ANURAG K. SRIVASTAVA, Ph. D., FIEEE

Raymond J. Lane Professor and Chairperson,
Lane Department of Computer Science and Electrical Engineering
Director, Smart Grid REsiliency and Analytics Lab (SG-REAL)
Grid Operation center Lab (GOLab)
AERB 363B, 1220 Evansdale Drive, PO Box 6109
West Virginia University, Morgantown, WV 26506
Phone: 304-293-3017, email: anurag.srivastava@mail.wvu.edu

Adjunct Professor, Washington State University
https://sgdril.eecs.wsu.edu/research-group/director/

Senior Research Scientist, Pacific Northwest National Lab,
https://energyenvironment.pnnl.gov/staff/staff_info.asp?staff_num=3702

Google Scholar: https://scholar.google.com/citations?user=_GtNYPMAAAAJ&hl=en

January, 2025

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I. Professional Profile

- *Leadership*
  - As the Chairperson of the CSEE Department and Raymond J. Lane Professor at West Virginia University, I lead a team of faculty, staff, and students passionate about advancing computer science, cybersecurity, electrical engineering, computer engineering, software engineering, AI, robotics, and biometrics.
  - Over the past three years, research expenses in the department have more than ***doubled***, while also significantly increasing both the quality and quantity of total departmental publications. Student enrollment in computer Science and Cybersecurity has grown by 77%, over the past five years.
  - I served as Technical Lead and Lead Co-I of the $30M UI-ASSIST Center, driving advancements in renewable energy integration and decarbonization. I also provide technical leadership within IEEE and CIGRE for multiple focused subgroups, task force.
  - My mission is to promote innovative solutions and create leaders in academia and research, ultimately aiming to improve the quality of life for all. I value collaboration, creativity, and integrity.
  - With over 19 years of experience as a scientist, educator, researcher, and leader, I bring a robust background in academic and research leadership

- *Research*
  - High impact research projects resulted in patented tools installed at the electric utility control center or used by utility/ vendors (e.g., Cordova Electric, Southern California Edition, AVISTA, EPRI, OPAL-RT, Idaho Power)
  - Published 404 peer-reviewed research articles (179 Journals and 225 conference papers), 22 book chapters, 3 books, and 3 patents with *11539 citations* (i10-index: 203, h-Index: 53).
  - Serving/Served as PI, Co-PI for research funding/grants of more than $66 million total (*my research expenditure: ~$15M* till Fall 2024) over 19 years supported by the National Science Foundation (NSF), Department of Energy (DOE), Power System Engineering Research Center (PSERC), Electric Power Research Institute (EPRI), Pacific Northwest National Lab, Idaho National Lab, National Renewable Energy Lab, Power Industry Members (AVISTA, PGE, SEL, Siemens, CISCO, RTE-France), Office of Naval Research (ONR), DARPA, Appalachian Regional Commission (ARC), US Department of Education, and US Department of State and Department of Homeland Security (DHS).
  - Supervised/co-supervised 61 graduate theses (1 Ph.D.+ 1 M.S. @ WVU, 22 Ph.D.+ 18 M.S.@ WSU; 3 Ph.D. + 16 M.S.@ MSU) and existing research group at WVU/WSU with 14 members (11 Ph.D. + 1 M.S. + 2 post-doc).
  - 80+ Keynotes/ tutorials/ IEEE Distinguish Lecture in 18 countries and additional 210+ invited talks and panels at multiple conferences.
  - Top 2% scientist, Stanford List, 2022, 2023, 2024
  - Fellow, IEEE, 2022 and WSU EECS Faculty Research Excellence Award, 2020

- *Teaching*
  - National Academy of Engineers (NAE) FOEE fellow, 2012
  - Developed several new course materials and lab materials funded by DOE, NSF, PSERC, EPRI

