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## I. Professional Profile

- Research
  - More than 10 years of research experience in Power, Energy and Smart Grid
  - Graduated 24 M.S. students and have 9 current graduate students (3 M.S. + 6 Ph.D.)
  - Graduate Committee Member for additional 10 completed degree (2 Ph.D. + 8 M.S.) and 1 Ph.D. pending degree
  - Mentored several undergraduates including international students for research experience
  - Served as PI, co-PI, researcher for research funding/grant from Power System Engineering Research Center (PSERC), Office of Naval research, Department of Energy, Department of Homeland Security and National Science Foundation
  - Published more than 75 peer-reviewed research articles including a book and best paper award by IEEE Industry Application Society
- Teaching
  - Developed 3 new course material and 1 Lab manual
  - Taught 7 graduate courses, 2 undergraduate and 3 direct individual studies in last 5 year
  - Significantly improved 'student evaluation for teaching as Instructor' over the years and received Best Teaching Assistant Award in the past
- Service
  - Chair, Career Promotion Subcommittee within Power and Energy Society, IEEE
  - Secretary, Student Activities Subcommittee within Power and Energy Society, IEEE
  - Webmaster, Distribution generation and energy storage subcommittee, Energy Development and Power Generation Committee, IEEE
  - Liaison for Awards Committee, Distribution generation and energy storage subcommittee, Energy Development and Power Generation Committee, IEEE
  - Voting member of NIST Smart Grid Interoperability Panel and very active member of several IEEE technical committees
  - Faculty co-advisor for Eta Kappa Nu (HKN), Mississippi State University (2005-2010)
  - Served as a Judge for students paper/posters in more than 20 conferences
  - Chaired technical sessions for more than 12 International conferences
  - Student program chair and member of organization committee, North American Power Symposium (NAPS), 2009
  - Secretary, NAPS Steering Committee, 2008
  - Working group recognition award by IEEE Power and Energy Society
  - Editorial board member of 2 journals and reviewer for more than 30 journal/conferences
- Other
  - Senior member of IEEE
  - Consultant, Quanta Tech.
  - Certificate of highest standard for academic achievement during Doctoral Studies
  - External thesis Examiner for IIT, India; Multimedia University Malaysia and Institute of Engineering and Technology, Lucknow, India
  - Young Engineer Award, IEEE, 2006
  - Reviewer, Smart Grid Grants for Department of Energy
  - Reviewer, National Science Foundation
  - Listed in Who's Who in America, Who's Who in Midwest, Who's Who in Science and Engineering, Who's Who in Engineering Education, Who's Who in Professional in Research and Science, Who's Who of Asian American for several years

## *II. Research/ Teaching Interest*

- Smart grid
  - Stability, security and vulnerability analysis
  - Real time modeling and simulation
  - Intelligent control application
  - Distributed generation and micro-grid
  - Decision support and situational awareness using phasor data
  - Interoperability and data integration
- Operation, control and energy management of electric shipboard power system,
- Power system restructuring and electricity market
- Application of computational intelligence and control theory application in power system
- Engineering education

## *III. Work Experience*

**Assistant Professor**, Washington State University, Pullman, WA, USA, (08/2010 - present)

- Setting up new real time modeling and simulation laboratory
- Responsibilities include development and implementation of several new projects related to smart grid real time modeling and simulation, physical and cyber security, wide area monitoring, smart grid education funded by PSERC, Department of Energy (DoE), NSF and local Industry
- Research, analysis, student advising, and senior design projects

**Assistant Research Professor**, Mississippi State University, Mississippi State, Mississippi, USA, (09/2005- 08/2010)

- Participated in the research, analysis, student advising, development and implementation of several projects related to shipboard power system, distributed generation, cyber-security, smart grid demonstration lab, wide area monitoring and real time modeling and simulation funded by Office of Naval Research (ONR), Department of Energy (DoE), Department of Defense (DoD), Department of Homeland Security (DoHS).
- Taught several graduate courses and co-taught undergraduate courses

**Graduate Research Assistant**, Illinois Institute of Technology, 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 severe 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, accurate and to 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, Chicago
- 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)**

