

Dr. ANURAG K SRIVASTAVA

Room 412, Simrall Hall
406 Hardy Road
Mississippi State, MS
39762

<http://www.ece.msstate.edu/~srivastava>
662.325.5838 (O)
srivastava@ece.msstate.edu

PO Box 9571
Mississippi State
MS 39762

I. Research/Teaching Interest

Power system stability, security, vulnerability, operation and control, electric ship power system, power system real time modeling and simulation, power system restructuring, energy policy, intelligent control of power system

II. Professional Experience

Assistant Research Professor,

Mississippi State University, Mississippi State, Mississippi, USA, (09/05- Present)

Research Activities:

- ✓ Key participants and fully responsible for the research, analysis, student advising, development and implementation of several projects related to shipboard power system, distributed generation, wide area monitoring and real time modeling and simulation funded by ONR, DoE, DoD, DoHS.
- ✓ Author of more than 60 journal and conference papers in the area of power system security, stability, control, energy and electricity markets

Research/ Educational Grants/ Project:

- [RG1]. Co-PI, Advanced Naval Power Systems through Electric ship system research and development, Office of Naval Research (Prime) through Florida State University, \$6,540,000, (10/2007- 9/2012) (\$1,308,000 for 2007-2008)
- [RG2]. Co-PI, Study of interconnection benefits, strategies and impact of biomass distributed generation on the electric power grid. US Department of Energy (DoE), \$199,358, (06/2007 - 10/2010).
- [RG3]. Researcher, "Semantic-driven knowledge discovery system for wide area monitoring of electric power grid" funded by department of Homeland Security (DoHS), \$588,000, (04/07-12/08)
- [RG4]. Researcher, Remote, nondestructive testing of power system, Multiple University Research Initiative, ONR through Drexel University, \$239,622, (5/2004- 11/2009)
- [RG5]. Co-PI, Adaptive reconfiguration for shipboard power and support systems, Office of Naval Research (Prime) through Florida State University, \$1,429,863.00, (10/2006-5/2007).
- [RG6]. Researcher, High performance real time system for hardware in the loop testing and analysis of advanced power and control systems, DURIP, Department of Defense (DoD), \$310,000.00, (04/2006 - 03/2007)
- [EG1] Co-PI, International Graduate Student's Challenges: A Survey – based Study, Educational Research Project

- [TF1] Travel funding for attending American Society of Engineering Education, Pittsburgh, PA, 2008, Office of Research and Economic Development, Dean of Engineering and Department of Electrical and Computer Engineering, \$1800
- [TG1] PI, Student Travel Support for the 2009 North American Power Symposium, held at Starkville, MS October 4-6, 2009, National Science Foundation, \$10,000, 09/01/2009-01/31/2010

Teaching:

- ✓ Spring 2006: Developed and taught **power system economics and deregulation** for graduate students
- ✓ Fall 2006: **Power system operation and control** and part of **electric ship power system** for graduate students
- ✓ Spring 2007: Guest lectures in **power system modeling and simulation** for graduate students
- ✓ Fall 2007: Taught **power system stability, security and vulnerability** for graduate students
- ✓ Spring 2008: Directed individual studies for two graduate students
- ✓ Summer 2008: Directed individual studies for one graduate students
- ✓ Fall 2008: Taught **power system economics and deregulation** and one directed individual studies for graduate students. Guest lectures in **power system transmission** for undergraduate and graduates students.
- ✓ Spring 2009: Directed individual studies for graduate student
- ✓ Fall 2009: **Power system operation and control** for graduate students

Student advising:

- ✓ Member of more than 40 graduate committees
 - [1]. Oluwaseun Amoda, M.S., August 2007
 - [2]. Venkata Kamisetty, M.S., December 2007
 - [3]. Koteswar Padamati, M.S., December 2007
 - [4]. Prashanth Duvoor, M.S., December 2007
 - [5]. Sunil Palla, M.S., December 2008.
 - [6]. Bidur Raj Gautam, M.S., August 2008
 - [7]. Vamsi Krishna Vijapurapu, M.S., December 2008
 - [8]. Qiuli Yu, Ph.D., December 2008
 - [9]. Yujie Zhang, M.S., December 2008
 - [10]. Bharath Ravulapati, M.S., December 2008
 - [11]. Abhilash Reddy Masannagari, M.S., December 2008
 - [12]. Aarthi Asok Kumar, M.S., December 2008
 - [13]. Dina Khaniya, M.S., December 2008
 - [14]. Srinath Kamireddy, M.S., December 2008
 - [15]. Krishnanjan Gubba Ravikumar, M.S., August 2009.
 - [16]. Chenfeng Zhang, M.S., Non thesis, December 2008
 - [17]. Bharath Annabathina, M.S., Non thesis, December 2008
 - [18]. Charles Ford, M.S., August 2009
 - [19]. Ameesh Suthar, M.S., August 2009
 - [20]. Bala Ranganath Kondaveeti, M.S., Non thesis, August 2009
 - [21]. Ankush Saran (Masters- Thesis)
 - [22]. Vinoth Mohan (Masters- Thesis)
 - [23]. Padmavathy Kankanala (Masters- Thesis)
 - [24]. Seetharam Rudraraju (Masters- Thesis)

- [25]. Venkata Pendurthi (Masters- Thesis)
 - [26]. Shireesha Methuku (Masters- Thesis)
 - [27]. Shilpa Toppo (Masters- Thesis)
 - [28]. Mounika Kurra (Masters- Thesis)
 - [29]. Ram Mohan Reddi (Masters- Thesis)
 - [30]. Venkata Surya Subrahmanyam (Masters- Thesis)
 - [31]. Doug Bowman (Masters- Thesis)
 - [32]. Minglan Lin (Ph. D.)
 - [33]. Yamilka Baez-Rivera (Ph. D.)
 - [34]. Anil Kondabathini (Ph. D.)
 - [35]. Shravana Musunuri (Ph. D.)
 - [36]. Derick Cherry (Ph. D.)
 - [37]. Qinghua Huang (Ph. D.)
 - [38]. Ramon Zamora (Ph.D.)
 - [39]. Pedram Jahangiri (Ph. D.)
 - [40]. Farshid Shariatzadeh (Ph. D.)
 - [41]. Yong Cheng (Ph. D.)
- ✓ Advised/ co-advised international undergraduate student interns
 - [1]. Nikhil Kumar, Institute of Technology, BHU, Varanasi, India, Summer 2007
 - [2]. Meenakshi Garg, Indian Institute of Technology, Delhi, India, Summer 2008
 - [3]. Udit Singh, Indian Institute of Technology, Delhi, India, Summer 2009
 - [4]. Sri Hari Krishna, Indian Institute of Technology, Kharagpur, India, Summer 2009
- ✓ Graduated following students as advisor/co-advisor
 - [1]. Sunil Palla, "Development of overcurrent relay model and power system simulator using national instruments devices in real-time", M.S., December 2008. (Got best Graduate Research Assistant Award)
 - [2]. Bharath Ravulapati, "Development of corrective actions for higher order contingencies", M.S., December 2008
 - [3]. Abhilash Reddy Masannagari, "Optimizing the size and location of distributed generators to maximize the grid stability", M.S., December 2008
 - [4]. Aarthi Asok Kumar, "Technical and economic impacts of distributed generators and energy storage devices on the electric grid", M.S., December 2008
 - [5]. Dina Khaniya, "Development of three phase continuation power flow for voltage stability analysis of distribution systems", M.S., December 2008
 - [6]. Srinath Kamireddy, "Comparison of state estimation algorithms considering phasor measurement units and major and minor data loss", M.S., December 2008
 - [7]. Krishnanjan Gubba Ravikumar, "Distributed simulation of power systems using Real Time Digital Simulator", M.S., August 2009. (Got best Graduate Research Assistant Award)
 - [8]. Chenfeng Zhang, M.S., Non thesis, December 2008
 - [9]. Bharath Annabathina, M.S., Non thesis, December 2008
 - [10]. Bala Ranganath Kondaveeti, M.S., Non thesis, August 2009
- ✓ Advising following students currently as advisor/co-advisor
 - [1]. Ankush Saran (Masters- Thesis)
 - [2]. Vinoth Mohan (Masters- Thesis)
 - [3]. Padmavathy Kankanala (Masters- Thesis)
 - [4]. Seetharam Rudraraju (Masters- Thesis)

- [5]. Venkata Pendurthi (Masters- Thesis)
- [6]. Shireesha Methuku (Masters- Thesis)
- [7]. Shilpa Toppo (Masters- Thesis)
- [8]. Mounika Kurra (Masters- Thesis)
- [9]. Ram Mohan Reddi (Masters- Thesis)
- [10]. Venkata Surya Subrahmanyam (Masters- Thesis)
- [11]. Doug Bowman (Masters- Thesis)
- [12]. Minglan Lin (Ph. D.)
- [13]. Yamilka Baez-Rivera (Ph. D.)
- [14]. Qinghua Huang (Ph. D.)
- [15]. Ramon Zamora (Ph.D.)
- [16]. Pedram Jahangiri (Ph. D.)
- [17]. Farshid Shariatzadeh (Ph. D.)
- [18]. Yong Cheng (Ph. D.)

