

Biographical Sketches for Yuan Liao

(a) Professional preparation

Undergraduate institution	Major Degree & Year
Xi'an JiaoTong University, Xi'an, China	B.S. Electrical engineering, 1993

Graduate institutions	Major Degree & Year
Xi'an JiaoTong University, Xi'an, China	M.S. Electrical engineering, 1996
National University of Singapore, Singapore	M.S. Electrical engineering, 1997
Texas A&M University, College Station, Texas	Ph.D. Electrical engineering, 2000

(b) Appointments

07/2010 - present	Associate Director for the Graduate Program of Power and Energy Institute of Kentucky, University of Kentucky, Lexington, KY
07/2009 - present	Associate Professor, Dept. of Electrical and Computer Engineering, University of Kentucky, Lexington, KY
08/2005 – 07/2009	Assistant Professor, Dept. of Electrical and Computer Engineering, University of Kentucky, Lexington, KY
03/2005 - 08/2005	Principal Consulting R&D Engineer, Power Technology Division, ABB Corporate Research Center, Raleigh, NC
08/2000 - 03/2005	Consulting R&D Engineer, Power Technology Division, ABB Corporate Research Center, Raleigh, NC

(c) Selected recent publications

1. Esa A. Paaso, Yuan Liao, and Aaron M. Cramer, "Formulation and solution of distribution system voltage and var control with distributed generation as a mixed integer non-linear programming problem," *Electric Power Systems Research Journal*, vol. 108, pp. 164-169, March 2014.
2. Yuan Liao, Matthew Turner, and Yan Du, "Development of a smart grid roadmap for Kentucky," *Electric Power Components and Systems*, vol. 42, no. 3-4, pp. 267-279, February 2014.
3. Wanjing Xiu and Yuan Liao, "Novel fault location methods for ungrounded radial distribution systems using measurements at substation," *Electric Power Systems Research*, vol. 106, pp. 95-100, January 2014.

4. Ning Kang and Yuan Liao, "Double-circuit transmission line fault location utilizing synchronized current phasors," *IEEE Transactions on Power Delivery*, vol. 28, no. 2, pp. 1040-1047, April 2013.
5. Yuan Liao, "Generalized fault location methods for overhead electric distribution systems," *IEEE Transactions on Power Delivery*, vol. 26, no. 1, pp. 53-64, January 2011.
6. Xiaoming Feng and Yuan Liao, "Unit commitment by structure based solution and efficient Lagrangian relaxation," *International Journal of Emerging Electric Power Systems*, Vol. 11, No. 1, Article 9, 2010.
7. Yuan Liao, "Fault location observability analysis and optimal meter placement based on voltage measurements," *Electric Power Systems Research*, Vol. 79, No. 7, July 2009, pp. 1062-1068.
8. Thai Nguyen and Yuan Liao, "Power quality disturbance classification utilizing s-transform and binary feature matrix method," *Electric Power Systems Research*, Vol. 79, No. 4, April 2009, pp. 569-575.
9. Yuan Liao and Ning Kang, "Fault location algorithms without utilizing line parameters based on distributed parameter line model," *IEEE Transactions on Power Delivery*, Vol. 24, No. 2, April 2009, pp. 579 - 584.
10. Yuan Liao, "Fault location for single-circuit line based on bus impedance matrix utilizing voltage measurements," *IEEE Transactions on Power Delivery*, Vol. 23, No. 2, April 2008, pp. 609-617.

(d) Professional Affiliations

IEEE and Power System Relaying Committee member

(e) Students Advised

The following Ph.D. students have graduated:

Thai Dang Nguyen, Ning Kang, Pramote Chaiwan, Yan Du, Jiaxiong Chen, Wanjing Xiu, Esa Alekski Paaso