• *Service*

- Distinguished Lecturer, IEEE PES and IAS for PMU Applications, Energy Management with renewable energy, and Resiliency, 2014 (PES) and 2022 (IAS)- Present
- IEEE IAS Fellow Evaluating Committee, 2024
- IEEE PES Fellow nomination committee, 2022
- Serving/served as Associate Editor, IEEE Transactions on {Power Systems, Smart Grid, Industry Applications, Multiple Special Issues}
- Conference Chair, The International Conference on Smart Grid Synchronized Measurements and Analytics 2024 (SGSMA 2024), Washington DC, 2024
- Technical Co-Chair, IEEE SmartGridComm 2021
- Organizing Committee Member, NSF Sponsored "Forging Connections between Machine Learning, Data Science, & Power Systems Research", 2020
- Co-Chair, Computational Challenges and Solutions for Implementing Distributed Optimization in the Power System WG, AMPS, CAMS, IEEE PES, 2020
- Co-Chair, TF on Operational Tools for Enabling Resiliency, PSOPE, IEEE PES, 2020
- Co-Chair, IEEE WS on "Modeling and simulation of Cyber-Physical Energy Systems", 2016-2024
- Chair, Voltage stability working group, PSDP, IEEE PES, 2019
- Chair, Bulk Power system operation SC, IEEE PES, 2023
- Chair, NSF sponsored "Data analytics workshop for the power grid resiliency" 2018
- Chair, Synchrophasor Applications for the Power Grid Operation TF, BPSO, IEEE PES, 2018
- Chair, Siemens sponsored "Data analytics for the smart grid" workshop, 2017
- Co-chair, Microgrid applications and implementation working group, IEEE PES, 2017
- Chair, North American Power Symposium sponsored by NSF and IEEE, 2014
- Chair, IEEE WS on Testing and validation of synchrophasor devices and applications, 2012
- Member, CIGRE C2.25: Operational Resilience; C4.47: Power System Resilience; D2.52: AI Application and Technology in Power Industry; C4C2.58: Voltage Stability Assessment; C2.18: Wide Area Monitoring and Control for Decision Support.

• *Other Activities*

- Developed research lab, SGDRIL/SG-REAL/GOLab worth more than $4M
- Certificate of highest standard for academic achievement during Doctoral Studies

II. Research/ Teaching Interests

- My research interests mainly relate to computational tools for '***Power System Operation and Control***' in the context of the evolving ***cyber-physical-human*** smart grid. While the smart grid is a broad term, my goals relate to using smart grid data such as synchrophasor measurements to develop advanced computational algorithms for power system operation and control specifically towards resiliency against ***climate change and cyber-attacks***. The approach developed by my research group include ***physics-driven machine learning*** for power grid operation and control. My existing research projects with external and internal collaborators in engineering, science and policy relate to the followings:
  - **Power System Operation and Control for Enhanced Resiliency and Sustainability**

- ***Data-driven and physics-driven machine learning (ML) computational algorithms to enable security, resiliency, sustainability and voltage stability of the power grid (transmission systems with microgrid/ distribution)***
- ***Real-time modeling and analysis of cyber-power systems for quality-aware synchrophasor applications and resiliency analysis***
- ***Industry-grade tool development for electric grid resiliency, smart grid data analytics***

- ***Engineering Education for Broadening Minority Participation and Pre-Engineering Outreach***

III. Work Experience

- *Raymond J. Lane Professor and Chairperson*
  - *Lane Department of Computer Science and Electrical Engineering,* ***West Virginia University,*** *Morgantown, WV 26506 (7/21-present)*
- Adjunct Professor of Electrical Engineering
  - The School of Electrical Engineering and Computer Science, ***Washington State University****,* Pullman, WA, USA, (07/21-present)
- Technical lead and lead Co-PI, $30M DOE/DST UI-ASSIST Center
  - WSU, Pullman, WA, USA, (10/17 – 10/23)
- Associate Professor of Electrical Engineering
  - The School of Electrical Engineering and Computer Science, ***Washington State University****,* Pullman, WA, USA, (08/15 – 06/21)
  - Professional leave for sabbatical (2016-2017 academic year)
- Senior Scientist
  - Energy and Environment Directorate, ***Pacific Northwest National Laboratory****,* Richland, WA, USA, (08/19 -present)
- Visiting Researcher/ Consultant
  - ***Peak Reliability Coordinator***, Vancouver, WA, USA, (7/18 – 8/18)
- Guest Professor
  - E.ON Energy Research Center, ***RWTH Aachen University***, Aachen, Germany (6/17 – 7/17)
- Visiting Researcher
  - R&D, ***Schweitzer Engineering Lab***, Pullman, WA, USA, (4/17 – 5/17)
- Visiting Scientist
  - R&D, ***Réseau de transport d'électricité (RTE),*** Versailles, France, (3/17 – 4/17)
- Visiting Scientist
  - Energy Infrastructure, ***Pacific Northwest National Lab***, Richland, WA, USA, (1/17 – 2/17)
- Visiting Scientist
  - WAMS and Network Group, ***GE Grid Solutions***, Redmond, WA, USA, (11/16 – 1/17)
- Visiting Research Scientist
  - Power and Energy Systems, ***Idaho National Lab***, Idaho Falls, ID, USA, (06/16 – 10/16)
- Visiting Professor and Consultant
  - Applied Solutions, Operation and Market, ***PJM Interconnections***, Audubon, PA, USA, (08/16)
- Visiting Professor of Power Engineering
  - Active Adaptive Control Lab, ***Massachusetts Institute of Technology***, Cambridge, MA, USA, (07/16)

