

NMSU ABET resume

NAME:

Wenxin Liu

EDUCATION:

Bachelor of Science, Industrial Automation, Northeastern University, China, 1996; Master of Science, Control Theory and Application, Northeastern University, China, 2000; Ph.D., Electrical Engineering, Missouri University of Science and Technology (the formerly University of Missouri at Rolla), 2005.

ACADEMIC EXPERIENCE:

New Mexico State University, Assistant Professor, Full-time, 2009–Present

CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

Institute of Electrical and Electronics Engineers

PRINCIPAL PUBLICATIONS/PRESENTATIONS IN THE LAST FIVE YEARS:

1. Y. Xu and W. Liu, "Novel multi agent based load restoration algorithm for microgrids," IEEE Transactions on Smart Grid (in press).
2. I. Chung, W. Liu, K. Schoder, D.A Cartes, "Integration of a bi-directional DC-DC converter model into a real-time system simulation of a shipboard medium voltage DC System," Electric Power Systems Research (in press).
3. I. Chung, W. Liu, D.A. Cartes, and S. Moon, "Control Parameter Optimization for Multiple Distributed Generators in a Microgrid Using Particle Swarm Optimization," European Transactions on Electrical Power (in press).
4. W. Liu, L. Liu, I. Chung, and D.A. Cartes, "Real-time particle swarm optimization based parameter identification applied to permanent magnet synchronous machine," Applied Soft Computing, vol. 11, no. 2, 2556-2564, March 2011.
5. J. Gong, V.V. Prabhu, and W. Liu, "Simulation-based performance comparison between assembly lines and assembly cells with real-time distributed arrival time control system," International Journal of Production Research, vol. 49, no. 5, pp. 1241-1253, March 2011.
6. W. Liu, I. Chung, L. Liu, S. Leng and D.A. Cartes, "Real-time particle swarm optimization based current harmonic cancellation," Engineering Applications of Artificial Intelligence, vol. 24, no. 1, pp. 132–141, February 2011.
7. I. Chung, W. Liu, D.A. Cartes, E.G. Collins, and S. Moon, "Control methods for inverter-interfaced distributed generators in a microgrid system," IEEE Transactions on Industry Applications, vol. 46, no 3, pp. 1078-1088, May/June 2010.
8. L. Liu, W. Liu, D.A. Cartes, and Il-Yop Chung, "Slow coherency and angle modulated particle swarm optimization based islanding of large scale power systems," Advanced Engineering Informatics, vol. 23, no. 1, pp. 45-56, January 2009.
9. L. Liu, W. Liu, and D.A. Cartes, "Particle swarm optimization based parameter identification applied to permanent magnetic synchronous machine," Engineering Applications of Artificial Intelligence, vol. 21, no. 7, pp. 1092-1100, October 2008.

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10. W. Liu, J. Sarangapani, G.K. Venayagamoorthy, L. Liu, D.C. Wunsch II, M.L. Crow, and D.A. Cartes, "Decentralized neural network-based excitation control of large-scale power systems," *International Journal of Control, Automation, and Systems*, vol. 5, no. 5, pp. 526-538, October 2007.

COURSES TAUGHT 2009–2010:

EE 532 Power System Stability and Transients

EE 543/493 Power Systems III

EE 531 Power Network Modeling & Computation