

## JIE SHENG, PHD

Associate Professor, Institute of Technology,  
University of Washington Tacoma  
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## RESEARCH INTERESTS

Main stream research interests: Control Systems, System Identification/Parameter Estimation  
General research interests: To develop effective and practical solutions to control engineering applications

## EDUCATION

- Ph.D. Electrical Engineering** 2002  
Department of Electrical and Computer Engineering  
University of Alberta, Edmonton, Canada  
Dissertation: Generalized Predictive Control for Multi-rate Systems  
Advisor / Co-advisor: Tongwen Chen / Sirish Shah
- MS Electrical Engineering** 1998  
Department of Automatic Control  
Nanjing University of Aeronautics and Astronautics, Nanjing, P.R. China  
Thesis: Non-linear Compensation Methods to Restrain Pilot Induced Oscillation (PIO) on Fly-by-Wire Flight Control Systems  
Advisor: Suofeng Guo
- BA Electrical Engineering** 1995  
Department of Automatic Control  
Nanjing University of Aeronautics and Astronautics, Nanjing, P.R. China

## PROFESSIONAL EXPERIENCE

- Associate Professor** Sep. 2015 – present  
Institute of Technology, University of Washington, Tacoma, WA
- Assistant Professor** Jan. 2009 – Aug. 2015  
Institute of Technology, University of Washington, Tacoma, WA
- Assistant Professor** Aug. 2006 – Dec. 2008  
Department of Computer Engineering, DigiPen Institute of technology, Redmond, WA
- Lecturer** Aug. 2004 – July 2006  
School of Electrical Engineering and Telecommunications, Univ. of New South Wales, Sydney, Australia
- NSERC Post-Doctoral Fellow** Jul. 2003 – Jun. 2004  
Coordinated Science Laboratory, University of Illinois at Urbana-Champaign, USA
- Post-Doctoral Fellow** Jul. 2002 – Jun. 2003  
Department of Electrical and Computer Engineering, University of Alberta, Canada
- Sessional Instructor** Fall term, 2002  
Department of Electrical and Computer Engineering, University of Alberta, Canada

## PUBLICATIONS

### Journal Papers

- [JFI15] Chen, F., Ding, F., and Sheng, J. (2015) [Maximum likelihood based recursive parameter estimation for controlled autoregressive ARMA systems using the data filtering technique](#). *Journal of the Franklin Institute*, Vol. 352, Issue 12, pp. 5882-5896. (Impact Factor: 2.418)