Institutional Service:

- ✓ Faculty co-advisor, Eta Kappa Nu, Department of Electrical and Computer Engineering, MSU (06-present)
- ✓ Member, Power and Control Committee, Department of Electrical and Computer Engineering, MSU (05-present)
- ✓ Member, Graduate Committee, Department of Electrical and Computer Engineering, MSU (05-08)
- ✓ Member, Undergraduate Committee, Department of Electrical and Computer Engineering, MSU (08-09)
- ✓ Member, Energy working group, Mississippi State University (06-present)
- ✓ Member, Working group on Controls and Robotics, Mississippi State University (08-present)
- ✓ Member, Scientific computing research group, Mississippi State University (06-present)
- ✓ Member, Advanced Prototyping Experimentation Laboratory (APEX), Mississippi State University, (07-present)

Graduate Research Assistant, IIT, Chicago, (08/01- 07/05)

- ✓ Identified vulnerability of power system to malicious attack by finding the severity of combination of two, three, four or more contingencies
- ✓ Developed new search strategies to narrow down the number of potential sever contingencies in search space based on eigenvector
- ✓ Developed novel contingency screening algorithms for voltage-collapse studies of generator and branch outage
- ✓ Enhanced the performance of CMTRACE (Power flow solver based on continuation method) by making it faster, more efficient and accurate and to make it handle three winding transfer and generation merit order
- ✓ Improved CMTRACE to identify breaking and bifurcation point in more robust and efficient way
- ✓ Developed control algorithm for Phase shifters to match the actual operation strategies
- ✓ Explored theoretical aspect about congestion management using FACTS device
- ✓ Designed model for deregulating Indian power sector
- ✓ Conducted research studies for price forecasting of electricity, price based unit commitment, generation asset valuation and risk analysis, arbitrage, transmission pricing and congestion management in restructured environment using software developed at IIT
- ✓ Assessed efficiency of transmission loading relief

- ✓ Performed comprehensive studies for congestion management using game theory
- ✓ Evaluated reliability of distribution system using basic and extended techniques

Teaching Assistant, IIT, Chicago (08/01- 05/05)

- ✓ Developed 6 new experiments for ‘Fundamentals of Power Systems’ and documented new lab manual
- ✓ Assisted professor with grading and conducting labs for undergraduate and graduate courses:
 - Circuit Analysis I & II
 - Fundamentals of Power Engineering
 - Traveling Waves
 - Hardware/Software Co-Design
 - Power Electronics
 - Linear System Theory

Lab Administrator, IIT, Chicago (08/0105/05)

- ✓ Managed power computer lab, maintained 14 computers loaded with power engineering related software used for experiments by students

Senior Research Associate, Indian Institute of Technology, Kanpur, India (08/99-08/01)

- ✓ Conducted least cost generation expansion planning studies with emission constraints for NREB, India
- ✓ Identified Clean Development Mechanism (CDM) projects in the Indian power sector
- ✓ Examined environmental implications of Independent Power Producers (IPP)

Research Fellow, Asian Institute of Technology, Bangkok, Thailand (02/00 – 04/00 & 03/01- 05/01)

- ✓ Evaluated effects of regional grid integration and the role of clean technologies for power sector development in India with GHG emission targets
- ✓ Assessed environmental implication of decentralized power generation

Teaching Assistant, Institute of Technology, BHU, Varanasi, India (01/98 – 05/99)

- ✓ Helped professor to conduct and supervise control system Laboratory

Graduate Research Student, Institute of Technology, BHU, Varanasi, India (01/98 – 05/99)

- ✓ Improved the performance of shrinking span fuzzy logic controller
- ✓ Designed microprocessor based temperature regulator

Undergraduate Research Student, HBTI, Kanpur, India (01/97 – 05/97)

- ✓ Developed software for static state estimation using fast rectangular coordinate method

Trainee Engineer at GEC ALSTHOM, Allahabad, India (05/96-07/96)

- ✓ Developed specific policy recommendation to utilize manpower in better way

Education

Illinois Institute of Technology (IIT), Chicago, IL, USA,

Ph.D., July 2005, GPA: 4.0/4.0, Distinction with Honor

Electrical Engineering, Power Systems, Advisor: Dr. Alexander J. Flueck

Dissertation: **Voltage Collapse Contingency Screening and Power Grid Vulnerabilities**

Institute of Technology, Banaras Hindu University (BHU), Varanasi, India

Master of Technology, July 1999, GPA: 3.7/4

University topper, Distinction with honor

Electrical Engineering, Specialization in *Control Systems*, Advisor: Dr. T. Nagraj
Thesis: **Study of Relative Performance of Shrinking Span Fuzzy Logic Controller**

Harcourt Butler Institute of Technology (HBTI), Kanpur, India
Bachelor of Technology, May 1997, GPA: 3.8/4,
Electrical Engineering

Publications

Book/Book Chapters

- [B1]. *Anurag K Srivastava* and Alexander J Flueck, “Contingency Screening Techniques and Electric Grid Vulnerabilities: Mathematical Modeling, Algorithm Development and Applications”, VDM Verlag, June, 2008, ISBN-10: 3836487012
- [B2]. Paras Mandal, *Anurag K. Srivastava*, Tomonobu Senjyu, and Michael Negnevitsky, “Electricity Price Forecasting Using Neural Network and Similar Days”, under review, IEEE Press’s Advances in Electric Power and Energy; Power Systems Engineering.
- [B3]. Noel N. Schulz, *Anurag K. Srivastava*, Jignesh M. Solanki, Koteswar Reddy Padamati and Sandhya Sankar, “Computational Intelligence for Shipboard Power System Reconfiguration and Measurement Placement”, under review, IEEE press, intelligent control subcommittee

Journal

Published/Accepted:

- [J1]. Paras Mandal, *Anurag K Srivastava*, Michael Negnevitsky and Jung-Wook Park, “**An Effort to Optimize Similar Days Parameters for ANN based Electricity Price Forecasting**”, in press, IEEE Transaction on Industrial Application Society (**2008 Prize Paper Award from the Energy Systems Committee, IEEE Industry Applications Society(IAS)**)
- [J2]. Paras Mandal, *Anurag K. Srivastava*, T. Senjyu and Michael Negnevitsky, “**A New Recursive Neural Network Algorithm to Forecast Electricity Price for PJM day-ahead market**”, in press, International Journal of Energy Research.
- [J3]. S. Kamalasadana, *A K Srivastava* and D. Thukaram, “**A new intelligent algorithm for online voltage stability assessment and monitoring**”, in press, November 2008 (available online), Elsevier International Journal of Electric Power and Energy System
- [J4]. Paras Mandal, *Anurag K. Srivastava*, Michael Negnevitsky and J. W. Park, “**Sensitivity analysis of neural network parameters to improve the performance of electricity price forecasting**”, International Journal of Energy Research, vol. 33, No. 1, pp. 38-51, January 2009.
- [J5]. Paras Mandal, Tomonobu Senjyu, Naomitsu Urasaki, Toshihisa Funabashi, and *Anurag K. Srivastava*, “**A novel approach to forecast electricity price for PJM using neural network and similar days Method,**” IEEE Transaction on power systems, Volume 22, Issue 4, Nov. 2007, pp. 2058 – 2065
- [J6]. *A. Srivastava*, M. Shahidehpour, “**Restructuring Choices for the Indian Power Sector**”, IEEE Power Engineering Review, November 2002, Vol. 22, No. 11, Page 25-29.
- [J7]. *A.K. Srivastava*, Ram M. Shrestha, S.C. Srivastava, Dharam Paul, and Rabin Shrestha “**Power sector development in India with CO₂ emission targets: Effects of regional grid integration and the role of clean technologies**”, International Journal of Energy Research, 2003, vol. 27, pp. 671-685.

- [J8]. *Anurag K Srivastava*, Sheldon S Williamson, “**Techniques of power factor correction-I**”, ePower magazine, EFY, July 2004, pp. 53-56.
- [J9]. *Anurag K Srivastava*, Sheldon S Williamson, “**Techniques of power factor correction-II**”, ePower magazine, EFY, September 2004, pp. 22-26.