- Assisted 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 efficiently

## *IV. Education Qualification*

**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. Nagaraja

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*

## V. Students Graduated/ Advising

### VI.A. Current Graduate Students (Washington State University)

- [1]. Ramon Zamora, "*Operation and control of micro-grid with uncertainty*", Ph.D., August 2012 (\***Recipient of Bagley Graduate Fellowship at Mississippi State University**)
- [2]. Farshid Shariatzadeh, "*Real time hardware implementation of power system control*", Ph.D., August 2013
- [3]. Saugata Biswas, "*Phasor based voltage stability analysis*", Ph.D., December 2013
- [4]. Krishnanjan G Ravikumar, "*Phasor based control*", Ph.D., August, 2014
- [5]. Timothy Ernster, "*Cybersecurity of power system*", M.S., August 2012
- [6]. Shreya S Kodnadu, M. S., August 2012
- [7]. Yusuf Surur, M.S., December 2012

### VI.B. Graduate Committee Member (Washington State University)

- [8]. Jiawei Ning (Alex)
- [9]. Ji Tuo
- [10]. Ming Meng
- [11]. Shaotong Guo

### VI.C. Undergraduate Senior Design Project (Washington State University)

- [12]. Advisor, "Feeder Voltage Optimization", Supported by Tacoma Power
- [13]. Involved with "Synchrophasor Wide Area Control System", Supported by Schweitzer Engineering Laboratories, Inc.,

### VI.D. Current Graduate Students (Mississippi State University)

- [1]. Yamilka Baez-Rivera, "*Control of Multigenerators for the All-Electric Ship*", (Co-advising with Dr. Noel Schulz) Ph.D., May 2011

### VI.E. Students Graduated (Mississippi State University)

- [1]. Minglan Lin, "*Static and Dynamic Voltage Stability Assessment of Hybrid AC/DC Power Systems*", (Co-advised with Dr. Noel Schulz), Ph.D., December 2010
- [2]. Qinghua Huang, "*Power System Distributed State Estimation with Phasor Measurement Units*", (Co-advised with Dr. Noel Schulz), Ph.D., December 2010
- [3]. Shilpa Toppo, "*Three phase continuation power flow based on current injection algorithm for distribution systems*", M.S., December 2010 (Doing Ph.D. at Mississippi State University)
- [4]. Ram Mohan Reddi, "*Development of smart grid test bed for operation, control and cyber-security analysis*", M.S., December 2010

- [5]. Doug Bowman, "**Impact of Wind farm with storage on Electric Grid**", (Working with Southwest Power Pool, Arkansas), M.S., December 2010
- [6]. Mounika Kurra, M.S. non-thesis, December 2010
- [7]. Venkata Surya Subrahmanyam, M.S., Non-thesis, December 2010 (Working with Entergy, Jackson, MS)
- [8]. Sunil Palla, "**Development of overcurrent relay model and power system simulator using national instruments devices in real-time**", M.S., December 2008. (**\*Best Graduate Research Assistant Award**) (Working with New England ISO, Massachusetts)
- [9]. Bharath Ravulapati, "**Development of corrective actions for higher order contingencies**", M.S., December 2008. (Working with ERCOT, Texas)
- [10]. Abhilash Reddy Masannagari, "**Optimizing the size and location of distributed generators to maximize the grid stability**", M.S., December 2008. (Working with Entergy, Mississippi)
- [11]. Aarthi Asok Kumar, "**Technical and economic impacts of distributed generators and energy storage devices on the electric grid**", M.S., December 2008. (Working with LCG Consulting, California)
- [12]. Dina Khaniya, "**Development of three phase continuation power flow for voltage stability analysis of distribution systems**", M.S., December 2008. (Doctoral student at University of South Carolina)
- [13]. Srinath Kamireddy, "**Comparison of state estimation algorithms considering phasor measurement units and major and minor data loss**", M.S., December 2008. (Co-advised with Dr. Noel Schulz) (Working with Entergy, Mississippi)
- [14]. Chenfeng Zhang, M.S., Non thesis, December 2008 (Working with Texas Instruments, Indiana)
- [15]. Bharath Annabathina, M.S., Non thesis, December 2008. (Working with New York ISO, New York)
- [16]. Krishnanjan Gubba Ravikumar, "**Distributed simulation of power systems using Real Time Digital Simulator**", M.S., August 2009. (Co-advised with Dr. Noel Schulz) (**\*Best Graduate Research Assistant Award**) (Working with Schweitzer Engineering Lab, Washington)
- [17]. Bala Ranganath Kondaveeti, M.S., Non thesis, August 2009. (Working with Entergy, Jackson, MS)
- [18]. Ankush Saran, "**Real Time Modeling, Simulation and Validation of Protective Relays**", M.S., December 2009. (Ph.D. student at Mississippi State University)
- [19]. Vinoth Mohan, "**Advancements in Power System Monitoring and Inter-Operability**", (Co-advised with Dr. Noel Schulz) (Working with AREVA, Washington), M.S., December 2009
- [20]. Padmavathy Kankanala, "**Optimal Control of Voltage and Power in MVDC Multi-Zonal Shipboard Power System**", (Co-advised with Dr. Noel Schulz), M.S., December 2009 (Currently a Ph.D. student at Kansas State University)
- [21]. Seetharam Rudraraju, "**Small Signal and Transient Stability Analysis of MVDC Shipboard Power System**", (Co-advised with Dr. Noel Schulz), M.S., December 2009 (Working with OSI, Minneapolis, MN)
- [22]. Venkata Pendurthi, "**Uncertainty in Measurements and Cognitive Engineering Analysis of a Decision Support System for Power System Reconfiguration**", (Co-advised with Dr. Noel Schulz), M.S., December 2009 (Working with Entergy, Jackson, MS)
- [23]. Shireesha Methuku, "**Modeling of the Biomass Power Generation and Techno-Economic Analysis**", M.S., December 2009 (Working with OSI, Minneapolis, MN)