- Assistant Professor of Electrical Engineering
  - The School of Electrical Engineering and Computer Science, ***Washington State University***, Pullman, WA, USA, (08/10 – 08/15)
- Assistant Research Professor of Electrical Engineering
  - Electrical and Computer Engineering Department, ***Mississippi State University***, Mississippi State, MS, USA, (09/05-08/10)
- Graduate Research Assistant and Teaching Assistant
  - Electrical and Computer Engineering Department, ***Illinois Institute of Technology***, Chicago, IL (08/01- 07/05)
- Senior Research Associate
  - Department of Electrical Engineering, ***Indian Institute of Technology***, Kanpur, India (08/99-08/01)
- Research Fellow
  - School of Environment, Resources and Development, ***Asian Institute of Technology***, Thailand (02/00 – 04/00 & 03/01- 05/01)
- Teaching Assistant
  - Department of Electrical Engineering, ***Indian Institute of Technology***, Varanasi, India (01/98 – 05/99)
- Electrical Engineering Intern
  - ***General Electric Company*** (GEC)-ALSTOM, Allahabad, India (05/96-07/96)

IV. Educational Qualifications

- 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

- Indian Institute of Technology, (Banaras Hindu University), Varanasi, UP, India
  - Master of Technology, July 1999, GPA: 3.7/4.0, 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, UP, India
  - Bachelor of Technology, May 1997, GPA: 3.8/4.0, Electrical Engineering

V. Students Graduated/ Advising

V.A. Post-Doctoral Fellows and Visiting Scholars

Visiting Scholar at WVU

[1]. Niloy Patari, Post-doctoral Fellow, November. 2023-present
[2]. Cosmas Nwakanma, Post-doctoral Fellow, October 2024-present

V.B. Existing Graduate Students

Ph.D. Students at WVU

[1]. Md. Mustafa Hussain, May 2025
[2]. Jannatul Adan, December 2025
[3]. Md. Fazley Rafy, December 2025
[4]. Paroma Chatterjee, December 2025
[5]. Solmaz Nazaralizadeh, May, 2026 (co-advised with Prof. Parviz Famouri)

[6]. Ellis Oti Boateng, December, 2026
[7]. Kamrul Hasan, May 2027
[8]. Shradha Shrestha, December 2027
[9]. Md. Mosfiqure Rahman, December 2027
[10]. Syed Khaleduzzaman, December 2027

M.S. Students at WVU

[11]. Varsha Sen, May 2026

Ph.D. Students at WSU

[12]. Ceeman Vellaithurai, May 2025

V.C. Visiting Scholars and Undergraduate Researcher at WVU

[1]. Garrett Butler, Undergraduate Researcher (Spring 2024-present)
[2]. Brian Ngo (Spring 2025-Present)
[3]. Issac Davis (Spring 2025-Present)

V.D. Former Visiting Faculty and Post-Doctoral Fellow

WVU

[1]. Sagnik Basumallik, Engineering Scientist, May 2022 – August 2024 (Working with the New York Ppwer Authority (NYPA), NY)
[2]. Paramarshi Banerjee, Post-doctoral Fellow, Feb. 2023-September 2024 (Working with Siemens, Germany)
[3]. Vignesh V. Krishnan, Visiting Faculty, February 2024-August 2024
[4]. Pratyasa Bhui, Visiting Faculty (Nov, 2023-May 2024)
[5]. Sajan K. Sadanandan, Engineering Scientist, October 2021 – April 2022 (Working at the Dubai Electricity and Water Authority (DEWA), Dubai, UAE)
[6]. Subir Majumder, Engineering Scientist, September 2021 – March 2023 (Working at the Texas A&M University, College Station, TX)