Submitted:

- [J10]. *Anurag K. Srivastava*, Bharath Annabathina and Sukumar Kamalasadana, “**Techno-Economic Issues and Policy Options of Plug-in Hybrid Vehicle on Electric Grid**”, submitted to International Journal of Energy.
- [J11]. Yujie Zhang, Sunil K Palla, *Anurag K Srivastava*, Jimena Bastos and Noel N Schulz, “**Design and Validation of a Protection Relay using dSPACE and Real-Time Digital Hardware Simulation**”, submitted to IEEE Transaction on Instrumentation and Measurements.
- [J12]. Aarthi Asok Kumar, *Anurag K Srivastava* and Noel N Schulz, “**Impact of Energy Storage devices on the Electric Grid with Distributed Generators**”, submitted to IEEE Transaction on Industrial Electronics

In preparation:

- [J13]. Vamsi K Vijapurapu, Noel N Schulz and *Anurag K Srivastava*, “**Differential Relay Model Development and Validation Using Real Time Hardware-in-the-loop Simulation**”, to be submitted to IEEE Transaction on Industrial Electronics.
- [J14]. *Anurag K Srivastava* and Alexander J Flueck, “**A new four-stage voltage collapse contingency ranking algorithm for branch outages in large scale power system**”, to be submitted to IEEE Transaction on Power System.
- [J15]. *Anurag K Srivastava* and Alexander J Flueck, “**Evaluating the severity of generator outage contingencies based on three-stage screening algorithm**”, in preparation for IEEE Transaction on power system.
- [J16]. *Anurag K Srivastava* and Alexander J Flueck, “**Identifying power grid vulnerability**”, in preparation for IEEE Transaction on Power System
- [J17]. *Anurag K Srivastava* and Alexander J Flueck, “**Improvements in CMTRACE: continuation based power flow solver**”, in preparation for International journal of power and energy system.
- [J18]. *Anurag K Srivastava* and Alexander J Flueck, “**A concept of contingency scope index and its application in contingency ranking**”, in preparation for IEEE Transaction on Power System.
- [J19]. *Anurag K Srivastava* and Sukumar Kamalasadana, “**Probabilistic Formulation for Price based Unit Commitment with Arbitrage**”, in preparation for International Journal of power and energy system.
- [J20]. *Anurag K Srivastava* and Noel N Schulz, “**Applications of Real Time Digital Simulator in Power System Education and Research**”, in preparation for IEEE Transaction on power system.
- [J21]. Bidur Gautam, Noel Schulz and *Anurag K Srivastava*, “**Reconfiguration of Power System using Survivability Index**”, to be submitted to IEEE Transaction on Power System.
- [J22]. Bharath Ravulapati, *Anurag K Srivastava*, Noel N Schulz and Suresh C Srivastava, “**Development of Corrective Actions for Higher Order Contingencies**”, to be submitted to Electric Power System and Research
- [J23]. Sunil K Palla, Ankush Saran, Yujie Zhang, *Anurag K Srivastava* and Noel Schulz, “**Development and Validation of Real Time Power System Simulator NI-PXF**”, to be submitted to IEEE Transaction on Power System.

- [J24].Sunil K Palla, Anurag K Srivastava and Noel Schulz, “*Advanced Overcurrent Relay Model Development using National Instruments*”, to be submitted to IEEE Transaction on Power System.
- [J25].Vinoth Mohan, Nischal Dahal, Surya S Durbha, *Anurag K Srivastava*, Roger L King, Nicolas Younan and Noel Schulz, “*Business Process Integration in Power Systems using Common Information Model and Sensor Web*”, to be submitted to IEEE Transaction on Power System.
- [J26].Qiuli Yu, Noel N Schulz and *Anurag K Srivastava*, “*Multi-Agent Based Reconfiguration of an AC-DC Distribution System for All-Electric Ships*”, to be submitted to IEEE Transaction on Power System.
- [J27].Ankush Saran, Padmavathy Kankanala, *Anurag K Srivastava* and Noel N Schulz, “*Hardware and Software relay Testing for Power System Protection using RTDS*”, to be submitted to Electric Power System and Research
- [J28].Kotesh R Padamati, Nikhil Kumar, Noel N Schulz and *Anurag K Srivastava*, “*Application of Evolutionary Algorithms for Reconfiguration of Shipboard power System*”, to be submitted to Electric Power System and Research
- [J29].Anurag Srivastava, Roger King, Noel N. Schulz and Vahid Madani, “*Concept for Semantics-driven Information Services for Wide Area Monitoring of the Electric Power Grid*”, to be submitted to IEEE Power System Letters

Conference

Published/Accepted:

- [C1]. S.C. Srivastava, *A.K. Srivastava*, U.K. Rout, Dharam Paul, Praveen Gupta and R. M Shrestha ‘**Least Cost Generation Expansion Planning for a Regional Electricity Board in India Considering Green House Gas Mitigation**’, IEEE International Conference on Power System Technology, POWERCON-2000, Australia, 4-7 December, 2000, Vol. 1, Page 31-36.
- [C2]. S.C. Srivastava, *A.K. Srivastava*, U.K. Rout, M. Sharma, Dharam Paul, Praveen Gupta, R. M Shrestha and S. Karki ‘**Identification of Projects under Clean Development Mechanism for A Regional Electricity Boards of India**’, IEEE sponsored North American Power Symposium (NAPS), Texas, USA, 15-16 October, 2001
- [C3]. S.C. Srivastava, *A.K. Srivastava*, U.K.Rout, B.K. Barnwal, M. Sharma, Dharam Paul, Praveen Gupta, R.M. Shrestha and Rabin Shrestha ‘**A Study on Environmental Impact of Independent Power Producers in Northern Regional Electricity Board of India**’ IASTED International Conference on Power and Energy Systems (PES2001), Florida, USA, 19-22 November 2001
- [C4]. S.C. Srivastava, B.K. Barnwal, *A.K. Srivastava*, Dharam Paul, Praveen Gupta, R.M. Shrestha and Rabin Shrestha, ‘**A Study on Environmental & Utility planning implications of Distributed power generation for a regional Electricity Board in India**’ Power System Conference (PSC) 2002, Clemson, SC
- [C5]. *Anurag K Srivastava* and Alexander J Flueck, ‘**A Novel and Fast Two-Stage Right Eigenvector Based Branch Outage Contingency Ranking**’, IEEE/PES 2005 General Meeting, San Francisco, CA, USA, 12-16 June 2005
- [C6]. S. Kamalasadana, *A K Srivastava* and D. Thukaram, ‘**Novel algorithm for online voltage stability assessment based on feed forward neural network**’, IEEE PES general Meeting, Montreal, Canada, 18-22 June, 2006
- [C7]. Sukumar Kamalasadana, and *Anurag K Srivastava*, ‘**A novel multiagent supervisory loop based control algorithm for fighter aircraft pitch rate tracking**’, Proceedings of 21st International conference on computers and their application, Seattle, Washington, March 23-25, 2006.

- [C8]. Qiuli Yu, Song-Yul Choe, *Anurag K Srivastava* and Wenzhong Gao, ‘**Improved Modeling and control of a PEM fuel cell power system for vehicles**’, Proceedings of IEEE South East Conference, Memphis, March 30th-april 2nd, 2006
- [C9]. *A K Srivastava*, S Kamalasadana and A. Hande, ‘**Comparative performance of improved shrinking span fuzzy logic based controller**’, Proceedings of IEEE South East Conference, Memphis, March 30th-april 2nd, 2006
- [C10]. A. Hande, S. Kamalasadana and *A. Srivastava*, “**A selective voltage measurement system for series connected battery packs**”, Proceedings of IEEE South East Conference, Memphis, March 30th-april 2nd, 2006
- [C11]. Paras Mandal, Tomonobu Senjyu, Naomitsu Urasaki, Toshihisa Funabashi, and *Anurag K. Srivastava*, “**Electricity Price Forecasting for PJM Day-Ahead Market**”, PSCE 2006, Oct. 29-Nov. 1, Atlanta, Georgia, USA
- [C12]. Paras Mandal, Tomonobu Senjyu, Naomitsu Urasaki, Toshihisa Funabashi, and *Anurag K. Srivastava*, “**Short-term Price Forecasting for Competitive Electricity Market**”, NAPS 2006, Sep. 17-19, Carbondale, Illinois, USA
- [C13]. Jignesh Solanki, Sarika Khushalani, and *Anurag Srivastava*, “**A Genetic Algorithm Approach to Price-Based Unit Commitment**”, NAPS 2006, Sep. 17-19, Carbondale, Illinois, USA
- [C14]. Yamilka Baez-Rivera, Bienvenido Rodriguez-Medina and *Anurag K Srivastava*, “**An Attempt to Forecast Price Spikes in Electric Power Markets**” NAPS 2006, Sep. 17-19, Carbondale, Illinois, USA
- [C15]. Prashanth Duvor, Koteswar R Padamati, Sujatha Kotamarty, and *Anurag K Srivastava*, “**Impact of FACTS Devices on Transmission Pricing and Loop Flows**” NAPS 2006, Sep. 17-19, Carbondale, Illinois, USA
- [C16]. Jian Wu, Yong Cheng, *Anurag K Srivastava*, Noel N. Schulz and Herbert L. Ginn III, “**Hardware in the loop test for power system modeling and simulation**”, PSCE 2006, Oct. 29-Nov. 1, Atlanta, Georgia, USA
- [C17]. Noel Schulz, Herbert Ginn III, Stan Grzybowski, *Anurag Srivastava* and Jimena Bastos, “**Ship-To-Shore Collaborations: Integrating Research Of Shipboard Power Systems Into Today’s Power Engineering Research Activities**”, ASEE annual conference and exposition, Hawaii, June 24–27, 2007
- [C18]. Noel Schulz, Herbert Ginn III, Stan Grzybowski, *Anurag Srivastava* and Jimena Bastos, “**Integrating Shipboard Power System Topics into Curriculam**”, ASEE annual conference and exposition, Hawaii, June 24–27, 2007
- [C19]. Paras Mandal, Tomonobu Senjyu, Naomitsu Urasaki, Toshihisa Funabashi, Atsushi Yona, and *Anurag K. Srivastava*, “**Price Forecasting for Day-Ahead Electricity market using Recursive Neural Network**”, PES GM 2007, June 24 -28, Tampa, Florida, USA
- [C20]. *Anurag K Srivastava*, Jimena Bastos, Noel N. Schulz and Herbert Ginn III “**AC/DC Power System Modeling and Analysis for Shipboard Applications**”, PES GM 2007, June 24 -28, Tampa, Florida, USA
- [C21]. Qiuli Yu , Sarika Khushalani, Jignesh Solanki, Noel N. Schulz, Herbert L Ginn III, Stanislaw Grzybowski, *Anurag Srivastava* and Jimena Bastos, “**Shipboard Power Systems Research Activities at Mississippi State University**”, Proceedings of IEEE Electric Ship Technologies Symposium (ESTS), May 21-23, 2007, Arlington, Virginia, USA
- [C22]. Sunil Palla, *Anurag K Srivastava* and Noel N. Schulz, “**Hardware in the Loop Test for Relay Model Validation**”, Proceedings of IEEE Electric Ship Technologies Symposium (ESTS), May 21-23, 2007, Arlington, Virginia, USA
- [C23]. Minglan Lin, *Anurag K Srivastava* and Noel N. Schulz, “**A Generic Digital Model of Multiphase Synchronous Generator for Shipboard Power System**”, Proceedings of IEEE Electric Ship Technologies Symposium (ESTS), May 21-23, 2007, Arlington, Virginia, USA