- [24]. Sugam Patel, M.S., Non thesis, March 2010. (Working with American Electric Power, Texas)

#### **VI.F. Graduate Committee Member for Completed Degree (Mississippi State University)**

- [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]. Bidur Raj Gautam, M.S., August 2008
- [6]. Vamsi Krishna Vijapurapu, M.S., December 2008
- [7]. Qiuli Yu, Ph.D., December 2008
- [8]. Charles Ford, M.S., August 2009
- [9]. Ameesh Suthar, M.S., August 2009
- [10]. Anil Kondabathini, Ph. D., December 2009

#### **VI.G. Graduate Committee Member for Pending Degree (Mississippi State University)**

- [1]. Derick Cherry, Ph. D.

#### **VI.H. Undergraduate Research Mentoring (Mississippi State University)**

- [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 V, Indian Institute of Technology, Kharagpur, India, Summer 2009
- [5]. Reginald Roby, Mississippi State University, B.S. Student, 2010

#### **VI.I. Graduate Thesis External Examiner**

- [1]. Indian Institute of Technology, Kanpur, India
- [2]. Indian Institute of Technology, Bombay, India
- [3]. Institute of Engineering and Technology, U.P. Technical University, Lucknow, India
- [4]. Faculty of Engineering and Technology, Multimedia University, Malaysia

## **VI. Teaching Experience**

#### **VI.A. Development of Course and Teaching Material**

- Developed course material for 1 undergraduate course at Washington State University
- Developed 3 new graduate courses integrating current and conventional topics at Mississippi State University.
- Developed 6 new experiments for 'Fundamentals of Power Systems' and **documented new lab manual** at Illinois Institute of Technology

#### **VI.B. Detailed List of Courses Taught at WSU**

EE 361: Power System Introduction, Spring 2011

#### **VI.C. Detailed List of Courses Taught at MSU**

Course Number	Course Name	Semester
ECE8990	Power system economics and deregulation (PSED)	Spring 2006 and Fall 2008
ECE 8990	Power system operation and control (PSOC)	Fall 2006 and Fall 2009

ECE8990	Electric ship power system (ESPS)(partial)	Fall 2006
ECE8990	Power system modeling and simulation (PSMS) (partial)	Spring 2007
ECE8623	Power system stability, security and vulnerability (PSSSV)	Fall 2007
ECE4613/6613	Power system transmission (PST)(partial)	Fall 2008
ECE7000	Directed Individual Study	Spring/ Fall 2008

## VII. Research Funding/Grants

RG: Research Grant, EG: Educational Gant, TG: Travel Grant, DF: Donation Funding

### VIII.A. Current Funding/Grant Involvement at WSU

- [RG1]. PI, Computational Needs for the Next Generation Electric Grid, Department of Energy, through Vanderbilt University, \$5,000, (10/2010-06/2011)
- [RG2]. PI, Testing and Validation of Phasor Measurement Based Devices and Algorithms, PSERC, \$150,000 (06/2011-08/2013)
- [RG3]. Senior Personnel, Training program in clean energy smart grid engineering, Department of Energy
- [RG4]. PI, Course Development titled “Critical Infrastructure Security: The Emerging Smart Grid”, PSERC/NSF/DOE, \$140K
- [RG5]. Researcher, Trustworthy cyber-infrastructure for the power grid, Department of energy
- [TG1]. PI, A Nationwide Consortium of Universities to Revitalize Electric Power Engineering Education by State-of-the-Art Laboratories, Department of Energy (DoE) through University of Minnesota, \$4,000.00, (07/2010- 07/2013).
- [EG1]. Co-PI, International Graduate Student’s Challenges: A Survey – based Study, Educational Research Project, Funded through designated funds
- [DF1]. GE PMU, in-kind support by GE, \$15,000, 11/2010

