

## Vita of Zhong-Ping Jiang

Department of Electrical and Computer Engineering  
Polytechnic School of Engineering  
New York University  
Five Metrotech Center, Brooklyn, NY 11201

E-mail: [zjiang@nyu.edu](mailto:zjiang@nyu.edu)  
Web: <http://eeweb.poly.edu/faculty/jiang>

### Education

- 09/93** Ph.D. in Automatic Control and Mathematics, École des Mines de Paris, France.  
**09/89** Master's degree in Statistics, University of Paris XI, Paris, France.  
**06/88** B.Sc. in Mathematics, University of Wuhan, China.

### Employment History

- 2007 - now** *Professor*, Department of Electrical & Computer Engineering, NYU Polytechnic School of Engineering, New York.  
**2002 - 2007** Associate Professor, Department of Electrical & Computer Engineering, Polytechnic University, Brooklyn, New York.  
**1999 - 2002** Assistant Professor, Department of Electrical & Computer Engineering, Polytechnic University, Brooklyn, New York.  
**07/98 - 12/98** Visiting Researcher in the Department of Electrical Engineering at the University of California, Riverside.  
**06/96 - 07/98** Research Fellow in the Department of Electrical Engineering, Sydney University, Australia.  
**05/94 - 05/96** Research Fellow in the Department of Systems Engineering, Australian National University.  
**10/93 - 05/94** Post-doctoral Fellow in the National Institute of Research in Computer Sciences and Control (INRIA), Sophia-Antipolis, France.

### Books

1. I. Karafyllis and Z. P. Jiang, *Stability and Stabilization of Nonlinear Systems*. London: Springer-Verlag, June 2011.
2. T. Liu, Z. P. Jiang and D. J. Hill, *Nonlinear Control of Dynamic Networks*. CRC Press, Taylor & Francis, April 2014.

## Book chapters

1. L. Praly, G. Bastin, J.-B. Pomet and Z.-P. Jiang, “Adaptive stabilization of nonlinear systems,” in: *Foundations of Adaptive Control*, pp. 347–433, P.V. Kokotović (Editor), Berlin: Springer-Verlag, 1991. (87 pages)
- 2.\* Z. P. Jiang and D.J. Hill, “Adaptive nonlinear control: passivation and small gain techniques,” in: *Adaptive Control Systems*, pp. 119–158, G. Feng and R. Lozano (Editors), Oxford: Butterworth-Heinemann, 1999.
- 3.\* Z. P. Jiang and H. Nijmeijer, “Observer-controller design for global tracking of non-holonomic systems,” in: *New Trends in Nonlinear Observer Design*, pp. 205–228, H. Nijmeijer and T. I. Fossen (Editors), Springer-Verlag, June 1999.
- 4.\* Z. P. Jiang, “Control of Interconnected Nonlinear Systems: a Small Gain Viewpoint.” In: *Optimal Control, Stabilization, and Nonsmooth Analysis*, M. de Queiroz, M. Malisoff, and P. Wolenski (Editors), Lecture Notes in Control and Information Sciences, vol. 301, pp. 183–195, Springer-Verlag, Heidelberg, 2004.
5. Y. G. Hong and Z. P. Jiang, Finite-time control and input-to-state stability, In: *Nonlinear Control Systems with Discontinuity: Theory and Practice*, T. Shen, Y. Sun, Y. Yao, and Y. Mutton (eds.), Tsinghua University Press, 2007.
6. Z. P. Jiang, “Controlling underactuated mechanical systems: A review and open problems,” In: *Advances in the Theory of Control, Signals and Systems with Physical Modelling*, J. Levine and P. Mullhaupt (eds.), LNCIS, Springer-Verlag, Oct. 2010. ISBN: 978-3-642-16134-6
7. Y. Jiang and Z. P. Jiang, “Robust Adaptive Dynamic Programming,” In: *Reinforcement Learning and Approximate Dynamic Programming for Feedback Control*, F. Lewis and D. Liu (eds.), pp. 281–302, John Wiley & Sons, Dec. 2012.
8. T. Liu and Z. P. Jiang, “Event-triggered control of nonlinear systems: A small-gain approach,” In: *Systems Theory: Perspectives, Applications and Developments*, Francisco Miranda (Editor), Nova Science Publishers, 2014.
9. Z. P. Jiang, Y. Lin and Y. Wang, “Input-to-State Stability of Switched Systems with Time Delays,” In: *Recent Results on Nonlinear Delay Control Systems*, M. Malisoff et al. (Editors), Advances in Dynamics and Delays, Springer, 2015.
10. H. Ito, P. Pepe and Z. P. Jiang, “Decentralized robustification of interconnected time-delay systems based on integral input-to-state stability,” In: *Advances in Delays and Dynamics*, T. Vyhldal, J.-F. Lafay and R. Sipahi (editors), Springer, 2015.