- [C24]. Chenfeng Zhang, Vamsi K Vijapurapu, *Anurag K Srivastava*, Noel N. Schulz, Jimena Bastos and Rudi Wierckx, “**Hardware-in-the-Loop Simulation of Distance Relay Using RTDS**”, 2007 Summer Simulation Multiconference (SummerSim'07), Jul 14, 2007 - Jul 19, 2007, San Diego, CA United States
- [C25]. Minglan Lin, *Anurag K. Srivastava*, Noel N. Schulz, “**Modeling Considerations in Static and Dynamic Voltage Stability Studies of Shipboard Power Systems**”, 2007 Summer Simulation Multiconference (SummerSim'07), Jul 14, 2007 - Jul 19, 2007, San Diego, CA, USA
- [C26]. Nikhil Kumar, *Anurag K Srivastava*, and Noel N. Schulz, “**Shipboard Power System Restoration Using Binary Particle Swarm Optimization**”, North American Power Symposium (NAPS), September 30 - October 2, 2007, Las Cruces, NM, USA
- [C27]. Paras Mandal, Tomonobu Senjyu, Atsushi Yona, Jung-Wook Park, and *Anurag K. Srivastava*, “**Sensitivity analysis of Similar days parameters for predicting Short-term electricity Price**”, North American Power Symposium (NAPS), September 30 - October 2, 2007, Las Cruces, NM, USA
- [C28]. Bidur R. Gautam, Noel N. Schulz, and *Anurag K. Srivastava*, “**Developing a Survivability Index for Distribution Systems Including Islanding**”, North American Power Symposium (NAPS), September 30 - October 2, 2007, Las Cruces, NM, USA
- [C29]. Koteswar R. Padamati, Noel N. Schulz, and *Anurag K. Srivastava*, “**Application of Genetic Algorithm for Reconfiguration of Shipboard Power System**”, North American Power Symposium (NAPS), September 30 - October 2, 2007, Las Cruces, NM, USA
- [C30]. Qiuli Yu, Jignesh Solanki, Koteswar Padamati, Padmavathy Kankanala, Nikhil Kumar, *Anurag Srivastava*, Jimena Bastos and Noel Schulz, “**Intelligent Methods for Reconfiguration of Terrestrial and Shipboard Power Systems**”, IEEE Power Engineering Society General Meeting (PES GM), Pittsburgh, July 20-24th, 2008
- [C31]. Nikhil Kumar, S. P. Singh, *Anurag K Srivastava* and Noel N. Schulz, “**Application of binary Particle Swarm Optimization for Electric Ship Restoration**”, International Conference on Power System (ICPS 2007), Bangalore, India, December 12-14, 2007
- [C32]. Aarthi Asok Kumar, *Anurag K Srivastava* and Noel N. Schulz, “**Impact of Biomass Based Distributed generation with Energy Storage on Transient Stability of Grid**”, Proceedings of Power System Conference (PSC), March 11-14, 2008, Clemson, SC
- [C33]. Abhilash R Masannagari, *Anurag K Srivastava* and Noel N. Schulz, “**Optimizing Siting and Sizing of DG to maximize Grid Stability**”, Proceedings of Power System Conference (PSC), March 11-14, 2008, Clemson, SC
- [C34]. Bharath K Ravulapati, Srinath Kamireddy, *Anurag K Srivastava* and Noel N Schulz, “**Developing Corrective and Preventive Actions for Extreme Contingencies**”, Proceedings of Power System Conference (PSC), March 11-14, 2008, Clemson, SC
- [C35]. Anil K Kondabathini, Koteswar Padamati, Prashanth Duvoor and *Anurag K Srivastava*, “**Simulation of FACTS devices for Power System Security Enhancement Using RTDS**”, Proceedings of Power System Conference (PSC), March 11-14, 2008, Clemson, SC
- [C36]. Soumya Keshavamurthy, *Anurag K Srivastava*, Adrienne Minerick and Noel N Schulz, “**Challenge for International Students in a Globally Changing Environment**”, ASEE annual conference and exposition, Pittsburgh, PA, June 22–25, 2008
- [C37]. Aarthi Asok Kumar, Abhilash R Masannagari, *Anurag K Srivastava* and Noel N Schulz, “**Impact of Biomass Based Distributed generation on Electric Grid**”, Clean technology and Sustainable Industries Conference and Trade Show, Boston, MA, June 1-5, 2008
- [C38]. Paras Mandal, *Anurag K Srivastava*, Michael Negnevitsky and Jung-Wook Park, “**An effort to optimize similar days parameters for ANN based electricity price forecasting**”, IEEE- IAS 2008 Annual Meeting, Edmonton, Alberta, Canada, October 5-9, 2008

- [C39]. Meenakshi Garg, Hymiar Hamilton, *Anurag K. Srivastava*, and Noel N. Schulz, “**DC Fault Analysis Using Simulink and RTDS**”, IEEE Conference & Exhibition on Control, Communication and Automation (INDICON), Indian Institute of Technology, Kanpur, India, 11-13 December, 2008
- [C40]. Dina Khaniya, Anurag K. Srivastava and Noel N. Schulz, “**Distribution Power Flow for Multiphase Meshed or Radial Systems**” North American Power Symposium (NAPS), Calgary, Canada, September 28th to 30th, 2008
- [C41]. Qinghua Huang, Noel N. Schulz, Jian Wu, Tomasz Haupt, and *Anurag K. Srivastava*, “**Power System Decoupled Simulation in MATLAB/SIMULINK**”, North American Power Symposium (NAPS), Calgary, Canada, September 28th to 30th, 2008
- [C42]. Srinath Kamireddy, Noel N. Schulz, and *Anurag K. Srivastava*, “**Comparison of State Estimation Algorithms for Extreme Contingencies**”, North American Power Symposium (NAPS), Calgary, Canada, September 28th to 30th, 2008
- [C43]. Ankush Saran, Sunil K. Palla, *Anurag K. Srivastava*, and Noel N. Schulz, “**Real Time Power System Simulation using RTDS and NI PXI**”, North American Power Symposium (NAPS), Calgary, Canada, September 28th to 30th, 2008
- [C44]. Vamsi K Vijapurapu, Noel N. Schulz, *Anurag K Srivastava*, and Jimena Bastos, “**Comparative Assessment of Differential Relay Model Performance with Hardware Equipment**”, Grand Challenges in Modeling & Simulation, Summer Simulation Conference (SummerSim), June 16-19, 2008 Edinburgh, Scotland.
- [C45]. Vinoth Mohan, Noel N Schulz, and *Anurag K Srivastava*, “**Common Information Model for Sensors**” Grand Challenges in Modeling & Simulation, Summer Simulation Conference (SummerSim), June 16-19, 2008 Edinburgh, Scotland.
- [C46]. Yamilka Báez-Rivera, Noel N. Schulz and *Anurag K. Srivastava*, “**Simulations to Study the Stability Issues in a Shipboard Power System**”, Grand Challenges in Modeling & Simulation, Summer Simulation Conference (SummerSim), June 16-19, 2008 Edinburgh, Scotland.
- [C47]. Ankush Saran, Padmavathy Kankanala, *Anurag K. Srivastava* and Noel N. Schulz, “**Designing and Testing Protective Overcurrent Relay using Real Time Digital Simulation**”, Grand Challenges in Modeling & Simulation, Summer Simulation Conference (SummerSim), June 16-19, 2008 Edinburgh, Scotland.
- [C48]. Sunil Palla, *Anurag K Srivastava* and Noel N. Schulz, “**Modeling and validation of an overcurrent relay using LabVIEW and RTDS**”, Grand Challenges in Modeling & Simulation, Summer Simulation Conference (SummerSim), June 16-19, 2008 Edinburgh, Scotland.
- [C49]. Krishnanjan G. Ravikumar, Noel N. Schulz, and *Anurag K. Srivastava*, “**Distributed Simulation of Power Systems using Real-time Digital Simulator**”, Power systems Conference and Exposition (PSCE), March 15-18, 2009, Seattle, Washington
- [C50]. N. Dahal, V. M. Mohan, S. S. Durbha, A. K. *Srivastava*, R. L. King, N.H. Younan, and N. Schulz, “**Wide Area Monitoring using Common Information Model and Sensor Web**” Power systems Conference and Exposition (PSCE), March 15-18, 2009, Seattle, Washington
- [C51]. Paras Mandal, *Anurag K. Srivastava*, and Michael Negnevitsky, “**Improving Performance of NN Based Electricity Price Forecasting Using Sensitivity Analysis**”, Power systems Conference and Exposition (PSCE), March 15-18, 2009, Seattle, Washington
- [C52]. Soumya Keshavamurthy, *Anurag K Srivastava*, Adrienne Minerick and Noel N Schulz, “**International Graduate Students’ Challenges: A Survey-based Study**”, ASEE annual conference and exposition, Austin, TX, June 14-17, 2009
- [C53]. *Anurag K Srivastava* and Noel N Schulz, “**Applications of Real Time Digital Simulator in Power System Education and Research**” ASEE annual conference and exposition, Austin, TX, June 14-17, 2009

