

## CURRICULUM VITAE

### Jingang Yi

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#### EDUCATION

<b>Ph.D.</b>	<b>Mechanical Engineering, University of California at Berkeley</b>	<i>May 2002</i>
<b>M.A.</b>	<b>Mathematics, University of California at Berkeley</b>	<i>December 2001</i>
<b>M.Eng.</b>	<b>Precision Instruments and Mechanology, Tsinghua University (China)</b>	<i>June 1996</i>
<b>B.S.</b>	<b>Electrical Engineering, Zhejiang University (China)</b>	<i>June 1993</i>

#### RESEARCH INTERESTS

- Intelligent and autonomous systems
  - ▷ autonomous vehicles/robots
  - ▷ vision-based navigation and control
  - ▷ cooperative and formation control
  - ▷ intelligent sensing systems for mechanical and civil systems
- Dynamic systems and control systems
  - ▷ nonlinear, robust, and adaptive controls
  - ▷ robotics and mechatronics
  - ▷ complex dynamic system modeling and simulation
  - ▷ intelligent transportation systems
- Micro/nano-manufacturing systems
  - ▷ sensing technology for manufacturing systems
  - ▷ intelligent manufacturing systems and manufacturing automation
  - ▷ process modeling and advanced process control (APC) for semiconductor manufacturing systems
  - ▷ planning and scheduling of semiconductor manufacturing processes and operations

#### HONORS / AWARDS

- Finalist, Spansion Best Conference Paper Award, 2007 IEEE International Conference on Automation Science and Engineering
- Kayamori Best Paper Award, 2005 IEEE International Conference on Robotics and Automation
- 2002, 2005 American Control Conference best paper in session award
- University of California Fellowship, 1997
- Guanghua Fellowship, Tsinghua University, 1995
- Excellent students fellowship, Zhejiang University, 1989-1993

#### TEACHING EXPERIENCE

- **Instructor** *Spring 2007 – present*  
*Department of Mechanical Engineering, San Diego State University.*

- ▷ **ME 330:** Mechatronics (*Spring 2007, Spring 2008*)
- ▷ **ME 530:** Automatic control systems (*Fall 2007*)
- ▷ **ME 621:** Mechanical vibrations (*Spring 2008*)
- ▷ **ME 632:** Advanced topics in automatic control (*Fall 2007*)
- **Instructor** *Spring 2005 – Fall 2006*  
*Department of Mechanical Engineering, Texas A&M University.*
  - ▷ **ENGR 211:** Conservation principles for engineering mechanics (*Fall 2005*)
  - ▷ **ENGR 221:** Introduction to engineering mechanics (*Fall 2005*)
  - ▷ **MEEN 221/289:** Statics & dynamics (*Spring 2006, Summer 2006*)
  - ▷ **MEEN 363:** Dynamics and vibrations (*Spring 2006*)
  - ▷ **MEEN 364:** Dynamic systems and controls (*Spring 2005*)
  - ▷ **MEEN 404:** Engineering laboratory (*Spring 2006*)
  - ▷ **MEEN 431:** Advanced system dynamics and controls (*Spring 2005, Fall 2005, Fall 2006*)
  - ▷ **MEEN 651:** Control system design (*Fall 2006*)
- **Instructor** *Spring 2002*  
*Department of Mechanical Engineering, University of California at Berkeley.*
  - ▷ **ME 107B:** Mechanical engineering laboratory.
- **Teaching assistant** *Spring 2001 & Fall 2001*  
*Department of Mechanical Engineering, University of California at Berkeley.*
  - ▷ **ME 134:** Automatic control system.
- **Teaching assistant** *Fall 2000*  
*Department of Mathematics, University of California at Berkeley.*
  - ▷ **MATH 1A:** Calculus.

## RESEARCH EXPERIENCE

- **Assistant professor** *January 2007 – present*  
*Department of Mechanical Engineering, San Diego State University.*
- **Visiting assistant professor** *January 2005 – December 2006*  
*Department of Mechanical Engineering, Texas A&M University.*
- **Systems engineer** *May 2002 – January 2005*  
*CMP/Cleaning Technology and New Product Development Divisions, Lam Research Corporation.*
- **Graduate research assistant** *September 1996 – May 2002*  
*Department of Mechanical Engineering, University of California at Berkeley and California PATH.*
- **Graduate research assistant** *September 1993 – July 1996*  
*Sensors and Instrumentation Laboratory, Department of Precision Instruments, Tsinghua University.*
- **Engineering intern** *June – August 1994*  
*Research and Development Center, Tangshan Qingyuan Environmental Machinery Inc., Tianjin, China.*
- **Undergraduate research assistant** *September 1992 – June 1993*  
*Institute of Electrical Machines and Drives, Department of Electrical Engineering, Zhejiang University.*