WSU

[1]. Sanjeev Pannala, Assistant Research Professor/ Post-Doc, July 2019 – July 2023 *(co-mentored with Dr. Schulz), Working at National Renewable Energy Lab*
[2]. Subir Majumder, Post-Doc Fellow, Jan. 2020 – Aug. 2021 (supported by DOE and NSF), Working at the Texas A&M University, College Station.
[3]. Sajan K. Sadanandan, Post-Doc Fellow, December 2018 – September 2021
[4]. Amirkhosoro Vosughi, Post-Doc Fellow, January 2020 – March 2021 (Supported by DOE), working at OpenEye, Liberty Lake, WA
[5]. Pratim Kundu, Assistant Research Professor, 2018- 2019 (supported by EPRI, ARPA-E, PSERC), Working as a Faculty at Indian Institute of Tech., Mandi, India
[6]. Illia Diahovchenko, Fulbright Post-Doctoral Fellow, December 2018-June 2019, (supported by Fulbright), Working as a Faculty at Sumy State University, Ukraine
[7]. Ramyar Saeedi, Post-Doctoral Fellow, (Co-advised with Prof. Gebremedhin), October 2018-August 2019 (Supported by DOE), Working at Hitachi America
[8]. Venkatesh Venkataramanan, Post-Doctoral Fellow, July 2019-August 2019 (Supported by DOE), Working at National Renewable Energy Lab.
[9]. Vignesh Krishnan, Assistant Research Professor, July 2016- October 2018 (Supported by DOE, ARPA-E, Siemens, EPRI), - *Working as a Faculty at IIT Tirupati*
[10]. Param Banerjee, Assistant Research Professor, July 2015 – June 2018 (Supported by DOE, NSF, PSERC, EPRI), Working at the AutoGrid R&D

[11]. Chandrashekhar N. Bhende, Visiting Faculty from IIT Bhuvneshwar, May-July 2018 (Funded by Bhaskara Advanced Solar Energy (BASE) Fellowship)
[12]. Anju Meghwani, Visiting Post-Doctoral Associate, Summer 2018 (Supported by DOE)
[13]. Sandeep Anand, Visiting Faculty, Summer 2018 (Supported by DOE)
[14]. Ramon Zamora, Post-Doctoral Associate, January 2016- July 2016 (Supported by NSF grant), working at the Auckland University of Technology as a Faculty
[15]. Prabodh Bajpai, Visiting Faculty, May 2015 – July 2015 (Funded by Bhaskara Advanced Solar Energy (BASE) Fellowship, Indo-US Science and Technology Forum)
[16]. Shaowei Huang, Post-Doctoral Fellow, January-March 2013 (Funded by Tsinghua University, China)

V.E. Former Graduate Students

Ph.D. students graduated at WVU

[1]. Partha Sarkar, "Enabling Cybersecure and Resilient Smart Distribution Grid with Edge Devices", August 2023 (working at Dominion Energy, VA)

Ph.D. students graduated at WSU

[1]. Srayashi Konar, "Distributed Discrete Optimization for Autonomous Restoration in DER-Rich Power Distribution Network", December 2023 (Working with General Electric, NY)
[2]. Linli Jia, "Distribution Power System Resiliency in DER-Rich Environment**",** August 2023, (working at the Dominion Energy, VA)
[3]. Amir Gholami, "Disturbance and Outage Root Cause Analysis in Distribution System Using Physics-aware Data-driven Approaches", September, 2022 (working at the Ulteig, CA)
[4]. Chuan Qin, "Data-Driven Situational Awareness for Distribution System Resiliency", August 2022 (Working at the Pacific Northwest National Lab, Richland, WA)
[5]. Arman Ahmed, "Data Driven Event Analysis for Cyber-Power System", August 2022 (Co-advised with Dr. Yinghui Wu) (WSU-PNNL Distinguished Graduate Research Fellow) (Working at Intel, Beverton, OR)
[6]. Niloy Patari, "Distributed Voltage Control and Optimization for Distribution Power Systems", December 2021 (Working at National Grid, NY)
[7]. Gowtham Kandaperumal, "Resiliency-Driven Situational Awareness and Decision Support For Cyber-Power Distribution Systems", July, 2021 (PNNL DGRP fellow co-advised with Dr. K. Schneider) (Working at the ComEd, Chicago, IL)
[8]. S. Armina Foroutan, "Generator Model Validation and Calibration Using Synchrophasor Measurements", May 2021 (Working at the GE Grid Solutions, Redmond, WA)
[9]. Syed Rizvi, "Data-Driven Algorithms for Power System Load Model Parameter Estimation and Voltage Stability Assessment", May 2021 (Working at the Dubai Electricity and Water Authority, Dubai, UAE)
[10]. Zhijie Nie,"Cyber-Physical Resilience Analysis for Power Systems", December 2020 (Working at the GE Grid Solutions, Redmond, WA)
[11]. Shikhar Pandey, "*Application-Aware Synchrophasor Estimation and Quality-Aware Applications*", May 2020 (Working at the ComEd, Chicago, IL)
[12]. Yue Zhang, "*Data-Driven Algorithms for Distribution System Operation and Control*", Ph.D., August 2019 (Working at the GE Grid Solutions, Redmond, WA)