2. [JCSE14] Sheng, J., Chung, S., Hansel, L., McLane, D., Morrah, J., Baeg, S. H. and Park S. (2014). [JAUS to EtherCAT Bridge: Toward Real-Time and Deterministic Joint Architecture for Unmanned Systems](http://dx.doi.org/10.1155/2014/631487). *Journal of Control Science and Engineering*, Volume 2014 (2014), Article ID 631487, 20 pages, <http://dx.doi.org/10.1155/2014/631487>. (Impact factor: 2012 Evaluation Pending)
3. [NON14] Li, X., Zhou, L., Sheng, J. and Ding, R. (2014). [Recursive least squares parameter estimation algorithm for dual-rate sampled-data nonlinear systems](https://doi.org/10.1007/s11071-013-1212-1). *Nonlinear Dynamics*, 01/2014; DOI:10.1007/s11071-013-1212-1. (2012 Impact Factor: 3.009)
4. [JFI13] Hu, P., Ding, F. and Sheng, J. (2013). [Auxiliary model based least squares parameter estimation algorithm for feedback nonlinear systems using the hierarchical identification principle](https://doi.org/10.1007/s11071-013-1212-1). *Journal of the Franklin Institute*, Vol. 350, Issue 10, pp. 3248-3259. (Impact Factor: 2.418)
5. [OCAM13] Zhang, H., Liu, M., Shi, Y. and Sheng, J. (2013). [Extended LMI representatives for stability and stabilization of discrete-time Takagi-Sugeno fuzzy systems](https://doi.org/10.1002/oca.2092). *Optimal Control, Applications and Methods*. doi: 10.1002/oca.2092. (Impact Factor: 1.062)
6. [MPE13] Li, X., Zhou, L., Ding R. and Sheng, J. (2013). [Recursive Least-Squares Estimation for Hammerstein Nonlinear Systems with Nonuniform Sampling](https://doi.org/10.1155/2013/240929). *Mathematical Problems in Engineering*, vol. 2013, Article ID 240929, 8 pages, 2013. doi:10.1155/2013/240929. (Impact Factor: 1.383, Google Scholar Cited times:2 )
7. [MCS12] Han, L., Wu, F., Sheng, J. and Ding, F. (2012). [Two recursive least squares parameter estimation algorithms for multirate multiple-input systems by using the auxiliary model](https://doi.org/10.1155/2012/240929). *Mathematics and Computers in Simulation*, Vol. 82, Issue 5, pp. 777-789. (Impact Factor: 0.836; Google Scholar Cited times: 6)
8. [MCM11] Bao, B., Xu, Y., Sheng, J. and Ding, R. (2011). [Least squares based iterative parameter estimation algorithm for multivariable controlled ARMA system modelling with finite measurement data](https://doi.org/10.1155/2011/240929). *Mathematical and Computer Modeling*, Vol. 53, pp. 1664-1669. (Impact Factor: 1.420, Google Scholar Cited times: 41)
9. [CMA10] Liu, Y., Sheng, J. and Ding, R. (2010). [Convergence of stochastic gradient estimation algorithm for multivariable ARX-like systems](https://doi.org/10.1155/2010/240929). *Computers and Mathematics with Applications*, Vol. 59, pp. 2615-2627. (Impact factor: 2.069; Google Scholar Cited times: 132)
10. [MCM09] Han, L., Sheng, J., Ding, F. and Shi, Y. (2009). [Auxiliary model identification method for multirate multi-input systems based on least squares](https://doi.org/10.1155/2009/240929). *Mathematical and Computer Modeling*, Vol. 50, Issue 7-8, pp. 1100-1106. (Impact factor: 1.420; Google Scholar Cited times: 37)
11. [IJSS08] Zhang, Y., Chen, Y., Sheng, J. and Hesketh, T. (2008). Fault detection and diagnosis of networked control system. *International Journal of Systems Science*, Vol. 39, Issue 10, pp. 1017-1024. (2012 Impact Factor: 1.305)
12. [IECR08] Zhang, Y., Sheng, J. and Hesketh, T. (2008). Fault Diagnosis and Isolation of Multi-Input-Multi-Output Networked Control Systems. *Industrial & Engineering Chemistry Research*, Vol. 47, Issue 8, pp 2636–2642. (2012 Impact Factor: 2.206)
13. [JPC05] Rossiter, J. A., Sheng, J., Chen, T. and Shah, S. L. (2005). Interpretations of and options in dual-rate predictive control. *Journal of Process Control*, Vol. 15, pp. 135-148. (Impact factor: 1.805, Google Scholar Cited times:19 )
14. [TRCS05] Sheng, J., Chen, T. and Shah, S. L. (2005). Optimal filtering for multirate systems. *IEEE Transactions on Circuits and Systems, Part II: Analog and Digital Signal Processing*, Vol. 52, pp. 228-232. (Impact factor: 1.327, Google Scholar Cited times: 60)
15. [JPC02] Sheng, J., Chen, T. and Shah, S. L. (2002). Generalized predictive control for non-uniformly sampled systems. *Journal of Process Control*, Vol. 12, pp. 875-885. (Impact factor: 1.805, Google Scholar Cited times: 106)
16. [DCDIS01] Sheng, J., Chen, T. and Shah, S.L. (2001), Multirate generalized predictive control for sampled-data systems. *Dynamics of Continuous, Discrete and Impulsive Systems, Series B: Applications and Algorithms*, Vol. 8, pp. 485-499.

17. [JNUAA98] Zhu, E., Sheng, J., Wang, W. and Guo, S. (1998). A non-linear compensation method to restrain PIO on fly-by-wire flight control system. *Journal of Nanjing University of Aeronautics and Astronautics*, Vol. 30, No. 4, pp. 400-404.
18. [JNUAA97] Wang, W., Guo, S. and Sheng, J. (1997). Research on the propulsive-only flight control system. *Journal of Nanjing University of Aeronautics and Astronautics*, Vol. 29, No. 1, pp. 7-12.