## PUBLICATIONS

- **Chapters in books**
  - B1. C. Canudas de Wit, P. Tsiotras, X. Claeys, J. Yi and R. Horowitz, (2003). Tire/road friction modeling, estimation and optimal braking control. In *Nonlinear and Hybrid Systems for Automotive Control*, R. Johansson and A. Rantzer (Eds.), Springer-Varleg, London.
- **Journal papers that have appeared or been accepted**

- J15. J. Yi (2008). A Piezo-sensor based "smart tire" system for mobile robots and vehicles. *IEEE/ASME Trans. on Mechatronics*, vol. 13, no. 1.
- J14. J. Yi, and H. Liang, (2008). A PVDF-based deformation and motion sensor: Modeling and experiments. *IEEE Sensors Journal*, in press.
- J13. J. Yi, S. Ding and D. Song, M. Zhang (2008). Steady-state throughput and scheduling analysis of multi-cluster tools: a decomposition approach. *IEEE Trans. on Automation Science and Engineering*, vol. 5, no. 1.
- J12. D. Song, H.N. Lee, J. Yi, and A. Levandowski (2007). Vision-based motion planning for an autonomous motorcycle on ill-structured roads. *Autonomous Robots*. vol. 23, no. 3, pp 197-212.
- J11. Y. Song, M. Zhang, J. Yi, L. Zhang, and L. Zheng (2007). Bottleneck station scheduling in semiconductor assembly manufacturing using ant colony optimization. *IEEE Trans. on Automation Science and Engineering*, vol. 4, no. 4, pp 569-578.
- J10. S. Ding, J. Yi and M. Zhang, (2006). Scheduling multi-cluster tools: an integrated event graph and network model approach. *IEEE Trans. on Semiconductor Manufacturing*, vol. 19, no. 3, pp 339-351.
- J9. J. Yi and R. Horowitz, (2006). Macroscopic traffic flow propagation stability for adaptive cruise controlled vehicles. *Transportation Research, Part C*, vol. 14, no. 2, pp 71-85.
- J8. J. Yi, (2005). On the wafer/pad friction for chemical-mechanical planarization (CMP) processes, Part I: modeling and analysis. *IEEE Trans. on Semiconductor Manufacturing*, vol. 18, no. 3, pp 359-370.
- J7. J. Yi, (2005). On the wafer/pad friction for chemical-mechanical planarization (CMP) processes, Part II: experiments and applications. *IEEE Trans. on Semiconductor Manufacturing*, vol. 18, no. 3, pp 371-383.
- J6. J. Yi and C. Xu, (2005). Broad-band optical end-point detection for linear chemical-mechanical planarization (CMP) processes using an image matching technique. *Journal Mechatronics*, vol. 15, no. 3, pp 271-290.
- J5. L. Alvarez, J. Yi, R. Horowitz and L. Olmos, (2005). Adaptive emergency braking control with observer-based dynamic tire/road friction model and underestimation of friction coefficient. *ASME Journal of Dynamic Systems, Measurement, and Control*, vol. 127, no. 1, pp 22-32.
- J4. J. Yi, Y. Sheng and C. Xu, (2003). Neural network based uniformity profile control of linear chemical-mechanical planarization (CMP). *IEEE Trans. on Semiconductor Manufacturing*, vol. 16, no. 4, pp 609-620.
- J3. J. Yi, H. Lin, L. Alvarez and R. Horowitz, (2003). Stability of macroscopic traffic flow modeling through wavefront expansion. *Transportation Research, Part B*, vol. 37, no. 7, pp 661-679.
- J2. J. Yi, L. Alvarez X. Claeys and R. Horowitz, (2003). Tire/road friction estimation and emergency braking control using a dynamic friction model. *Vehicle System Dynamics*, vol. 39, no. 2, pp 81-97.
- J1. J. Yi, L. Alvarez and R. Horowitz, (2002). Adaptive emergency brake control with underestimation of friction coefficient. *IEEE Trans. on Control Systems Technology*, vol. 10, no. 3, pp 381-392.
- **Journal papers that are under review or in preparation**

JS2. J. Yi (2007). Friction modeling in chemical-mechanical planarization processes. Submitted to *IEEE Control Systems Magazine* (invited paper).

