

**Name: Weibo Gong**

Department of Electrical and Computer Engineering  
University of Massachusetts  
Amherst, MA01003

**Education**

- M.S., Control Theory, University of Science and Technology of China, 1981.
- M.S., Engineering, Harvard University, 1985
- Ph.D., Engineering Sciences, Harvard University, 1987

**Academic Experience**

- Assistant Professor, Department of Electrical and Computer Engineering, University of Massachusetts, Amherst, 1987-1993.
- Associate Professor, Department of Electrical and Computer Engineering, University of Massachusetts, Amherst, 1993-1997.
- Professor, Department of Electrical and Computer Engineering, University of Massachusetts, Amherst, 1997 to 2015.
- University Distinguished Professor, Department of Electrical and Computer Engineering, University of Massachusetts, 2015-present.
- Adjunct Professor, Department of Computer Sciences, University of Massachusetts, Amherst, 2001 to present.

**Non-Academic Experience:** none.

**Certifications or professional registrations:** none

**Current membership in professional organizations**

- Life Fellow, Institute of Electrical and Electronic Engineers

**Awards and Honors**

- IEEE Control Systems Society George Axelby Outstanding Paper Award, 1997
- IEEE Fellow, Elected 1998..
- Engineering College Senior Faculty Award, May 2002
- Best Paper Award, GridNet Conference, 2004.
- Chancellor's Medal, University of Massachusetts, Amherst, 2009.
- Distinguished Faculty Lecture, University of Massachusetts, Amherst, 2009.
- Best paper award runner-up of 2010 INFOCOM from 1535 submissions, 2010.
- Semi-Plenary Speaker, 50th IEEE Conference on Decision and Control (CDC), 2011.
- Plenary Speaker, 31st Chinese Control Conference (CCC'12), July 25-27, 2012.
- Keynote Speaker, 8th EUROSIM, Cardiff, United Kingdom, September 10-12, 2013.

- Named Distinguished University Professor, University of Massachusetts, September 2015.

### **Service Activities**

- Associate Editor, *Journal of Optimization Theory and Applications*, 1995-;
- Associate Editor, *IEEE Transactions on Automatic Control* (1993-1997);
- Associate Editor, *IEEE Transactions on Robotics and Automation* (1994-1996);
- Associate Editor at Large, *IEEE Transactions on Automatic Control* (2009);
- Organizer, 1996 NSF-ARO workshop on Systems and Control Issues in Communication Networks, August 9-10, Airlie, Virginia.
- Organizer, 2001 NSF-ARO-AFOSR workshop on Optimization and Control of Complex Systems, Cambridge, Massachusetts.
- Invited Guest Editor, Special Issue on Systems and Control Methods in Communication Networks, for *IEEE Transactions on Automatic Control*, June 2002.
- Program Committee Chair, IEEE Conference on Decision and Control, 2004.
- Chairman, IEEE Control Systems Society Network and Communication Committee (1996-1999).
- Program Committee members for various IEEE/ACM Conferences.
- Members of review panels for government funding agencies.
- Liaison Member of IEEE-USA Committee on Communication Policy for IEEE Control Systems Society, 2003-.

### **Significant publications and presentations from the last five years**

1. *Weibo Gong: Invariants in Object Deformation and Concept Abstraction. CDC 2018: 4821-4826*
2. *Weibo Gong, Patrick A. Kelly, Christopher V. Hollot: Visual signal representation for fast and robust object recognition. ECC 2019: 3231-3236*
3. *Weibo Gong: On concept abstraction algorithms. ECC 2018: 1-6*
4. *Weibo Gong, Bo Jiang: Relation generation and fast similarity testing for unsupervised learning. CDC 2017: 4231-4236*
5. *Jieqi Kang, Shan Lu, Weibo Gong, Patrick A. Kelly: Image feature extraction based on spectral graph information. ICIP 2016: 46-50*

### **Recent Professional Development Activities**

Students are well placed in leading high tech companies and as faculty members in Columbia University, New York University, Central Florida University, University of Puerto Rico, and Hunan University of China.