### Conference Papers

1. [SHEWC15] Barrett, C. M., Landowski, R., Sheng J., and Baiocchi, O.R. (2015 July) *Drone-based Wireless Network Sensors for Forest Fire Detection*, Proc. of XV Safety, Health and Environment World Congress 2015, Porto, Portugal.
2. [IEEEMSN14] Li, Y., Ding, L., Sheng, J., Liu, C., and Teredesai, A. M. (2014 December). *An Effective Message Forwarding Algorithm for Ad-hoc Network with Cyclic Probabilistic Influences*. In Proc. of the 10th International Conference on Mobile Ad-hoc and Sensor Networks, Maui, USA. DOI: [10.1109/MSN.2014.31](https://doi.org/10.1109/MSN.2014.31)
3. [ICARCV14] Kong, L.K., Sheng, J. and Teredesai, A. M. (2014 December). *Basic Micro-Aerial Vehicle (MAV) Object Avoidance using Computer Vision*. In Proc. of the 13th International Conference on Control, Automation, Robotics and Vision, Marina Bay Sands, Singapore. DOI: [10.1109/ICARCV.2014.7064451](https://doi.org/10.1109/ICARCV.2014.7064451)
4. [ACCV14] Zhang, J., Sheng, J. and Teredesai, A. M. (2014 November) *Supervised nearest neighbor searching for visual tracking*, POSTER presentation at the 12th Asian Conference on Computer Vision Singapore. To appear in one of the four volumes of Springer's Lecture Notes on Computer Science (LNCS) (acceptance rate 27%).
5. [CA13] Sheng, J., Zhang, L. and Xu, S. (2013 August). *Model Predictive Control for Uncertain Stochastic Systems*. In Proc. of the 15th IASTED International Conference on Control and Applications (CA'2013), Honolulu, USA. (CD-ID805) Abstract retrieved from <http://www.actapress.com/Abstract.aspx?paperId=455731>
6. [ICSP12] Sheng, J., Wang, D., Baiocchi, O. and Wear, L. (2012 October). *Multi-innovation Least Squares Parameter Estimation for Multi-rate SDR Receiver Systems*. In Proc. Of the IEEE 11th International Conference on Signal Processing (ICSP'12), Beijing, China. (CD-ROM) (40% acceptance rate)
7. [ASEE12] Wear, L., Baiocchi, O., Alden, M., Gutmann, R. and Sheng, J. (2012 June). *Getting ABET Accreditation Right the First Time*. In Proc. of the 119th ASEE Annual Conference & Exposition, San Antonio, TX. Paper retrieved from <http://www.asee.org/public/conferences/8/papers/3601/view>
8. [RA11] Morrah, J., Ra, H.K., Sheng, J. and Chung, S. (2011 June). *A JAUS-Compliant Test-Bed for Unmanned Vehicle Systems with Smartphone as Communication Media*. In Proc. of the 16th IASTED International Conference on Robotics and Applications (RA 2011), Vancouver, BC, Canada. (CD-ID743) Abstract retrieved from <https://www.actapress.com/Abstract.aspx?paperId=451935>
9. [NCC10] Sheng, J., Wear, L.L. and Baiocchi, O. R. (2010 June). *Computer Engineering and Systems Capstone Design Course at UW Tacoma*. In Proc. of National Capstone Conference 2010, Boulder, Colorado. Paper retrieved from [http://www.capstoneconf.org/resources/2010\\_Proceedings/Papers/index.html](http://www.capstoneconf.org/resources/2010_Proceedings/Papers/index.html)
10. [CITSA10] Ra, H.K., Chung, S. and Sheng, J. (2010 June). *Teaching the Way of Using Computers with Autonomous Robots for Junior-High Students*. In Proc. of the 7th International Conference on Cybernetics and Information Technologies, Systems and Applications (CITSA 2010), Orlando, Florida, USA. Paper retrieved from [http://www.iis.org/CDs2010/CD2010SCI/CITSA\\_2010/papersPdf/1A736FP.pdf](http://www.iis.org/CDs2010/CD2010SCI/CITSA_2010/papersPdf/1A736FP.pdf)
11. [ACC10] Zhang H., Mehr, A. S., Shi, Y. and Sheng, J. (2010 July). *New Results on Robust  $L_2 - L_\infty$  Filtering for Uncertain Linear Discrete-Time Systems*. In Proc. of 2010 American Control Conference, Baltimore, Maryland, USA, pp. 1380-1385. (62% acceptance rate)
12. [PAEE09] Wear, L.L., Baiocchi, O. R. and Sheng, J. (2009 July). *Project-Oriented Courses for Freshmen Engineers*. In Proc. of the 1<sup>st</sup> Ibero-American Symposium of Project Approaches in Engineering Education (PAEE'2009), University of Minho in Portugal, pp. 31-35.
13. [ESA09] Sheng, J. (2009 July). *Infinite Breakpoints and Breaking Using an External Trigger on the PIC18F4550*, Proc. 2009 International Conference on Embedded Systems and Applications (ESA'09), Las Vegas, USA.
14. [ACC09] Han, L., Sheng, J., Ding, F. and Shi, Y. (2009 June). *Recursive least squares identification for multirate multi-input single-output systems*. In Proc. of 2009 American Control Conference, St. Louis, Missouri, pp 5604-5609. (67% acceptance rate)