JS1. W.J. Chan, J. Yi, and S. Ding (2007). Optimal scheduling of multi-cluster tools with finite inter-cluster buffers and single-blade robots. Submitted to *Operations Research*.
  - **Refereed conference papers that have appeared or been accepted**

C34. Y. Xu, D. Song, and J. Yi, (2007). An approximation algorithm for the least overlapping  $p$ -frame problem with non-partial coverage for networked robotic cameras. To be presented at *2008 IEEE International Conference on Robotics and Automation*.

C33. S. Shahruz and J. Yi (2007). Design of Disturbance Observers for Multi-Input Multi-Output Systems. In *Proceedings of 2007 ASME International Mechanical Engineering Congress & Exposition, IMECE2007-43117*, Seattle, WA.

C32. S. Shahruz and J. Yi (2007). Suppression of Vibration Localization in Non-Axisymmetric Periodic Structures. In *Proceedings of 2007 ASME International Mechanical Engineering Congress & Exposition, IMECE2007-43118*, Seattle, WA.

C31. S. Shahruz and J. Yi (2007). Efficient and Robust Synchronization of Twin-Gyro Systems. In *Proceedings of 2007 ASME International Mechanical Engineering Congress & Exposition, IMECE2007-43119*, Seattle, WA.

C30. S. Shahruz and J. Yi (2007). Performance of Mechanical Band-Pass Filters Used in Energy Scavenging in the Presence of Fabrication Errors and Coupling. In *Proceedings of 2007 ASME International Mechanical*

- Engineering Congress & Exposition, IMECE2007-43123, Seattle, WA.*
- C29. W.J. Chan, J. Yi, and S. Ding (2007). On the Optimality of One-Unit Cycle Scheduling of Multi-Cluster Tools with Single-Blade Robots. In *Proceedings of 2007 IEEE International Conference on Automation Science and Engineering*. Scottsdale, AZ, pp 392-397. (**Spansion Best Conference Paper Award Finalist.**)
- C28. J. Yi, M. Zhang, S. Ding, and P. van der Meulen (2007). Throughput Analysis of Linear Cluster Tools. In *Proceedings of 2007 IEEE International Conference on Automation Science and Engineering*. Scottsdale, AZ, pp 1063-1068.
- C27. J. Yi, J. Zhang, D. Song, and S. Jayasuriya (2007). IMU-based localization and slip estimation for skid-steered mobile robots. In *Proceedings of 2007 IEEE/RSJ International Conference on Intelligent Robots and Systems*, San Diego, CA, pp 2845-2850.
- C26. D. Song, J. Yi, and Z. Goodwin (2007). Localization of unknown networked radio sources using a mobile robot with a directional antenna. In *Proceedings of the American Control Conference*. New York, NY, pp 5952-5957.
- C25. J. Yi, D. Song, J. Zhang, and Z. Goodwin (2007). Adaptive trajectory tracking control of skid-steered mobile robots. In *Proceedings of 2007 IEEE International Conference on Robotics and Automation*, Rome, Italy, pp 2605-2610.
- C24. J. Yi, S. Ding, D. Song, and M. Zhang (2007). Multi-robot scheduling in cluster tools with buffer/process modules. In *Proceedings of 2007 IEEE International Conference on Robotics and Automation*, Rome, Italy, pp 985-990.
- C23. S. Ding, J. Yi, M. Zhang, and R. Akhavan-Tabatabaei (2006). Performance evaluation and schedule optimization of multi-cluster tools with stochastic process times. In *Proceedings of 2006 IEEE International Conference on Automation Science and Engineering*, Shanghai, China, pp 112-117.
- C22. D. Song, H.-L. Lee, J. Yi, and A. Levandowski (2006).  $V^2$ -space: vision-based navigation for an autonomous motorcycle on ill-structured road. In *Proceedings of 2006 IEEE/RSJ International Conference on Intelligent Robots and Systems*, Beijing, China, pp 3279-3286.
- C21. J. Yi, D. Song, A. Levandowski, and S. Jayasuriya (2006). Trajectory tracking and balance stabilization control of autonomous motorcycles. In *Proceedings of 2006 IEEE International Conference on Robotics and Automation*, Orlando, FL, pp 2583-2589.
- C20. J. Yi, W. Sang and E. Zhao (2005). A run-to-run film thickness control for chemical-mechanical planarization (CMP) processes. In *Proceedings of the American Control Conference*, Portland, OR, pp 4231-4236.
- C19. J. Yi, S. Ding and D. Song (2005). Steady-state throughput and scheduling analysis of multi-cluster tools for semiconductor manufacturing: a decomposition approach. In *Proceedings of 2005 IEEE International Conference on Robotics and Automation*, Barcelona, Spain, pp 293-299. (**Kayamori Best Paper Award.**)
- C18. J. Yi and C. Xu, (2004). Broad-band optical end-point detection for linear chemical-mechanical planarization (CMP) processes using an image matching technique. In *Proceedings of the 2004 ASME International Mechanical Engineering Congress & Exposition*, Vol. II, Anaheim, CA.
- C17. S. Ding and J. Yi, (2004). An event-graph based simulation and analysis of multi-cluster tools. In *Proceedings of the 2004 Winter Simulation Conference*, Washington DC, pp 1915-1924.
- C16. J. Yi, (2004). On the wafer/pad friction for linear chemical-mechanical planarization: modeling, analysis and experiments. In *Proceedings of the American Control Conference*, Boston, MA, pp 4873-4878.
- C15. J. Yi, Y. Sheng and S. Xu, (2003). Neural network based uniformity profile control of linear chemical-mechanical planarization (CMP). In *Proceedings of the 42nd IEEE Conference on Decision and Control*, Maui, HI, pp 5955-5960.
- C14. J. Yi and R. Horowitz, (2002). Macroscopic traffic flow stability for adaptive cruise controlled (ACC) vehicles. In *Proceedings of the 41st IEEE Conference on Decision and Control*, Las Vegas, NV, pp 893-899.
- C13. J. Yi, H. Lin, L. Alvarez and R. Horowitz, (2002). Stability of macroscopic traffic flow modeling through wavefront expansion. In *Proceedings of the American Control Conference*, Anchorage, AK, pp 1484-1490.
- C12. L. Alvarez, J. Yi, and R. Horowitz, (2002). Adaptive emergency braking control with observer-based dynamic tire/road friction model and underestimation of friction coefficient. In *Proceedings of the 15th IFAC World Congress on Automatic Control*, Barcelona, Spain.
- C11. J. Yi, L. Alvarez, X. Claeys, R. Horowitz and C. Canudas de Wit, (2001). Emergency braking control with an observer-based dynamic tire/road friction model and wheel angular velocity information. In *Proceedings of the American Control Conference*, Arlington, VA, pp 19-24.