### VIII.B. Completed Funding/Grant at MSU

- [RG5]. 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)
- [RG3]. Co-PI, Study of interconnection benefits, strategies and impact of distributed generation on the electric power grid. US Department of Energy (DoE) \$100,000, (06/2007 - 01/2011).
- [RG4]. Co-PI, “The Western Interconnection Synchrophasor Project”, U.S. Department of Energy (DOE) Smart Grid Investment Grant Program (SGIG) through Western Electricity Coordinating Council/ Pacific Gas and Electric, \$107,780,000
- [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, “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)
- [RG7]. 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)

- [RG8]. PI, Remote, nondestructive testing of power system, Multiple University Research Initiative, ONR through Drexel University, \$239,622, (5/2004- 08/2010)
- [TG2] 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
- [TG3] 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
- [DF1]. Synchro-phasor Vector Processor, in-kind support by Schweitzer Engineering Lab, \$30,000, 05/2008
- [DF2]. PI server, in-kind support by OSIssoft, \$494,000, 10/2009

## VIII. Publications

### IX.A. 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, book chapter for 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, book chapter for IEEE press, intelligent control subcommittee
- [B4]. *Anurag K Srivastava*, Noel N Schulz, Ramon Zamora, Krishnanjan G Ravikumar, Vinoth M Mohan, “**Real Time Modeling and Control of Smart Grid Systems**”, under review, Springer edited book ‘Power System’ series

### IX.B. Journal Papers Published/ Accepted

- [J1]. Krishnanjan G. Ravikumar, *Anurag K. Srivastava*, and Greg Zweigle, “**Wide-Area Monitoring and Control Using the Real Time Digital Simulator and a Synchrophasor Vector Processor**”, in press, special issue in European Transaction on Electric Power
- [J2]. *Anurag K. Srivastava*, *Sukumar Kamalasanan*, *Daxa Patel*, *Sandhya Sankar*, and *Khalid S. Al-Olimat*, “**Electricity Markets: An Overview and Comparative Study**”, in press, International Journal of Energy Sector Management
- [J3]. *Anurag K Srivastava*, Aarthi Asok Kumar and Noel N Schulz, “**Impact of Energy Storage devices on the Electric Grid with Distributed Generators**”, accepted subject to revision to IEEE Systems Journal
- [J4]. Seetharama R Rudraraju, Suresh C Srivastava, *Anurag K Srivastava* and Noel N Schulz, “**Modeling and Simulation of VSC-MVDC System**”, in press, International Journal of Electric Power and Components System
- [J5]. Soumya K. Srivastava, *Anurag K. Srivastava*, Adrienne R. Minerick, Noel N. Schulz, “**Recruitment and Retention of International Graduate Students in U.S. Universities**”, International Journal of Engineering Education, vol. 26, no. 6, pp.1561-1574, December, 2010
- [J6]. Qiuli Yu, Noel N Schulz and *Anurag K Srivastava*, “**Multi-Agent Based Reconfiguration of AC-DC Shipboard Distribution Power System**”, special issue in International Journal of Integrated Computer-Aided Engineering, vol. 17, no. 4, December 2010, pp. 347-357

