

Jinwen Zhu

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Education

Ph.D. in Electrical Engineering University of North Carolina, Charlotte, NC	Aug. 2005
MS in Computer Science University of North Carolina, Charlotte, NC	Dec. 2003
BS in Electrical Engineering Southwest Jiaotong University, China	July 1983

Experience

08/2005 – present, Assistant Professor (Tenure-track)
Department of Engineering Technology, Missouri Western State University

09/1983 – 12/2000 Teaching Assistant Professor, Lecturer, Associate Professor,
Department of Electrical Engineering
Director of R & D Division, Institute of Railway Electrification and Automation
at Traction Power National Key Laboratory
Southwest Jiaotong University, Chengdu, China

08/1989 – 12/2000 Guangmang Automation Engineering Inc., Chengdu, China

Referred Journal and Conference Articles

Zhao Zhang, Jinwen Zhu, and Virendra Varma, “A Primer for Electronics Educators for Moving from Analog to Digital Communications: A Teaching Strategy”, accepted for the 14th IEMS International Conference, Cocoa Beach, Florida, March 10 – 12, 2008

David Bennett and Dr. Jinwen Zhu, “Clean Renewable Energy Technology - Solar Cells: An Undergraduate Summer Research Project”, accepted for the 3rd Annual Conference on Applied Learning in Higher Education, Missouri Western State University, Feb. 22 – 23, 2008

Jinwen Zhu and Virendra Varma, “Road to nano education in engineering technology: an area of interdisciplinary studies”, presented and published in

proceedings of 2007 ASEE Annual Conference, Honolulu, Hawaii, June 24 – 27, 2007

Jinwen Zhu and Virendra Varma, “An undergraduate summer research project: simulation of nanostructure-based devices and associated student learning”, presented and published in proceedings of 2007 ASEE Annual Conference, Honolulu, Hawaii, June 24 – 27, 2007

Tianrui Bai, Jinwen Zhu, and Virendra Varma, “Characteristics of capstone design projects at universities in US and China: an analysis”, presented and published in proceedings of 2007 ASEE Annual Conference, Honolulu, Hawaii, June 24 – 27, 2007

Jinwen Zhu, George Yang, and Virendra Varma, “Delivering manufacturing technology education through an innovative curriculum”, published in proceedings of 2007 ASEE Conference for Industry and Education Collaboration, Palm Springs, CA, Feb. 7 – 9, 2007

Jinwen Zhu, Tim LaFave Jr, and Raphael Tsu, “Classical capacitance of few electron dielectric spheres”, *Microelectronics Journal*, Vol. 37, Issue 11, pp. 1293-1296, Nov. 2006

Jinwen Zhu and Tianrui Bai, “Performance of Tahoe, Reno, and SACK TCP at different scenarios”, published in proceedings of 2006 IEEE International Conference on Communication Technology, Guilin, China, Nov. 27 – 30, 2006

Jinwen Zhu and Virendra Varma, “Charting a pathway for nanotechnology in engineering technology education”, presented and published in proceedings of 2006 IJME International Conference, Kean University, NJ, Oct. 19 – 21, 2006

David Bennett, Billy Yang, and Dr. Jinwen Zhu, “Clean Renewable Energy Technology – Solar Cell Technology”, poster presentation at Summer Research Symposium, Missouri Western State University, July, 2007

David Generaux, Tim Wang, and Dr. Jinwen Zhu, “Design and Simulation of Nanostructure Devices”, poster presentation at Summer Research Symposium, Missouri Western State University, July, 2006

Jinwen Zhu, “Nanotechnology and Its Future Impact”, invited speech, Wathena School District, KS, April 18, 2007

Funded Research Projects

“Design and Simulation of Nano-Laser Devices for Optical Communication”, Summer Research Institute, 2007

“Design and Simulation of Nanostructure Devices”, Summer Research Institute,
2006

Services

ET Department Peer Review Committee
Missouri Western State University, 2007 – present

ET Western Excellence Award Committee
Missouri Western State University, 2006 – present

ET Faculty Search Committee
Missouri Western State University, 2006 – present

Reviewer of *The Technology Interface*
Moderator and Reviewer for 2007 ASEE Annual Conference
Reviewer for 2006 IJME International Conference
Judge for 2007 MARSEF and 2006 MARSEF

Professional Affiliations

Member, *Institute of Electrical and Electronics Engineers*
Member, *American Society for Engineering Education*