- C10. X. Claeys, J. Yi, L. Alvarez, R. Horowitz, C. Canudas de Wit, and L. Richard (2001). Tire friction modeling under wet road conditions. In *Proceedings of the American Control Conference*, Arlington, VA, pp 1794-1799.
- C9. L. Alvarez, J. Yi and R. Horowitz, (2001). Observer based emergency braking control in automated highway systems. In *Proceedings of the American Control Conference*, Arlington, VA, pp 2093-2098.
- C8. G. Gomes, L. Muñoz, J. Yi, C. Toy, S. Cinnamon, R. Horowitz and L. Alvarez, (2001). Meso-microscale traffic simulation of an AHS control architecture. In *Proceedings of the American Control Conference*, Arlington, VA, pp 1806-1811.
- C7. X. Claeys, J. Yi, L. Alvarez, R. Horowitz and C. Canudas de Wit, (2001). A simple 3D parametric tire/road friction model for vehicle simulation and control. In *Proceedings of the 4th IEEE Conference on Intelligent Transportation Systems (ITS)*, Oakland, CA, pp 485-490.
- C6. X. Claeys, J. Yi, L. Alvarez, R. Horowitz, and C. Canudas de Wit, (2001). A new 3D dynamic tire/road friction model for vehicle control and simulation. In *Proceedings of the 2001 ASME International Mechanical Engineering Congress & Exposition*, Vol. II, New York, NY.
- C5. L. Muñoz, G. Gomes, J. Yi, C. Toy, R. Horowitz and L. Alvarez, (2001). Integrated meso-microscopic traffic simulation of automated highway systems. In *Proceedings of the 4th IEEE Conference on Intelligent Transportation Systems (ITS)*, Oakland, CA, pp 84-89.
- C4. J. Yi, L. Alvarez, R. Horowitz and C. Canudas de Wit, (2000). Adaptive emergency brake control using a dynamic friction model. In *Proceedings of the 39th IEEE Conference on Decision and Control*, Sydney, Australia, pp 456-461.
- C3. L. Alvarez, J. Yi and R. Horowitz, (2000). Emergency braking control in automated highway systems with underestimation of friction coefficient . In *Proceedings of the American Control Conference*, Chicago, IL, pp 574-579.
- C2. J. Yi, L. Alvarez, A. Howell, R. Horowitz, K. Hedrick, (2000). A fault management system for longitudinal vehicle control in AHS. In *Proceedings of the American Control Conference*, Chicago, IL, pp 1514-1518.
- C1. L. Alvarez and J. Yi, (1999). Adaptive emergency braking control in automated highway systems. In *Proceedings of the 38th IEEE Conference on Decision and Control*, Phoenix, AZ, pp 3740-3745.
- **Refereed conference papers that are under review**
- CS2. J. Yi, K. Moon, and Y. Shi, (2007). Dynamic modeling of an L-shape piezo-based micro-manipulator. Submitted to *the 2008 American Control Conference*.
- CS1. H. Fang, Y. Shi, and J. Yi, (2007). Simultaneous input and state estimation with a minimum mean square error and minimum variance. Submitted to *the 2008 American Control Conference*.
- **Non-refereed conference papers**
- NC4. R. Cooper, H. Lee, J. Butler, B. Mika, D. Clayton, K. Wang, J. Yi, and H. Liang (2007). Stress-resolved and cockroach-friendly piezoelectric sensors. Submitted to *2008 SPIE Conference on Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems*, San Diego, CA.
- NC3. K. Moon, J. Yi, Y. Hong, and A. Mather (2007). Design of a PMN-PT-based monolithic nanomanipulator. In *Proceedings of 2007 SPIE International Symposium on Optomechatronic Technologies*, Lausanne, Switzerland.
- NC2. J. Yi and H.H. Liang (2007). Development of a PVDF-based rubber-tread deformation sensing system for understanding wheel/ground interactions. In *Proceedings of 2007 World Forum on Smart Materials and Smart Structures Technology*, Nanjing, China.
- NC1. K. Moon, H.H. Liang, and J. Yi (2007). Tire tread deformation sensor and energy harvester development for “Smart tire” applications. In *Proceedings of 2007 SPIE Conference on Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems*, San Diego, CA.
- **Technical reports**
- R4. J. Yi, S. Suryanarayanan, A. Howell, R. Horowitz, M. Tomizuka, and K. Hedrick, (2002). Development and implementation of a vehicle-centered fault diagnostic and management system for the extended PATH-AHS architecture: Part I. California PATH Research Report UCB-ITS-RR-2002-34 , Institute of Transportation Studies, University of California at Berkeley.
- R3. J. Yi, S. Suryanarayanan, A. Howell, R. Horowitz, M. Tomizuka, and K. Hedrick, (2002). Development and implementation of a vehicle-centered fault diagnostic and management system for the extended