- [J7]. Sri Hari K Vuppalapati, and *Anurag K. Srivastava*, “**Application of Ant Colony Optimization for Reconfiguration of Shipboard Power System**”, International Journal of Engineering, Sciences and Technology, vol. 2, no. 3, pp. 119-131, March 2010.
- [J8]. Ramon Zamora and *Anurag K. Srivastava*, “**Controls for Microgrids with Storage: Review, Challenges, and Research Needs**”, Journal of Renewable and Sustainable Energy Reviews vol. 14, issue 7, pp. 2009-2018, September 2010.
- [J9]. *Anurag K. Srivastava*, Bharath Annabathina and Sukumar Kamalasan, “**Techno-Economic Issues and Policy Options of Plug-in Hybrid Vehicle on Electric Grid**”, in press, The Electricity Journal, Volume 23, Issue 3, April 2010, Pages 83-91.
- [J10]. *Anurag K Srivastava*, Seetharama R Rudraraju, Paras Mandal, Jignesh Solanki, and Sarika Khushalani, “**Price Based Unit Commitment with Arbitrage and Emission Constraints Using Genetic Algorithm**”, International Journal of Power System Optimization, Vol.1 No.2, 2009, pp. 125-131.
- [J11]. Paras Mandal, *Anurag K Srivastava*, and Jung-Wook Park, “**An Effort to Optimize Similar Days Parameters for ANN based Electricity Price Forecasting**”, IEEE Transaction on Industrial Applications, vol. 45, issue 5, Sept.-Oct. 2009, pp. 1888-1896 (\*2008 Prize Paper Award from the Energy Systems Committee, IEEE Industry Applications Society(IAS)).
- [J12]. 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**”, International Journal of Energy Research, vol. 34, issue 6, June 2009, pp. 507-522.
- [J13]. S. Kamalasan, *A K Srivastava* and D. Thukaram, “**A new intelligent algorithm for online voltage stability assessment and monitoring**”, International Journal of Electric Power and Energy System, vol. 31, issue 2-3, February – March 2009, pp. 100-110.
- [J14]. 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.
- [J15]. 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
- [J16]. *A. Srivastava*, M. Shahidehpour, “**Restructuring Choices for the Indian Power Sector**”, IEEE Power Engineering Review, November 2002, Vol. 22, No. 11, Page 25-29.
- [J17]. *A.K. Srivastava*, Ram M. Shrestha, S.C. Srivastava, Dharam Paul, and Rabin Shrestha “**Power sector development in India with CO<sub>2</sub> emission targets: Effects of regional grid integration and the role of clean technologies**”, International Journal of Energy Research, 2003, vol. 27, pp. 671-685.
- [J18]. *Anurag K Srivastava*, Sheldon S Williamson, “**Techniques of power factor correction-I**”, ePower magazine, EFY, July 2004, pp. 53-56.
- [J19]. *Anurag K Srivastava*, Sheldon S Williamson, “**Techniques of power factor correction-II**”, ePower magazine, EFY, September 2004, pp. 22-26.

### IX.C. Journal Papers in Review

- [J20]. Padmavathy Kankanala, Suresh C Srivastava, Anurag K Srivastava, Noel N Schulz, “**Computational Intelligence Application in Optimal Control of Voltage and Power in a Multi Zonal MVDC Power System**”, IEEE Transaction On Power System
- [J21]. Kotesh R Padamati, Nikhil Kumar, *Anurag K Srivastava* and Noel N Schulz, “**Application of Evolutionary Algorithms for Reconfiguration of Shipboard power System**”, submitted to IEEE Transactions on Power Delivery

- [J22]. H. Daneshi, *Anurag K. Srivastava*, and A. Daneshi, “**Security Constrained Unit Commitment with Wind Generation and Compressed Air Energy Storage**”, submitted to IET Proceedings on Generation, Transmission and Distribution
- [J23]. Vamsi K Vijapurapu, Noel N Schulz and Anurag K Srivastava, “**Differential Relay Model Development and Validation Using Real Time Hardware-in-the-loop Simulation**”, submitted to International Journal of Energy Technology and Policy
- [J24]. Thomas Morris, Anurag Srivastava, Bradley Reaves, Kalyan Pavurapu, Wei Gao, Ram Reddi , “**A University based Industrial Control System Laboratory and Testbed**”, Submitted to International Journal of Critical Infrastructure Protection

#### IX.D. Conference Papers 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 21<sup>st</sup> 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 30<sup>th</sup>-April 2<sup>nd</sup>, 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 30<sup>th</sup>-April 2<sup>nd</sup>, 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 30<sup>th</sup>-April 2<sup>nd</sup>, 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 Duvoor, 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 Curriculum**”, 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 20-24<sup>th</sup>, 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. 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 K Srivastava, *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, Curitiba, Brazil, November 8-12, 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, Mississippi State, MS, October 4-6, 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, Mississippi State, MS, October 4-6, 2009
- [C63]. Shireesha Methuku, *Anurag K Srivastava* and Noel N Schulz, “**Comprehensive Modeling and Stability Analysis of Biomass Generation**”, North American Power Symposium, Mississippi State, MS, October 4-6, 2009
- [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, “**Generation Scheduling with Integration of Wind Power and Compressed Air Energy Storage**”, IEEE T&D conference and exposition, New Orleans, LA, April 19-22, 2010
- [C66]. Minglan Lin, *Anurag K srivastava* and Noel Schulz, “**Voltage Stability Assessment of AC/DC Systems**”, IEEE T&D conference and exposition, New Orleans, LA, April 19-22, 2010
- [C67]. Michael Negnevitsky, *Paras Mandal*, and *Anurag K. Srivastava*, “**Applications of Intelligent Algorithm in Forecasting of Load Demand, Electricity Price, and Wind Power Prediction**”, International Conference on Artificial Intelligence in Science and Technology (AISAT), Hobart, Australia, November 23-24, 2010
- [C68]. 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, April 19-22, 2010
- [C69]. 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, April 19-22, 2010
- [C70]. Soumya K Srivastava, *Anurag K Srivastava*, Adrienne Minerick and Noel N Schulz, “**Preferences and challenges for female graduate engineering students: A survey based study**”, ASEE Conference and Exposition, Louisville, Kentucky, June 20-23, 2010
- [C71]. Ram Mohan Reddi, and Anurag K Srivastava, “**Real Time Test Bed Development for Power System Operation, Control and Cyber Security**”, North American Power Symposium, October, 2010, Arlington, TX