15. [ICRB07] Yang, J. and Sheng, J. (2007 December). *A Study on the Robust Stability of Multirate Systems*. In Proc. of 2007 IEEE International Conference on Robotics and Biomimetics, Sanya, China, pp. 2261-2266.
16. [ICMA06] Sheng, J., Zhang, Y. and Hesketh, T. (2006 June). *A State Observer for Networked Control Systems with Long Delays*. In Proc. of 2006 IEEE International Conference on Mechatronics and Automation, China, pp. 351-355.
17. [ICFDM06] Ye, J., Yang, J., Sheng, J., Zheng, J. and He, S. (2006). *Improved DSMC based on IP Method for Micro-scale Flow Simulations in MEMS*. In Proc. of the 7th International Conference on Frontiers of Design and Manufacturing, pp. 363-366.
18. [ACC05] Sheng, J. (2005 June). *Optimal filtering for multirate systems based on lifted models*. In Proc. of 2005 American Control Conference, Portland, USA, pp. 3459-3461.
19. [ACC04] Rossiter, J. A., Sheng, J., Chen, T. and Shah, S. L. (2004 June). *Robustness of dual-rate inferential MPC systems*. In Proc. of 2004 American Control Conference, Boston, USA, pp. 251-253.
20. [CCECE04] Sheng, J. and Spong, M. W. (2004 May). *Model predictive control for bilateral teleoperation systems with time delays*. In Proc. of 2004 IEEE Canadian Conference on Electrical and Computer Engineering, Niagara Falls, Canada, pp. 1877-1880.
21. [IAC03] Sheng, J. and Liu, P. X. (2003 December). *A Review of bilateral computer control of telemanipulators*. In Proc. of 2003 Intelligent Automation Conference, Hongkong, China, pp. 35-40.
22. [ISIC03] Liu, P. X., Meng, M. Q-H, Yang, S. X., Hu, C. and Sheng, J. (2003 October). *Internet-based remote control by using adaline neural networks*. In Proc. of 2003 IEEE International Symposium on Intelligent Control (ISIC'03), Westin Galleria Houston, Texas, USA, pp. 252-257.
23. [IROS03] Liu, P. X., Meng, M. Q-H, Hu, C. and Sheng, J. (2003 October). *A modular structure for internet mobile robots*. In Proc. of 2003 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS'03), Las Vegas, USA, pp. 1111-1116.
24. [DCDIS03E] Sheng, J., Chen, T. and Shah, S. L. (2003 May). *Estimation of time delays in multirate sampled-data systems*. In Proc. of the 3rd International DCDIS Conference on Engineering Applications and Computational Algorithms, Guelph, Ontario, Canada, pp. 23-27.
25. [DCDIS03M] Sheng, J., Chen, T. and Shah, S. L. (2003 May). *Multirate H-infinity state estimation by a product reduction algorithm*. In Proc. of the 3rd International DCDIS Conference on Engineering Applications and Computational Algorithms, Guelph, Ontario, Canada, pp. 421-425.
26. [IFAC02] Sheng, J., Chen, T. and Shah, S. L. (2002 July). *GPC for non-uniformly sampled systems based on lifted models*. In Proc. of the 15th IFAC World Congress, Barcelona, Spain, pp. 1495-1500.
27. [ACC01] Sheng, J., Chen, T. and Shah, S.L. (2001 June). *On stability robustness of dual-rate generalized predictive control systems*. In Proc. of 2001 American Control Conference, Arlington, Virginia, USA, Vol. 5, pp. 3415-3420.

#### **Papers under Submission, Review or in Preparation/Revision**

1. [IST16] Moon, C., Tao, Y., and Sheng, J. (2016 August) *A Study on Netflix Movie Recommendation System Using Incremental SVD*, submitted to the 2016 International Conference on Information Science and Technology, Guilin, China.
2. [IST16] Newman, S., Sheng, J., and Teredesai, A. M. (2016 August) *Application of SVD in analyzing practical medical dataset*, submitted to the 2016 International Conference on Information Science and Technology, Guilin, China
3. [ICSEA16] Bhav S., Sheng, J., and Teredesai, A. M. (2016 August) *Embedded Middleware for Distributed Network of Raspberry Pi Devices*, submitted to the 2016 International Conference on Software Engineering and Application, Guilin, China.
4. [JCSE16] Sheng, J., Zhang, L., and Xu, S., *Robust Model Predictive Control for Uncertain Stochastic Systems*, submitted to Journal of Control Science and Engineering.
5. [MPE16] Sheng, J., and Wang, D., *Multi-innovation Least Squares Parameter Estimation for multi-rate systems*, submitted to Mathematical Problems in Engineering.