- [C54]. Qinghua Huang, Noel N. Schulz, *Anurag K. Srivastava*, and Tomasz Haupt, “**Distributed State Estimation with PMU Using Grid Computing**”, IEEE PES General Meeting, Calgary, Canada, 26-30 July, 2009
- [C55]. Ankush Saran, *Anurag K. Srivastava*, and Noel N. Schulz, “**Modeling and Simulation of Shipboard Power System Protection Schemes Using Coordination of Overcurrent Relay**”, IEEE Electric Ship Technologies Symposium (ESTS), 20-22 April 2009, Baltimore, Maryland, USA
- [C56]. Seetharama R Rudraraju, *Anurag K. Srivastava*, and Suresh C Srivastava, “**Small Signal Stability Analysis of A Shipboard MVDC Power System**”, IEEE Electric Ship Technologies Symposium (ESTS), 20-22 April 2009, Baltimore, Maryland, USA
- [C57]. Venkata K. Pendurthi, Noel N. Schulz, Stephanie Doane, and *Anurag K. Srivastava*, “**Cognitive Engineering Studies of DSS and Dealing with Uncertainty in Load for Real-time Adaptive Power System Reconfiguration**”, IEEE Electric Ship Technologies Symposium (ESTS), 20-22 April 2009, Baltimore, Maryland, USA
- [C58]. Michael Negnevitsky, Paras Mandal, and *Anurag K. Srivastava*, “**An overview of Forecasting Problems and Techniques in Power Systems**”, IEEE PES General Meeting, Calgary, Canada, 26-30 July, 2009
- [C59]. Thomas H. Morris, Sherif Abdelwahed, *Anurag K Srivastava*, Ray Vaughn and Yoginder Dandass, “**Secure and Reliable Cyber Physical Systems**”, National Workshop on new research directions for future Cyber-Physical Energy Systems, June 3-4, 2009, Baltimore, Maryland
- [C60]. Michael Negnevitsky, Paras Mandal, and *Anurag K. Srivastava*, “**Machine Learning Applications for Load and Price Forecasting and Wind Power Prediction in Power Systems**”, Intelligent System Application in Power System, 2009
- [C61]. T. Morris, *A. Srivastava*, B. Reaves, K. Pavurapu, R. Vaughn, W. McGrew, Y. Dandass, “**Engineering Future Cyber-Physical Energy Systems: Challenges, Research Needs, and Roadmap**”, North American Power Symposium, 2009
- [C62]. Padmavathy Kankanala, Suresh C Srivastava, *Anurag K Srivastava* and Noel N Schulz, “**Optimal Control of Voltage and Power in a Multi Zonal Shipboard MVDC Power System**”, North American Power Symposium, 2009
- [C63]. Shireesha Methuku, *Anurag K Srivastava* and Noel N Schulz, “**Comprehensive Modeling and Stability Analysis of Biomass Generation**”, North American Power Symposium, 2009

Submitted:

- [C64]. R. Zamora, *Anurag K. Srivastava*, and Syukriyadin, “**Microgrids for Reliable, Clean and Efficient Power Delivery**,” 4th Annual International Workshop and Expo on Sumatra Tsunami Disaster and Recovery (AIWEST-DR 2009), Banda Aceh, Indonesia, 23-25 November 2009.
- [C65]. H. Daneshi, *Anurag K srivastava* and A. Daneshi, “**Application of Fuzzy Logic to priced-based Unit Commitment under Price Uncertainty**”, IEEE T&D conference and exposition, New Orleans, LA, 2009
- [C66]. H. Daneshi, *Anurag K srivastava* and A. Daneshi, “**Generation Scheduling with Integration of Wind Power and Compressed Air Energy Storage**”, IEEE T&D conference and exposition, New Orleans, LA, 2009
- [C67]. Minglan Lin, *Anurag K srivastava* and Noel Schulz, “**Voltage Stability Assessment of AC/DC Systems**”, IEEE T&D conference and exposition, New Orleans, LA, 2009
- [C68]. Venkata Pendurthi, Noel Schulz and *Anurag K srivastava*, “**Dealing with Errors in the Measurements for the Reconfiguration of Distribution Power Systems**”, IEEE T&D conference and exposition, New Orleans, LA, 2009

Posters

- [P1]. Yangfeng Gong, Minglan Lin, Noel Schulz and *Anurag K Srivastava*, “**Voltage stability index (VSI) based on synchronized phasor measurement**”, 2006 ESRDC annual meeting, May 31-June 1, Columbia, South Carolina, USA.
- [P2]. Yong Cheng, Jian Wu, *Anurag K Srivastava* and Noel Schulz, “**Hardware-in-the-loop test for protective relay**”, 2006 ESRDC annual meeting, May 31-June 1, Columbia, SC, USA.
- [P3]. Lennon Brown, III, Noel Schulz and *Anurag K Srivastava*, “**Integration of transmission and distribution power flows using MATLAB**”, 2006 ESRDC annual meeting, May 31-June 1, Columbia, South Carolina, USA.
- [P4]. *Anurag K Srivastava* and Noel Schulz, “**National instruments hardware capability at MSU**”, 2006 ESRDC annual meeting, May 31-June 1, Columbia, South Carolina, USA.
- [P5]. Qiuli Yu, Noel Schulz, *Anurag K Srivastava* and Wenzhong gao, “**Fuel cell stack system modeling and control with Labview**”, 2006 ESRDC annual meeting, May 31-June 1, Columbia, South Carolina, USA.
- [P6]. Jian Wu, Yong Cheng, *Anurag K Srivastava*, and Noel N. Schulz, “**Hardware in the loop test for relay model validation**”, ESRDC control workshop, August 17-18, 2006, Purdue University, West Lafayette, Indiana, USA
- [P7]. Paras Mandal, Tomonobu Senjyu, Naomitsu Urasaki, Toshihisa Funabashi, and *Anurag K. Srivastava*, “**A Novel Approach to Forecast Day-Ahead Electricity Price using Artificial Neural Network**”, Young Engineer Poster Competition (YPC), IEEJ2006 Annual meeting, University of the Ryukyus, Japan, September 17-19, 2006. (*Best Poster Award*)
- [P8]. *Anurag K Srivastava*, Noel N. Schulz, Herbert L. Ginn III, Jimena L. Bastos and Stanislaw Grzybowski “**Experiences with Team-Taught Shipboard Power System Course at MSU**”, NSF/ONR/EPRI sponsored Workshop on Reforming Electric Energy Systems Curriculum, February 2-3, 2007, Santa Fe, NM, USA
- [P9]. Bidur Raj Gautam, Noel N Schulz and *Anurag K Srivastava*, “**Contingency Analysis of Shipboard Power System to Increase the Survivability**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 7-8, 2007, Massachusetts Institute of Technology, Boston, MA, USA
- [P10]. Dina Khaniya, *Anurag K Srivastava* and Noel N. Schulz, “**Voltage Stability Assessment of Shipboard Power Systems Using Continuation Power Flow**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 7-8, 2007, Massachusetts Institute of Technology, Boston, MA, USA
- [P11]. Chenfeng Zhang, *Anurag K Srivastava*, Jimena Bastos and Noel N. Schulz, “**Hardware in the Loop Simulation of Protective Relay Using RTDS**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 7-8, 2007, Massachusetts Institute of Technology, Boston, MA, USA
- [P12]. Minglan Lin, *Anurag K Srivastava* and Noel N Schulz “**Static and Dynamic Voltage Stability Assessment of Shipboard Power System**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 7-8, 2007, MIT, Boston, MA, USA
- [P13]. Sunil Palla, *Anurag K Srivastava*, and Noel N. Schulz, “**Hardware-in-the-loop Simulation for Protective Relay using National Instruments**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 7-8, 2007, MIT, Boston, MA, USA
- [P14]. Abhilash R. Masannagari, *Anurag Srivastava* and Noel N. Schulz, “**Impact of Location and Size of Distributed Generation on the Grid**,” Poster, Sixth Annual Southern BioProducts Conference, Choctaw, MS, April, 2007.
- [P15]. Aarthi Asok Kumar, *Anurag Srivastava* and Noel N. Schulz, “**Investigation of Technical and Economic Solutions Related to Energy Storage and Power Conditioning Devices of**