- [C72]. Hossein Daneshi, Anurag Srivastava, Ali Daneshi “**ERCOT Electricity Market: Transition from Zonal to Nodal Market Operation**”, IEEE PES General Meeting, July 26 - July 29, 2011, Detroit, MI
- [C73]. Anurag Srivastava, Ramon Zamora, Doug Bowman, “**Impact of Distributed Generation with Storage on Electric Grid Stability**”, IEEE PES General Meeting, July 26 - July 29, 2011, Detroit, MI (Invited Panel)

#### IX.E. Conference Papers in Review

- [C74]. Henry Louie, Anurag Srivastava, “**Resources for Pre-University Power Engineering Outreach**”, IEEE PES General Meeting, July 26 - July 29, 2011, Detroit, MI (Invited Panel)
- [C75]. Joydeep Mitra, Niannian Cai, Mo-Yuen Chow, Sukumar Kamalasan, Wenxin Liu, Wei Qiao, Sri Niwas Singh, Anurag K. Srivastava, Sanjeev K. Srivastava, Ganesh K. Venayagamoorthy, and Ziang Zhang, “**Intelligent Methods for Smart Microgrids**”, IEEE PES General Meeting, July 26 - July 29, 2011, Detroit, MI (Invited Panel)
- [C76]. Hossein Daneshi, Anurag Srivastava, Ali Daneshi, “**Security Constrained Unit Commitment with Phase Shifter and Wind Generation**”, IEEE PES General Meeting, July 26 - July 29, 2011, Detroit, MI
- [C77]. Soumya K Srivastava, Anurag K Srivastava, Adrienne Minerick and Noel N Schulz, “**Survey based comparison of perceptions among alumni and current engineering students at US universities**”, ASEE Conference and Exposition, Vancouver, Canada

#### IX.E. 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 Electric 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 27<sup>th</sup>, 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
- [P35]. 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
- [P36]. 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
- [P37]. 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

- [P38]. 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
- [P39]. Vinoth Mohan, *Anurag K 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
- [P40]. 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
- [P41]. Farshid Shariatzadeh, and *Anurag K. Srivastava*, “**Real-Time Implementation of Intelligent Algorithm for Reconfiguration of Electric Distribution Systems**”, IEEE T&D conference, New Orleans, LA, April, 2010
- [P42]. Mounika Kurra, and *Anurag K. Srivastava*, “Development of Real Time Test Bed to Validate Phasor Measurement Based Techniques”, IEEE T&D conference, New Orleans, LA, April, 2010
- [P43]. Qinghua Huang, Noel N. Schulz, *Anurag K. Srivastava*, Tomasz Haupt, “**Applying PMUs in Distributed State Estimation for the Power System**”, IEEE T&D conference, New Orleans, LA, April, 2010
- [P44]. Ramon Zamora, and *Anurag K. Srivastava*, “**Modeling and Control of Microgrid**”, IEEE T&D conference, New Orleans, LA, April, 2010
- [P45]. Pedram Jahangiri and *Anurag K. Srivastava*, “**Reconfiguration of MVDC Shipboard Power System**”, IEEE T&D conference, New Orleans, LA, April, 2010
- [P46]. Ram Mohan Reddi and *Anurag K. Srivastava*, “Real Time Test Bed Development for Power System Operation, Control and Cyber Security”, IEEE T&D conference, New Orleans, LA, April, 2010
- [P47]. Shilpa Toppo and *Anurag K. Srivastava*, “**Three Phase Current Injection based Power Flow for Shipboard and Distribution System**”, IEEE T&D conference, New Orleans, LA, April, 2010
- [P48]. Shireesha Methuku, *Anurag K. Srivastava* and Noel N Schulz, “**Comprehensive Modeling and Technical-Economical Impacts of Biomass Generation**”, IEEE T&D conference, New Orleans, LA, April, 2010
- [P49]. Venkata Surya Viswanadham and *Anurag K. Srivastava*, “**Technical Impact of PHEV on Electric Grid**”, IEEE T&D conference, New Orleans, LA, April, 2010
- [P50]. Ramon Zamora and Anurag K Srivastava, “**Design of Microgrid Controllers**”, IEEE PES GM 2010, Minneapolis, MN