## Guest Editorship

- Guest Editor, Special Issue “New Trends in Nonlinear Control”, *Systems & Control Letters*, vol. 55, 2006. (with I. Mareels)

- Guest Editor, Special Issue on “Robust Stability and Control of Large-Scale Nonlinear Systems”, *Mathematics of Control, Signals and Systems*, Vol. 24, 2012. (with S. Dashkovskiy and B. S. Ruffer)
- Guest Editor, Special Issue on “Learning and Control in Cooperative Multi-agent Systems”, *Journal of Control Theory and Applications* (English Series), 2015. (with F. Lewis and T. Liu)

#### **News articles reporting on our research work in nonlinear control:**

1. “Backstepping regulates forward-moving robot,” *Advanced Manufacturing Technology*, Vol. 19, No. 1, p. 5, Jan. 1998.
2. Article by Editor H. Goldstein in the January 12, 2000 issue of *INSIDE R&D ALERT*.
3. Computational Intelligence Magazine (CIS) Publication Spotlight in Volume 9, Number 3, August 2014.

### **Professional Activities and Services**

#### **a. Editorial work**

- Associate Editor of the Book *Series in Systems and Control*, Science Press and Chinese Automation Association, 2013–2017.
- Co-Deputy Editor-in-Chief, *Journal of Control and Decision*, (published quarterly by Taylor & Francis Group of UK).
- Associate Editor of *Mathematical Problems in Engineering*, 2014–
- Associate Editor of *Science in China: Information Sciences*, (English Series), 2013–
- Member of the Editorial Board for the *TCCT Newsletters* of Chinese Association of Automation (CAA), 2012–
- Associate Editor for the CAA TCCT publication *All About Systems and Control*, 2014–
- Associate Editor of *International Journal of Systems, Control and Communications*, 2012–
- Associate Editor of *ACTA AUTOMATICA SINICA*, (English Series), 2012–
- Associate Editor of *Mathematics of Control, Signals and Systems*, 2011–
- Associate Editor of *Journal of Systems Science and Complexity*, 2011–2012; 2014–
- Associate Editor of *Journal of Nonlinear Systems and Applications*, 2010–
- Associate Editor of *Journal of Control Theory and Applications* (English Series), 2008–present

- Member of the Editorial Board for the *International Journal of Intelligent Computing and Cybernetics (IJICC)*, 2008–present
- Member of the Editorial Board for the *RECENT PATENTS ON ELECTRICAL ENGINEERING* ([www.benthamscience.org/eeng](http://www.benthamscience.org/eeng)), Bentham Science Publishers. 2008–present
- Associate Editor of *European Journal of Control*, since April 2005.
- Associate Editor of *IEEE Transactions on Automatic Control* (2003–2005).
- Associate Editor of *Systems & Control Letters*, since Dec. 1998.
- Editor of the *Int. Journal of Robust and Nonlinear Control*, since 2000.
- Associate Editor on the IEEE Control System Society’s Conference Editorial Board (2000–2002; 2009–2010).
- Member of the Technical Committee on “Nonlinear Control Systems”, *International Federation of Automatic Control (IFAC)*, 2008 - now.

#### **b. Conference organization**

- Program chairs and IPC members for over 30 international conferences in Systems and Control.

#### **c. Reviewer activities**

- Reviewer for the U.S. NSF, Australian Research Council, Science and Engineering Research Canada (NSERC), the Hong Kong Research Grant Council, Israel Science Foundation, and IEEE Publications.
- Panelist for U.S. National Science Foundation.
- Nominated as *Outstanding Reviewer* for 1999, by *Automatica*.

### **Prizes, Awards and Honors**

- Fellow of the International Federation of Automatic Control (IFAC) (2013)
- Fellow of the IEEE (2008).
- Won the Shimemura Young Author Prize (with my student Yu Jiang as the lead author) at the 2013 Asian Control Conference in Istanbul, Turkey.
- Changjiang Chair Professor, Beijing University, China. (2009 - 2012)
- Won the Guan Zhao-Zhi Best Paper Award at the *2011 Chinese Control Conference* for a joint paper with T. Liu and D. J. Hill.
- Best Theoretic Paper Award of the 2008 World Congress in Intelligent Control and Automation, Chongqing, China, June 2008.

- Distinguished Overseas Chinese Researcher Award from the National Natural Science Foundation of China (2007–2009).
- Member of the Technical Committee on Control Theory, for Chinese Association of Automation.
- Guest Professor for several leading universities in China.
- JSPS Invitation Fellowship from the Japan Society for the Promotion of Science (2005).
- Othmer Junior Faculty Fellow at the Othmer Institute for Interdisciplinary Studies, Polytechnic University (2002–2004).
- NSF CAREER Award from the National Science Foundation (2001–2006).
- QEII (Queen Elizabeth II) Research Fellowship Award from the Australian Research Council (ARC, 1998).