.9 million/year.

2. The D.E. Cultivating Thesis: Design and Analysis of selftuning resource allocation schemes on wireless networks:

Award: Wuhan University Excellent Doctor Thesis Cultivating Foundation, China.

Only 1 in Computer School, Wuhan University, 2004/9. (total 15 in all 5577 doctor students in Wuhan University, accepted rate < 1%, Money: RenMinBi 50,000.

1. The M.En. Thesis: Research on Congestion Control of Many-to-many Multicast:

Award: Excellent Master Thesis of Hubei Province, China; Accepted rate < 1%.

Only 1 in Department of Computer Science, Central China Normal University, 2004/6, Money: RenMinBi 3,000.

University and Community Activities

- Push **the education cooperation** between NSU and WHPU (from Fall 2017 to presentation).
- Admissions and **Recruitment** is excited to host another NSU day at one of our community college partner institutions. The next event is scheduled for **December 6, 2017** at Carl Albert State College in Poteau. I go there as one representative from each college whether that were an Academic Advisor or faculty member attend the event. We will have tables set up in

the Costner-Balentine Ballroom. Please bring a tablecloth and any materials you would like to pass out on behalf of your college (NSU).

- Freshman Orientation Instructor, Fall 2016 in SWOSU.
- Freshman Orientation Instructor, Fall 2015 in SWOSU.
- SWIM Exam Administrator for Computer Science/Advanced Java Exam, 2015
- Church Committee Member for Weatherford Church (from Fall 2015 to presentation).
- Push the education cooperation between SWOSU and WHPU (from Fall 2015 to presentation).

Professional References for Dr. Naixue Xiong

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