## IX. 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, 15<sup>th</sup> 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, 11<sup>th</sup> April, 2006.
- [ITP3]. *A.K. Srivastava*, ‘**Voltage Collapse Contingency Screening**’, IEEE invited lecture seminar series, Electrical Engineering department, IIT, Kanpur, India, 5<sup>th</sup> 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, 31<sup>st</sup> August, 2007.

- [ITP5]. Anurag Srivastava, “**Self-Describing and Controllable Power Grid**”, PMU application user group meeting, Entergy, New Orleans, LA, September 19<sup>th</sup>, 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 17<sup>th</sup>, 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 24<sup>th</sup>, 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 15<sup>th</sup>, 2009
- [ITP13]. *Anurag K Srivastava*, “**Engineering the Future Power Grid with Increased Security Measures**”, Indian Institute of Science, Bangalore, India, May 15<sup>th</sup>, 2009
- [ITP14]. *Anurag K Srivastava*, “**Smart Power Grid: Research Opportunities and Making it Reality**”, Vanderbilt University, Nashville, USA, November 13<sup>th</sup>, 2009
- [ITP15]. *Anurag K Srivastava*, “**Modeling and Simulation of Next Generation Smarter Electric Grid**”, Tennessee Tech University, Cookeville, TN, USA, November 13<sup>th</sup>, 2009
- [ITP16]. *Anurag K Srivastava*, “**Validation of Power Engineering Concepts and Algorithms Using Real Time Simulations**”, Washington State University, Pullman, WA, USA, September 21<sup>st</sup>, 2010
- [ITP17]. *Anurag K Srivastava*, “**Technical and Environmental Impact of Integrating Distributed Generation with Electric Grid and Microgrid**”, University of Washington, Seattle, WA, USA, October 14<sup>th</sup>, 2010
- [ITP18]. Anurag K Srivastava, “**Smart Grid Research Activities at Washington State University**”, Webinar For Siemens, NY, November 9<sup>th</sup>, 2010
- [ITP19]. Anurag K. Srivastava, “**Real-time Modeling and Simulation for Future Power Grid**”, University of Idaho, IEEE Palouse Section Meeting, November 18<sup>th</sup>, 2010
- [ITP20]. Anurag K Srivastava, “**Power up your Future**”, Imagine U, Middle School and High School, November 23<sup>rd</sup>, 2010
- [ITP21]. Anurag K Srivastava, “**Validation of Smart Grid Algorithms and Devices Using Real Time Simulation**”, University of Idaho, February 24<sup>th</sup>, 2011

## X. Service

### XI.A. University Service (Washington State University)

- Nomination Committee Member, Reid Miller Teaching Award, EECS School
- Adviser, Senior Design Project, EECS School

### XI.B. University Service (Mississippi State University)

- Faculty co-advisor, Eta Kappa Nu, Department of Electrical and Computer Engineering, Mississippi State University (MSU) (2006-2010)
- Member, Power and Control Committee, Department of Electrical and Computer Engineering, MSU (05-2010)
- 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, Computer and Lab Planning Committee, Department of Electrical and Computer Engineering, MSU (09-10)
- Member, Energy working group, Mississippi State University (06-present)
- Member, Working group on Controls and Robotics, MSU (08-present)
- Member, Scientific computing research group, Mississippi State University (06-present)
- Member, Advanced Prototyping Experimentation Laboratory (APEX), Mississippi State University, (07-present)
- Judge, Physical Science Oral Presentation, Graduate Student Association Symposium, Mississippi State University, November 6<sup>th</sup>, 2009
- Judge, Physical Science Oral Presentation, Graduate Student Association Symposium, Mississippi State University, April 3<sup>rd</sup>, 2009
- Judge, Graduate Student Association Symposium, Mississippi State Univ., April 4<sup>th</sup>, 2008