- Biomass Generator Energy,”** Poster, Sixth Annual Southern BioProducts Conference, Choctaw, MS, April, 2007.
- [P16]. Anurag Srivastava, Noel N. Schulz, Nicholas Younan, Roger King, Srinath kamireddy, Bharat Ravulapati, Kari Babski-Reeves, David Close, Surya Durbha, “ **Intelligent self-describing controllable Elecrtic power grid**”, NSF sponsored The 2007 post-Katrina Forum, “Gulf States-Alliances: Network Science and Recovery”, 19-21 August 2007, Biloxi, MS.
- [P17]. Shireesha R Methuku, *Anurag K Srivastava* and Noel N Schulz, “Comprehensive Modeling of Biomass based generation System in MATLAB/Simulink”, Mississippi Biofuels Conference, Mississippi State, MS, August 27th, 2007
- [P18]. Ankush Saran, Chengfeng Zhang, *Anurag K. Srivastava*, Noel N. Schulz and Jimena Bastos, “**Hardware in the Loop Simulation Using Overcurrent Relay and RTDS**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P19]. Sunil Palla, *Anurag Srivastava* and Noel N Schulz, “**Hardware-in-the-loop Simulation for Protective Relay using National Instrument Systems**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P20]. *Anurag Srivastava*, Noel N. Schulz, Bharath Ravulapati, “**Developing automated corrective and preventive actions using sensitivity analysis**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P21]. Srinath Kamireddy, Noel N Schulz and *Anurag K Srivastava*, “**Comparison of Power System State Estimation Algorithms in Extreme Contingencies**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P22]. D. Khaniya, *Anurag K. Srivastava* and Noel N. Schulz, “**Voltage Stability Analysis Using Continuation Power flow**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P23]. Bidur Raj Gautam, Noel N. Schulz and *Anurag K. Srivastava*, “**Reconfiguration of Distribution Power System using Survivability Index**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P24]. Aarthi Asok Kumar, *Anurag K Srivastava* and Noel Schulz, “**Impact of Biomass Based Distributed Generation with Energy Storage on Transient Stability of the grid**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P25]. Abhilash R Masannagari, *Anurag K Srivastava* and Noel Schulz, “**Optimizing the Sizing and Siting of DG to Maximize the Grid Stability**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P26]. Vamsi K Vijapurapu, Noel N Schulz, and *Anurag K Srivastava*, “ **Hardware In the Loop test of Differential Relay using RTDS**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P27]. Vinoth Mohan, Noel N. Schulz and *Anurag K. Srivastava*, “**Common Information Model for Sensors**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P28]. Minglan Lin, *Anurag K. Srivastava*, Noel N. Schulz, “**Static Voltage Stability Assessment for AC/DC Systems**”, IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL.
- [P29]. *Anurag K. Srivastava* and Noel N. Schulz, “**Clean Energy Research Activities at Mississippi State University**”, Clean technology and Sustainable Industries Conference and Trade Show, Boston, MA, June 1-5, 2008
- [P30]. Venkata Krishna Pendurthi, Stephanie Doane, Noel Schulz and *Anurag Srivastava*, “**Cognitive Engineering Analysis of a Decision Support System for Real-Time Adaptive Power System Reconfiguration**” ASNE Advanced Naval Propulsion Symposium, December 15-16, 2008, Arlington, Virginia

- [P31]. Krishnanjan G. Ravikumar, Noel N. Schulz and Anurag K. Srivastava, “**Investigation of Communication Options for Real Time Power System Distributed Simulation**”, Power systems Conference and Exposition (PSCE), March 15-18, 2009, Seattle, Washington
- [P32]. V. M. Mohan, Anurag K. Srivastava, and Noel. N. Schulz, “**Advancements in Power System Monitoring and Inter-operability**” Power systems Conference and Exposition (PSCE), March 15-18, 2009, Seattle, Washington
- [P33]. Krishnanjan G. Ravikumar, Noel N. Schulz, and Anurag K. Srivastava, “**Investigation of Communication Options for Real Time Power System Distributed Simulation**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 26-27, 2009, Mississippi State University, Mississippi State, MS, USA
- [P34]. R. Arghandeh, N. Schulz, A. Srivastava, “**Reconfiguration of Shipboard MVDC Network**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 26-27, 2009, Mississippi State University, Mississippi State, MS, USA
- [P34]. Ankush Saran, Anurag K. Srivastava, Noel N. Schulz, “**Modeling and Simulation of Shipboard Power System Protection Scheme**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 26-27, 2009, MSU, Mississippi State, MS, USA
- [P35]. Padmavathy Kankanala, Suresh C. Srivastava, Anurag K. Srivastava and Noel N. Schulz, “**Optimal Control of Voltage and Power in A Multi-Zonal Shipboard MVDC Power System**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 26-27, 2009, Mississippi State University, Mississippi State, MS, USA
- [P36]. Shilpa Toppo, D. Khaniya, Anurag K. Srivastava and Noel N. Schulz, “**Voltage Stability Analysis of Distribution System Using Three Phase Continuation Power Flow**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 26-27, 2009, Mississippi State University, Mississippi State, MS, USA
- [P37]. Seetharama R Rudraraju, Anurag K Srivastava, Suresh C Srivastava, Noel N Schulz, “**Small Signal Stability of a MVDC Power System**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 26-27, 2009, MSU, Mississippi State, MS, USA
- [P38]. Vinoth Mohan, Anurag Srivastava, Noel Schulz, “**Extension of CIM for shipboard power systems**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 26-27, 2009, Mississippi State University, Mississippi State, MS, USA
- [P34]. Qinghua Huang, Noel N. Schulz, Anurag K. Srivastava, Tomasz Haupt, “**Distributed State Estimation with PMU using Grid Computing**”, IEEE PES General Meeting, Calgary, Canada, July 2009

Invited Talks/ Presentations

- [ITP1]. A.K. Srivastava, ‘**Voltage Collapse Contingency Screening and Power Grid Vulnerabilities**’, ECE Distinguished Speaker Seminar Series, Department of ECE, Illinois Institute of Technology, Chicago, USA, 15th April, 2005.
- [ITP2]. A. K Srivastava, “**Marketing yourself in Job market**”, Invited lecture, ECE8990, Power system Seminar, Electrical and computer engineering department, Mississippi State University, Mississippi State, MS, USA, 11th April, 2006.
- [ITP3]. A.K. Srivastava, ‘**Voltage Collapse Contingency Screening**’, IEEE invited lecture seminar series, Electrical Engineering department, IIT, Kanpur, India, 5th July, 2006.
- [ITP4]. A.K. Srivastava, ‘**Power System Research Activities at Mississippi State University**’, ECE Distinguished Speaker Seminar Series, Department of ECE, Concordia University, Montreal, Canada, 31st August, 2007.
- [ITP5]. Anurag Srivastava, “**Self-Describing and Controllable Power Grid**”, PMU application user group meeting, Entergy, New Orleans, LA, September 19th, 2007.

- [ITP6]. Noel N. Schulz, *Anurag K Srivastava*, Jimena Bastos, Sarika Khushalani, Jignesh Solanki, Sujatha Kotamarthy, Qiuli Yu, Yamilka Baez-Rivera, Hymiar Hamilton, Olu Amoda, Sandhya Sankar, Minglan Lin, Dina Khaniya, and Bidur Gautum, “**Adaptive Protection and Stable Reconfiguration to Increase the Survivability of the All-Electric Ship System**”, Electric Ship Research and Development Consortium (ESRDC) Workshop, May 7-8, 2007, Massachusetts Institute of Technology, Boston, MA, USA
- [ITP7]. Herbert Ginn III, Noel Schulz, Stan Grzybowski, *Anurag Srivastava* and Jimena Bastos, “**Advances in Materials Characterization and Power Conversion, Distribution and Management for Electric Ship Power Systems**”, ASNE, October, 2006, Washington DC.
- [ITP8]. Kari Babski-Reeves and *Anurag K. Srivastava*, “*Semantics-driven knowledge discovery system for wide area monitoring of the electric power grid*”, Project review, Department of Homeland Security and Oak Ridge National Laboratory, Jackson, MS, September 17th, 2008
- [ITP9]. Srinath Kamireddy, Vinoth Mohan, *Anurag K Srivastava* and Noel N Schulz, “**Improved State Estimation and Development of Real Time Wide Area Monitoring and Control Test Bed**”, North American Synchro-phasor Initiative, Charlotte, NC, October 16-17, 2008
- [ITP10]. Q. Hunag, K. Ravikumar, Y. Zhang, *Anurag K Srivastava*, Noel N Schulz, “**Mississippi State University research activities related to MURI project**”, November 24th, 2008, Philadelphia, PA
- [ITP11]. Soumya K Srivastava, *Anurag K Srivastava*, Adrienne Minerick and Noel N Schulz, “International students’ challenges in U.S. graduate schools”, MAIE Annual Conference, Mississippi State University, MS (02/09)
- [ITP12]. *Anurag K Srivastava*, “Application of Real Time Modeling and Simulation in Power System Research”, Central power research institute (CPRI), Bangalore, India, May 15th, 2009
- [ITP13]. *Anurag K Srivastava*, “Engineering the Future Power Grid with Increased Security Measures”, Indian Institute of Science, Bangalore, India, May 15th, 2009