#### **Panel, Posters, and Presentations**

1. Instructor Discussion Panel: *Engineering Education in a Digital Age*, [83rd Annual Pacific Northwest Section ASEE Conference](#), Highline Community College, March 7- 8, 2013. (invited)

- Sheng, J. (2013). [\*Hybrid Teaching of Introduction to Logic Design using Canvas\*](#), poster #6, 9th Annual UW Teaching and Learning Symposium, HUB Lyceum, April 16, University of Washington, Seattle.
- Sheng, J., Baiocchi, O. and Wear, L. (2012). [\*Continuous Improvement in CES Capstone Design Course at UW Tacoma\*](#), ASEE-PNW Section Conference, March 15-17, Portland, OR.
- Sheng, J. (2011). [\*Developing leadership and teamwork skills through the capstone design project\*](#), poster #29, 7th Annual UW Teaching and Learning Symposium, Kane Hall, April 19, University of Washington, Seattle.

## GRANTS AND AWARDS

- Corporate gift fund \$15,000 by BTS Technologies Ltd., Korea
- UWT Chancellor's Fund Summer Research Camp 2012
- UWT Chancellor's Fund Instructional Technology Fellows Institute 2012 for Course Redesign
- UWT Chancellor's Fund for Research and Scholarship 2010. Research project: Using Open Source Software to Develop a Test-bed for Unmanned Vehicle Systems with Smartphone as Communication Media
- UWT Teaching Release Research Quarter Spring 2011. Research project: Hardware Implementation of Multi-rate Model Predictive Control
- UWT Curriculum Enhancement Grants 2010, CLSR. Project: Broaden students' perspectives of engineers' social responsibility
- The Australia — China Special Fund Project, Chief Investigator (partner: Dr. Jian Yang, Zhejiang University, China). Project: Research on MEMS Reactors for Bio-separation and Its Application in Simulated Moving Beds, 2006–2007.
- Faculty Research Grant Early Career Researcher Awards, University of New South Wales, Chief Investigator. Project: Model Predictive Control of Bilateral Tele-operation with Time Delays, 2005–2006.
- Canadian NSERC Post-Doctoral Fellowship (success rate: 30%) 2003–2004
- University of Alberta Dissertation Fellowship, UofA, Canada, 2001–2002
- FS Chia Ph.D. Scholarship, University of Alberta, Canada, 1998–2002

## TEACHING EXPERIENCE AT UW TACOMA

Quarter	Courses taught or workshops facilitated	Enrollment	Eva. Score
W09	TCES481 Senior Project I	7	3.3
S09	TCES482 Senior Project II	7	3.4
	<i>CES workshop TCSS390E supporting TCES215</i>	3	4.2
	<i>CES workshop TCSS390F supporting TCES312</i>	7	4.5
	<i>Direct Reading TCSS498 (Digital Signal Processing)</i>	2	4.0
F09	TCES430 Microprocessor System Design	12	4.0
	<i>CES workshop TCSS390F supporting TCES310</i>	9	4.5
W10	TCES230 Introduction to Logic Design	23	4.1
	TCES481 Senior Project I	9	3.7
S10	TCES482 Senior Project II	9	4.6
	TCSS142 Introduction to Object-Oriented Programming	28	4.0
F10	TCES430 Microprocessor System Design	17	3.0
	TINST310 Computational Problem Solving	24	4.0
W11	TCES230 Introduction to Logic Design	22	3.6
	TCES481 Senior Project I	15	3.7
F11	TCES430 Microprocessor System Design	6	4.0
	TCES310 Linear Systems and Transforms	17	3.9
W12	TCES230 Introduction to Logic Design	24	4.0
	TCES481 Senior Project I	10	4.0
S12	TCSS 371 Machine Organization	39	3.3
	TCSS142 Introduction to Object-Oriented Programming	31	4.2