### XI.C. Professional Service

- DG integration Committee, ASME, 2010-11
- PDC-PMU communication committee, NASPI, 2010-11
- Session Chair, Power Electronics in Power System II, North American Power Symposium, Arlington, TX, September 26-28, 2010
- Student Paper/ presentation Judge, North American Power Symposium, Arlington, TX, September 26-28, 2010
- Session Chair, Dynamic Performance of HVDC and FACTS, IEEE Power and Energy Society General Meeting, Minneapolis, MN, July 25-29, 2010
- Student Poster Judge, IEEE Power and Energy Society General Meeting, Minneapolis, MN, July 25-29, 2010
- Session Chair, Modeling student data, American Society of Engineering Education, June 20-23, 2010, Louisville, Kentucky
- Student Poster Judge, IEEE Transmission and Distribution Conference and Exposition, T&D, April, 2010
- Student Program Chair and member of Organizing Committee, North American Power Symposium, NAPS, October 2009, Mississippi State, MS
- 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, Mississippi Science Fair, Mississippi State University, March 26<sup>th</sup>, 2009

- Judge, Student Poster Contest, IEEE PES General Meeting, Calgary, July 26-30, 2009
- Session Co-Chair, Power System Dynamic Performance I, Power System Conference and Exposition (PSCE), Seattle, WA, March 15-18<sup>th</sup>, 2009
- Session Chair, Power System Dynamic Performance II, Power System Conference and Exposition (PSCE), Seattle, WA, March 15-18<sup>th</sup>, 2009
- 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
- Session Chair, Control of Power System Components, NAPS, 2007, September 30<sup>th</sup> – October 2<sup>nd</sup>, Las Cruces, New Mexico, USA
- Judge, Student paper competition, NAPS 2007, Sep. 30-Oct. 2<sup>nd</sup>, 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, 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, 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, February 28-March 1, 2007, Mississippi State, MSU
- 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 30<sup>th</sup>-April 2<sup>nd</sup>, 2006
- Judge, Mississippi State Science and Engineering fair, MSU (04/06)

#### **XI.D. Conference/ Workshop/ Tutorial Organized**

- *RTDS Workshop, October 23<sup>rd</sup> 2009, Mississippi State, Mississippi State University*
- *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*
- *LabView 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*

## *XI. Awards/ Honors/ Scholarships*

- Who's Who Among Executives & Professionals 2010 editions
- 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), IEEJ2006 Annual meeting, University of the Ryukyus, Japan. (06).
- WHO'S WHO in America, (06, 08)
- WHO'S WHO in the Midwest, 33<sup>rd</sup> edition (06)
- WHO'S WHO of emerging leaders in American science and Engineering, 1<sup>st</sup> edition (11/06)
- WHO'S WHO in Science and Engineering, 9<sup>th</sup> 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, 60<sup>th</sup> edition (09/05)
- Best Teaching Assistant Award, Star of the Month, 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, 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)

## *XII. Professional Affiliations*

### *Editorial Board Member*

- 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 Transactions on Power System
- IEEE Transactions on Smart Grid
- IEEE Transactions on Power Delivery
- IEEE Transactions on Energy Conversion
- IEEE Transactions on Industrial Electronics
- IEEE Transactions on Education
- IEEE Transactions on Vehicular Technology
- IEEE Power Engineering Society Letters
- IEE Proc. on Generation, Transmission & Distribution
- International Journal of Emerging Power System
- 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
- Journal of Electric Power Components and System
- International Journal of Engineering Science and Technology
- Simulation Modelling Practice and Theory
- Energies Journal
- International Journal of Energy Sector and Management
- European Transactions on Electric Power
- 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
- North American Power Symposium, Mississippi State, October, 2009
- Intelligent System Applications to Power Systems, Brazil, 2009
- The Applied Power Electronics Conference and Exposition, 2010
- PEDES conference, India , 2010
- IEEE T&D Conference and Exposition, New Orleans, LA, 2010
- IEEE PES General Meeting, Minneapolis, MN, 2010
- LESCOPE, Halifax, Canada, 2010
- North American Power Symposium, October, 2010, Arlington, TX
- IEEE PES Power System Conference and Exhibition, Phoenix, AZ, 2011
- IEEE PES General Meeting, Detroit, 2011

**Book:**

- John Wiley and Sons, Book proposals

**Research Proposal Reviewer:**

- Department of Energy, USA
- National Research Fund, Qatar
- National Science Foundation, USA

**Member/ Affiliations:**

- 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, Chair: 2011)
      - Life Long Learning Committee (2010-present)
    - 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, 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)
  - Smart Grid Interoperability Panel, NIST (Voting member, 2009-present)