Professional Service

- ✓ Judge, Conrad Spirit of Innovations Award, 2009
- ✓ Session Chair, System Identification and Model Predictive Control, IEEE Power Engineering Society General Meeting, Calgary, July 26-30, 2009
- ✓ Judge, Student Poster Contest, IEEE PES General Meeting, Calgary, July 26-30, 2009
- ✓ Judge, Physical Science Oral Presentation, Graduate Student Association, Mississippi State University, April 3rd, 2009
- ✓ Judge, Mississippi Science Fair, Mississippi State University, March 26th, 2009
- ✓ Session Co-Chair, Power System Dynamic Performance I, Power System Conference and Exposition (PSCE), Seattle, WA, March 15-18th, 2009
- ✓ Session Chair, Power System Dynamic Performance II, Power System Conference and Exposition (PSCE), Seattle, WA, March 15-18th, 2009
- ✓ Student Program Chair and member of Organizing Committee, North American Power Symposium, NAPS 2009, Mississippi State, MS
- ✓ Session Chair, Voltage Stability and Contingency Analysis, North American Power Symposium (NAPS), Calgary, Canada, September 28th to 30th, 2008
- ✓ Judge, Student paper competition, North American Power Symposium (NAPS), Calgary, Canada, September 28th to 30th, 2008
- ✓ Secretary, NAPS steering committee, 2008
- ✓ Chair, student hotel support program, IEEE PES T&D conference (Largest conference in Power Engineering Society), April 20-24, 2008, Chicago, IL
- ✓ Judge, Graduate Student Association Symposium, Mississippi State Univ., April 4th, 2008

- ✓ Session Chair, Control of Power System Components, NAPS, 2007, September 30th – October 2nd, Las Cruces, New Mexico, USA
- ✓ Judge, Student paper competition, NAPS 2007, Sep. 30-Oct. 2nd, Las Cruces, NM, USA
- ✓ Judge, Student poster competition, PES 2007, June 24-28, Tampa, FL, USA
- ✓ Judge, Student presentation, ESCAPE, March 2-3, MSU, Mississippi State, MS, USA
- ✓ Judge, Mississippi Region V Elementary and Secondary Science and Engineering fair, February 28-March 1, 2007, Mississippi State, MSU
- ✓ Judge, Student paper competition, PSCE 2006, Oct. 29-Nov. 1, Atlanta, Georgia, USA
- ✓ Session chair, Distributed Generation And Renewable Energy I, NAPS 2006, Sep. 17-19, Carbondale, Illinois, USA
- ✓ Judge, Student paper competition, NAPS 2006, Sep. 17-19, Carbondale, Illinois, USA
- ✓ Judge, Student poster competition, IEEE PES annual Meeting, Montreal, Quebec, Canada, June 2006
- ✓ Judge, Student poster competition, IEEE Transmission & Distribution Conference, Dallas, Texas, May 2006
- ✓ Judge, Student poster competition, ISAP, Washington DC, November 2005
- ✓ Judge, Mississippi Region V Elementary and Secondary Science and Engineering fair, MSU (03/06)
- ✓ Judge, Ethics competition, SECON, Memphis, (04/06)
- ✓ Chaired electrical engineering, computer and embedded system engineering and general engineering track at IEEE South East Conference, Memphis, March 30th-April 2nd, 2006
- ✓ Judge, Mississippi State Science and Engineering fair, MSU (04/06)

Conference/ Workshop/ Tutorial Organized

- ✓ *PERL Seminar, Fall 2008, ECE Department, Mississippi State, MSU*
- ✓ *MATLAB workshop, Fall 2008, ECE Department, Mississippi State, MSU*
- ✓ *A.K. Srivastava 'Labview 101', Department of electrical and computer engineering, Mississippi State University, January, 2006*
- ✓ *A.K. Srivastava 'Labview workshop and hands on experience', Department of electrical and computer engineering, Mississippi State University, January, 2006*
- ✓ *Lab view workshop, Heath Causey, Department of electrical and computer engineering, Mississippi State University, March 29th, 2007*
- ✓ *SEL workshop, Mike Collum, Department of electrical and computer engineering, Mississippi State University, May 21, 2007*

Awards/ Honors/ Scholarships

- ✓ Best paper prize award, "An Effort to Optimize Similar Days Parameters for ANN Based Electricity Price Forecasting", Energy Systems Committee, Industrial and Commercial Power Systems Department, Industry Application Society, The Institute of Electrical And Electronic Engineers. (09)
- ✓ Technical Committee working group recognition award, working group on multi-agent systems, IEEE PES Power system analysis, computing and economics committee. (08)
- ✓ Young engineer award, Young Engineer Poster Competition (YPC), IEEEJ2006 Annual meeting, University of the Ryukyus, Japan. (06).
- ✓ WHO'S WHO in America, (06, 08)
- ✓ WHO'S WHO in the Midwest, 33rd edition (06)

- ✓ WHO'S WHO of emerging leaders in American science and Engineering, 1st edition (11/06)
- ✓ WHO'S WHO in Science and Engineering, 9th edition (06/06)
- ✓ WHO'S WHO in Engineering Education (06/06)
- ✓ Certificate of appreciation for outstanding service as a judge during the Mississippi region V Science and Engineering fair, Bagley college of Engineering, MSU (03/06)
- ✓ WHO'S WHO in Professional in Research and Science (11/05)
- ✓ WHO'S WHO in America, 60th edition (09/05)
- ✓ Best Teaching Assistant Award, Star of the Month, Student Government Assoc., IIT, Chicago (04/05)
- ✓ Best Student, Star of the Month, Nominee, IIT, Chicago (04/05)
- ✓ President and founder of Student Employee Association, IIT, Chicago (03/05)
- ✓ Certificate of highest standards of academic achievement from Graduate College, IIT, Chicago (10/05)
- ✓ Featured in university newsletter 'Contact' and university home page, IIT Chicago (04/05)
- ✓ National Collegiate Engineering Award, United States Achievement Academy (04/05)
- ✓ Clinton Stryker Distinguished Service Award, Nominee, IIT, Chicago (04/05)
- ✓ WHO'S WHO among students in American Universities and Colleges (05/04)
- ✓ WHO'S WHO of Asian American (09/04)
- ✓ Appreciation certificate from IIT International Center, Chicago for Volunteer work (09/03 and 09/04)
- ✓ Best Teaching Assistant Award, Nominee, Office of student activities, IIT, Chicago (10/03 and 10/04)
- ✓ Dean's tuition Scholarship, IIT, Chicago (08/01)
- ✓ Research fellowship, Asian Institute of Technology, Bangkok, Thailand (02/00 and 03/01)
- ✓ University Grant Commission (UGC) Scholarship, IT, BHU, Varanasi, India (08/97-08/99)
- ✓ Coordinator for National Service Scheme (NSS), HBTI, Kanpur, India (08/95-08/96)
- ✓ Leadership award for showing extraordinary performance in managing and coordinating the events HBTI, Kanpur, India (04/94, 04/95, 04/96)
- ✓ National Merit Scholarship, for academic excellence, HBTI, Kanpur, India (08/90 – 08/97)
- ✓ Institute Merit Scholarship, HBTI, Kanpur, India (08/93)

Conference/Talk/Training/Tours Attended

- ✓ OSisoft PI Server user meetings, New Orleans, LA, August, 2009
- ✓ IEEE Power Engineering Society, General Meeting, Calgary, Canada, July, 2009
- ✓ Electric Ship Research and Development Consortium (ESRDC) Workshop, Mississippi State University, Mississippi State, MS, USA, May 26-27, 2009
- ✓ ASEE annual conference and exposition, Austin, Texas, June, 2009
- ✓ VTB workshop, Mississippi State University, Mississippi State, MS, May 29th, 2009
- ✓ Visit to Central power research institute (CPRI), Bangalore, India, May 15th, 2009
- ✓ Visit to Indian Institute of Science (IISc), Bangalore, India, May 15th, 2009
- ✓ IEEE Electric Ship Technologies Symposium (ESTS), Baltimore, Maryland, USA, 20-22 April 2009
- ✓ Energy Workshop, Mississippi State University, April 15th, 2009
- ✓ Power System Conference and Exposition (PSCE), Seattle, WA, March 15-18th, 2009