F12	TCES430 Microprocessor System Design	18	4.5
	TCES455 Devices and Controls	19	4.1
W13	TCES230 Introduction to Logic Design	30	3.6
	TCES481 Senior Project I	18	4.1
S13	TCSS 371 Machine Organization	42	3.4
F13	TCSS590 Mathematical Foundation of Comp. Science	16	4.4
	TCES430 Microprocessor System Design	27	3.2
W14	TCES230 Introduction to Logic Design	28	4.4
	TCES102 Introduction to Engineering II	7	4.3
S14	TCES490 Digital Signal Processing	12	4.1
F14	TCES455 Devices and Controls	33	3.2
	TCES310 Linear Systems and Transforms	28	4.7
W15	TCES372 Machine Organization and Architecture for Engineers	41	3.4
S15	TCES330 Digital Systems Design	40	3.7
	TCSS333 C for System Programming	28	3.4
F15	TCES455 Devices and Controls	41	4.0
	TCES310 Linear Systems and Transforms	20	4.7
W16	TCES372 Machine Organization and Architecture for Engineers	32	3.0
	TCES498 Directed Readings on Digital Signal Processing	5	N/A

## PROFESSIONAL MEMBERSHIPS

- Member of American Society for Engineering Education (ASEE)
- Member of Institute of Electrical and Electronics Engineers (IEEE)
- Member of International Institute of Informatics and Systemics (IIS)

## SERVICES

### UWT Campus Service

- Academic Policy and Curriculum Committee (AY2013-2016)
- Distinguished Teaching Award (DTA) committee (AY 2012-2013, AY 2013-2014)
- SAFC faculty ex-officio (AY 2011-2012)
- Institute Graduate committee (2011-2015)
- Institute Facility committee (2011 - 2015)
- Institute CSS Undergraduate committee (2009 - 2012)
- Institute CES committee for ABET Accreditation (2009 - 2011)
- Institute CES Undergraduate committee (2011 - 2015)
- Institute Director search committee (2010, 2011)

### Professional Services

- Reviewer for journals including Circuits, Systems, and Signal Processing, Transactions of the Institute of Measurement and Control, Journal of Process Control, Asian Journal of Control, European Journal of Control, Applied Mathematical Modelling, Digital Signal Processing, Nonlinear Dynamics, Journal of Supercomputing, Journal of Applied Mathematics, and a variety of IEEE international conferences.
- Instructor Discussion Panel: Engineering Education in a Digital Age, [83rd Annual Pacific Northwest Section ASEE Conference](#), Highline Community College, March 7- 8, 2013.
- Guest editor for the Journal of Control Science and Engineering [special issue on Advances in Methods for Control over Networks](#), 2011.
- PhD Thesis External Examiner for Zareena Kausar in Mechanical Engineering, The University of Auckland. Thesis title: Stability Augmentation of Two-Wheeled Robots on Pedestrian Terrain.

- Conference session chair of
  - Session “Control II” at the 15th IASTED International Conference on Control and Applications (CA 2013), Honolulu, USA, August 26 – 28, 2013.
  - Session “Unmanned, Multi-robot Systems and Path Planning” at the 16th IASTED International Conference on Robotics and Applications, Vancouver, BC, Canada, June 1 – 3, 2011.
  - Session “MP1-11: Networked Control System I”, IEEE International Conference on Mechatronics and Automation, China, June 25–28, 2006.
  - Session “Estimation and Filtering I”, American Control Conference, Portland, USA, June 8–10, 2005.
  - Session “Sample-Data Systems and Control” at the 3<sup>rd</sup> International DCDIS Conference on Engineering Applications and Computational Algorithms, Guelph, Ontario, Canada, May 15–18, 2003.
- Program committee member
  - [IEEE 2012 International Conf. on Mechatronics and Automation \(ICMA\)](#), Chengdu, China.
  - [IEEE 2011 International Conf. on Mechatronics and Automation \(ICMA\)](#), Beijing, China.
  - [The 8th World Congress on Intelligent Control and Automation \(WCICA\)](#), Jinan, Shandong, China, July 7-9, 2010.
  - [IEEE 2009 International Conf. on Automation and Logistics \(ICAL\)](#), Shenyang, China.
  - [IEEE 2006 International Conf. on Mechatronics and Automation \(ICMA\)](#), Luoyang, China.
  - [IEEE 2005 International Conf. on Mechatronics and Automation \(ICMA\)](#), Niagara Falls, ON, Canada.
- [International Program Committee member](#), IEEE Conference on Control Applications, Toronto, Canada, August 28–31, 2005.