PATH-AHS architecture: Part II. California PATH Research Report UCB-ITS-RR-2002-35 , Institute of Transportation Studies, University of California at Berkeley.

- R2. **J. Yi**, A. Howell, R. Horowitz, K. Hedrick and L. Alvarez, (2001). Fault detection and handling for longitudinal control of automated highway systems (AHS). California PATH Research Report UCB-ITS-PRR-2001-21, Institute of Transportation Studies, University of California at Berkeley.
- R1. **J. Yi**, L. Alvarez and R. Horowitz, (1998). An interface between fault handling and detection modules. California PATH Research Report UCB-ITS-PRR-1998-16, Institute of Transportation Studies, University of California at Berkeley.

- **Theses**

- T3. **J. Yi**, (2002). A fault tolerant longitudinal control and tire/road friction estimation system for automated highway systems (AHS). Ph.D. dissertation, Department of Mechanical Engineering, University of California at Berkeley.
- T2. **J. Yi**, (2001). Macroscopic traffic flow stability through wavefront expansion. M.A. thesis, Department of Mathematics, University of California at Berkeley.
- T1. **J. Yi**, (1996). Design improvements on condition monitoring and fault diagnostic systems for large-scale turbo generators and an automobile wheel rim testing system. M.Eng. thesis, Department of Precision Instruments and Mechanology, Tsinghua University, China.

- **Video**

- V1. A. Levandowski, A. Schultz, C. Smart, A. Krasnov, H. Chau, B. Majusiak, F. Wang, D. Song, **J. Yi**, H. Lee, and A. Parish, (2006). Ghost rider: Autonomous Motorcycle. In *Proceedings of 2006 IEEE International Conference on Robotics and Automation*, Orlando, FL.