- ✓ Mississippi Association of International Educators Conference, Mississippi State University. Feb 12 & 13, 2009
- ✓ Multiple University Research Initiative, MURI Review, Drexel University, November 23-24th, 2008
- ✓ Project review, SERRI project, Department of homeland Security, Oakridge National Lab, Jackson, MS, September 17th, 2008
- ✓ North American Synchro-phasor Initiative, Charlotte, NC, October 16-17, 2008
- ✓ Visit to Illinois Institute of Technology, Chicago, October 4th, 2008
- ✓ North American Power Symposium (NAPS), Calgary, Canada, September 28th to 30th, 2008
- ✓ IEEE Power Engineering Society General Meeting (PES GM), Pittsburgh, July 20-24th, 2008
- ✓ ASEE annual conference and exposition, Pittsburgh, PA, June 22–25, 2008
- ✓ Summer Simulation Conference (SummerSim), Edinburgh, Scotland, June 16-19, 2008.
- ✓ Clean technology and Sustainable Industries Conference and Trade Show, Boston, MA, June 1-5, 2008
- ✓ Effective classroom management, Center for Teaching and Learning, February, 2008
- ✓ Introduction to 'Mycourses', August, 2008
- ✓ International travel safety program, Office of Research and Economic Development, May 2008
- ✓ ESRDC meeting, Austin, Texas, May 20-21st, 2008
- ✓ IEEE PES Transmission and Distribution Conference and Exposition, April 21-24, 2008, Chicago, IL
- ✓ ABET policies for new faculty, McCain, MSU, November 26th, 2007
- ✓ RTDS workshop and training at university of Missouri, Rolla, November 13-14, 2007
- ✓ Common Information Model (CIM) Users Group Meeting, Austin, Texas, October 23rd-October 26th, 2007
- ✓ Teaching with power point effectively, The center for teaching and learning, October 11, 2007
- ✓ North American Power Symposium, NAPS, Las Cruces, NM, September 30th –October 2nd, 2007
- ✓ Career Focus Session' ECE department meeting with employers, McCain, Mississippi State University, September 25th, 2007
- ✓ 'Ethical responsibilities and making better masters program', ECE department meeting with employers McCain, Mississippi State University, September 25th, 2007
- ✓ Phasor and phasor application meeting, New Orleans, LA, Entergy, September 18-19th, 2007
- ✓ NSF/ DoE/ DoHS SBIR workshop, CAVS, October 9th-10th, 2007
- ✓ Montreal University, Montreal, Canada, 31st August, 2007
- ✓ Turnitin workshop, Mitchell Library, Mississippi State University, August 29th, 2007
- ✓ NSF sponsored post-Katrina Forum conference, "Gulf States-Alliances: Network Science and Recovery", 19-21 August 2007, Biloxi, MS.
- ✓ Southern Mississippi Electric Power Association, July 26th, 2007
- ✓ SummerSim, San Diego, CA, July 16-18, 2007
- ✓ Southern Power Visit, July 13, 2007
- ✓ CAPS, Florida State University Visit, June 29th, 2007
- ✓ IEEE PES annual meeting, Tampa, FL, June 24-28, 2007
- ✓ Electric Ship Technological Symposium (ESTS), Washington DC, May 21-24, 2007
- ✓ ESRDC meeting, MIT, Boston, MA, May 6-8, 2007
- ✓ Biomass Conference, Choctaw, MS, April 16-18, 2007
- ✓ AREVA visit, Seattle, WA, April 6, 2007
- ✓ Formulating a Teaching Philosophy, March 22, 2007, MSU
- ✓ NSF CAREER award panel, March 21, 2007, MSU
- ✓ ESCAPE conference, March 2-3, 2007, MSU

- ✓ Developing a teaching Portfolio, March 1, 2007, MSU
- ✓ Mississippi Science and Fair, February 28- March 1, 2007, MSU
- ✓ Cheating and WebCT, February 22, MSU
- ✓ Educational Workshop, Santa Fe, New Mexico, February 2-3, 2007
- ✓ Siemens and OSI Visit, January 15, 2007, Minneapolis, MN
- ✓ NSF Day, January 11, 2007, MSU
- ✓ Felder and Brent Teaching Workshop, January 4-5, 2007, MSU
- ✓ Power System Conference and Exposition (PSCE) 2006, Oct. 29-Nov. 1, Atlanta, GA, USA
- ✓ North American Power Symposium, NAPS 2006, Carbondale, Illinois, USA (09/06)
- ✓ IEEE/PES 2006 Annual Meeting, Montreal, Quebec, Canada (06/06)
- ✓ National Science Foundation, Washington DC (06/06)
- ✓ Electric Ship Research and Development Consortium Annual meeting, Columbia, SC (06/06)
- ✓ IEEE/PES Transmission and Distribution Conference/ Exposition, Dallas, Texas, (05/06)
- ✓ National Instrument Labview 8.0 real-time training, Golden, Colorado (04/06)
- ✓ Workshop for public law related to submitting proposal, “Grants.Gov”, sponsored by Sponsored Programs Administration, MSU (03/06)
- ✓ VTB Workshop, ECE Department, MSU (01/06)
- ✓ IEEE Region 3 South East Conference, SECON, Memphis, TN (04/06)
- ✓ Electric Ship Research and Development Consortium Workshop, Tallahassee, FL (02/06)
- ✓ IEEE South East Conference, Memphis, TN, USA (04/06)
- ✓ National Instrument Labview intermediate training I and II, Huntsville, Alabama (11/05)
- ✓ National Instrument Labview real-time training, Houston, Texas (12/05)
- ✓ National Instrument Symposium, Huntsville, Alabama (12/05)
- ✓ IEEE/PES 2005 General Meeting, San Francisco, CA, USA (06/05)
- ✓ TVA Substation Tour, West point, Mississippi (11/05)
- ✓ Deborah Tierce, “Laugh, Love and Leave a Legacy”, Staff Advisory Council, MSU, (11/05)
- ✓ Brown bag teaching seminar, Mississippi State University, (10-11/05)
- ✓ ECE/IE tech mentor cluster meeting, Mississippi State University (10/05)
- ✓ Introduction to WebCT, ITS workshop, Mississippi State University, (12/05)
- ✓ New faculty tour, Mississippi State University, (10/05)
- ✓ New faculty development session, Mississippi State University (10/05)
- ✓ Intelligent system application to Power System, Washington DC, USA (11/05)
- ✓ COMED Substation and Control center Tour, Chicago, Illinois (04/ 04)
- ✓ IEEE/PES 2002 Summer Meeting, Chicago, IL, USA (06/02)
- ✓ American power conference, Chicago, IL, USA (04/02)
- ✓ North American Power Symposium (NAPS), Texas, USA (10/01)

Professional Affiliations

Editorial Board

- ✓ International Journal on Power System Optimization, Serials Publications
- ✓ International Journal of Energy and Environment, International Energy and Environment Foundation (IEEF)

Reviewer

Journal and Conferences:

- ✓ IEEE Transaction on Power System
- ✓ IEEE Power Engineering Society Letters

- ✓ IEEE Transaction on Power Delivery
- ✓ IEEE Transaction on Energy Conversion
- ✓ IEEE Transaction on Industrial Electronics
- ✓ IEE Proc. on Generation, Transmission & Distribution
- ✓ International Journal of Modeling and Simulation
- ✓ International Journal of Energy Technology and Policy
- ✓ International Journal of Power and Energy Systems
- ✓ International Journal of Global Energy Issues
- ✓ European Journal of Control
- ✓ International Journal of Applied Energy
- ✓ International Journal of Soft Computing
- ✓ Journal of Advanced Research in Scientific Computing
- ✓ IEEE Transactions on Education
- ✓ International Journal of Engineering Education
- ✓ MELECON 2004, Croatia
- ✓ IEEE South East Conference, Memphis, TN, USA
- ✓ ASEE Southeastern Section Annual Meeting, 2006
- ✓ SummerSim, San Diego, CA, 2007
- ✓ Intelligent System Applications to Power Systems, Taipei, Taiwan, 2007
- ✓ North American Power Symposium, Las Cruces, NM, USA, 2007
- ✓ The Applied Power Electronics Conference and Exposition, Washington DC, 2008
- ✓ International Symposium on Industrial Electronics, Cambridge, UK, 2008
- ✓ North American Power Symposium, Calgary, Canada, 2008
- ✓ The Applied Power Electronics Conference and Exposition, Washington DC, 2009
- ✓ ASEE annual conference and Exposition, 2009
- ✓ IEEE PES General Meeting, Calgary, Canada, 2009
- ✓ Intelligent System Applications to Power Systems, Brazil, 2009
- ✓ The Applied Power Electronics Conference and Exposition, 2010

Book:

- ✓ John Wiley and Sons, Book proposals

External Examiner:

- ✓ Ph.D. Thesis, IIT Kanpur, India

Research Proposal Reviewer:

- ✓ Department of Energy
- ✓ National Research Fund, Qatar

Member/ Affiliation

- IEEE (Student Member, 2000-2005, Member, 2005-2009, Senior Member, 2009-present)
 - IEEE Power Engineering Society (2002-present)
 - Power Engineering Education Committee (2006-present)
 - Student Meetings Subcommittee (Member, 2007-present, Secretary, 2009)
 - Power Engineering Career Promotion Subcommittee (Member: 2007-present, Vice Chair: 2009)
 - Power System Analysis, Computing, and Economic Committee (2005-present)
 - Intelligent Systems Subcommittee (2006-present)

- Multi-Agent Systems Task Force (2006-present)
- Intelligent Control Systems Task Force (2006-present)
- Modern Heuristic Task Force (2008-present)
- Power System Dynamic Performance Committee (2004-present)
 - Power System Stability Subcommittee (2004-present)
 - Voltage Stability Focus Group (2004-present)
- Transmission and Distribution Committee (2006-present)
 - Distribution Subcommittee (2006-present)
 - Distributed Generation Integration (2007-present)
 - Transmission Security Subcommittee (2006-present)
- Energy Development & Power Generation Committee (2009-present)
 - Energy Development Subcommittee (2009-present)
 - Distributed Generation and Energy Storage Working Group (2009-present)
- IET (New name for IEE, UK) (2002-present)
- ASEE (2005-present)
- Sigma Xi Honor Society (2004-present)
- Eta Kappa Nu Honor Society (2004-present)
- POWERGLOBE (2000-present)
- Power Engineering Faculty at American Universities (2005-present)
- North American Synchro Phasor Initiative, Performance and Standard Task Team (2006-present)