## PATENTS

- P5. T. Taylor, **J. Yi** and P. Norton, "System and method for *in-situ* characterization and maintenance of polishing pad smoothness in chemical-mechanical polishing", US Patent 7, 153, 182, December 26, 2006.
- P4. **J. Yi** and C. Xu, "Neural network control of chemical mechanical planarization", US Patent 7, 001, 243, February 21, 2006.
- P3. **J. Yi** and C. Xu, "Methods for monitoring and controlling chemical mechanical planarization", US Patent 6, 931, 330, August 16, 2005.
- P2. **J. Yi** and C. Xu, "End-point detection with image matching in semiconductor manufacturing", US Patent 6, 930, 782, August 16, 2005.
- P1. G. Lee, C. Xu, E. Zhao and **J. Yi**, "Application of heated slurry for oxide CMP", US Patent Application 20040266192, December 30, 2004.

## PROFESSIONAL ACTIVITIES

- Member of American Society of Mechanical Engineers (ASME)
- Senior Member of Institute of Electrical and Electronic Engineers (IEEE)
- Primary member of ASME Dynamic Systems and Control Division Mechatronics Technical Committee
- Program committee member for
  - *IEEE International Conference on Automation and Logistics* (2007).
  - *IEEE International Conference on Automation Science and Engineering* (2007,2008).
  - *IEEE International Conference on Mechatronics and Automation*, (2005-2007).
- Chair/co-Chair of sessions for
  - "Micro/Nano Robots II" in *2007 IEEE/RSJ International Conference on Intelligent Robots and Systems*.
  - "Service/Home Automation 2" and "Sensors, Instrumentation, and Measurement 2" in *2007 IEEE Conference on Automation Science and Engineering*.
  - "Innovative Sensing Systems" in *2007 World Forum on Smart Materials and Smart Structures Technology*.

- “Mechanical Vibration Control II” and “System Modeling” in 2007 ASME International Mechanical Engineering Congress & Exposition.
- “Semiconductor Manufacturing” in 2006 IEEE Conference on Automation Science and Engineering.
- “Cooperative Control of Multi-Agent Systems” in 2006 American Control Conference.
- Reviewer for
  - **Journals:** *Control Engineering Practice* (2005-2007), *ASME Journal of Dynamic Systems, Measurement, and Control* (2006, 2007), *Journal of Optomechatronics* (2007), *Vehicle Systems Dynamics* (2007), *International Journal of Control* (2005), *IEEE Robotics and Automation Magazine* (2006), *OR Spectrum* (2005), *IEEE Trans. on Automation Science and Engineering* (2006, 2007), *IEEE Trans. on Semiconductor Manufacturing* (2004-2006), *Automatica* (2003), *IEEE/ASME Trans. on Mechatronics* (2000, 2006,2007), *IEEE Control Systems Magazine* (2007), *IEEE Trans. on Control Systems Technology* (2001-2003), *IEEE Trans. on Industrial Electronics* (2002), *IEEE Trans. on Intelligent Transportation Systems* (2007), *Transportation Research, Part B* (2006,2007), *International Journal of Modeling Identification and Control* (2007), *Instrumentation, Systems and Automation (ISA) Trans.* (2007), *International Journal of Vehicle Design* (2007), *Asian Journal of Control* (2007).
  - **Conferences:** *IEEE Multi-Conference on Systems and Control (MSC)* (2007), *IEEE International Conference on Robotics and Automation (ICRA)* (2005-2008), *IEEE International Conference on Automation Science and Engineering (CASE)* (2007), *IEEE International Conference on Mechatronics and Automation (ICMA)* (2005-2007), *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)* (2005-2007), *IEEE International Symposium on Industrial Electronics (ISIE)* (2007), *Seventh International Workshop on the Algorithmic Foundations of Robotics (WAFR)* (2006), *Robotics: Science and Systems (RSS)* (2006,2007), *American Control Conference (ACC)* (2000-2008), *IEEE Conference on Decision and Control (CDC)* (2002-2007), *12th IFAC Symposium on Information Control Problems in Manufacturing (INCOM)* (2006), *IEEE Conference Control Applications (CCA)* (1999,2005), *IEEE Intelligent Transportation Systems (ITS) Conference* (2001), *IFAC World Congress* (2008), and *ASME International Mechanical Engineering Congress & Exposition (IMECE)* (2002,2004,2006,2007).
  - **Books/Book Chapters:** *Springer-Verlag* (2006,2007).