[13]. Venkatesh Venkataramanan, "*Cyber-Physical Resilience Assessment for Active Power Distribution Systems*", August 2019 (Co-advised with Dr. Hahn) (Working as the National Renewable Energy Lab, Golden, CO)
[14]. Krishnanjan G. Ravikumar, "*Adaptive Remedial Action Schemes using Synchrophasors*", Ph.D., December 2018, (Working at the Google, VA)
[15]. Tushar, "*Measuring and Enabling Cyber-Physical Resiliency of Electric Transmission Systems*", Ph.D., December 2018, (Working at the GE Grid Solutions, Redmond, WA)
[16]. Sayonsom Chanda, "*Enabling Resiliency of the Electric Distribution Systems During Extreme Events*", December 2018, (Working at the National Renewable Energy Lab, Golden, CO)
[17]. Bo Cui, "*Synchrophasor Based Failure Diagnosis and Asset Monitoring in Transmission Network Protection System*", Ph.D., August 2018, (Working at Microsoft, Redmond, WA)
[18]. Ren Liu, "*Cyber-Physical Security Analysis for Synchrophasor Applications*", Ph.D., December 2017, (Working at Dominion Virginia Power, Richmond, VA)
[19]. Hyojong Lee, "*Development, Modeling, and Applications of PMUs*", Ph.D., December 2017 (Working at the Hitachi Energy, Cary, NC)
[20]. Ramon Zamora, "*Energy Management and Multi-Layer Control of Networked Microgrids*", Ph.D., December 2015, (Working as a faculty at Auckland University of Technology, New Zealand)
[21]. Saugata Biswas, "*Synchrophasor Based Voltage Stability Monitoring and Control of Power Systems*", Ph.D., September 2014 (*Best Graduate Research Assistant Award) (Working at the GE Grid Solutions, Redmond, WA)
[22]. Farshid Shariatzadeh, "*Energy Management and Control of Active Distribution Systems*", Ph.D., August 2014 (Working at the Google, Seattle, WA)

M.S. students graduated at WVU

[1]. Vasavi Sivaramakrishnan, "Real-Time Power System Testbed Development and Physics-Informed Machine Learning for Data Anomaly Detection", August 2024 (working at Dominion Energy, VA)

M.S. students graduated at WSU

[1]. M. Mustafa Hussain, "Real-Time Testbed Development for Cyber-Power Analysis and Validation", July 2021, (co-advised with Dr. A. Hahn) (continued as a Ph.D. student)
[2]. Arman Ahmed, "*PMUNET: Anomaly Detection Over Concept Drifting Synchrophasor Data Streams*", May 2019 (Co-advised with Dr. Wu) (Continued as a PNNL Fellow)
[3]. Matteo Menazzi, "*Enabling Resiliency Through Outage Management and Real-Time Data-Driven Aggregated DERs*", EU Student with WSU Thesis, August 2018. (Working with ABB, Bergamo, Italy)
[4]. Shikhar Pandey, "*A Real-Time Synchrophasor Data-Driven Approach for Event Detection in The Power Grid*", December 2017 (Continued as a doctoral student at WSU and now working at the ComEd, Chicago, IL)
[5]. Mengze Zhou, "*An Ensemble-based Algorithm for Synchrophasor Data Anomaly Detection*", May 2017 (Working at the PacificCorp, Portland, WA)
[6]. Guo Yu, "*Three-phase distribution state estimation using smart meter data*", M.S., August 2016 (Working with 1898 and Co., Greater Boston, MA)

[7]. Leslie Corson, "*Development and Integration of Three Phase Unbalanced Voltage Stability Index into Multi-Objective Optimization for Distribution System Planning*", M.S., December 2015 (Working with Douglas County PUD, East Wenatchee, WA)
[8]. Venkatesh Venkataramanan, "*A Real-Time Cyber-Physical Testbed for Microgrid Resiliency Analysis*", M.S., August 2015 (Continued as a Doctoral Student, WSU)
[9]. Sayonsom Chanda, "*Measuring and Enabling Resiliency in Distribution Systems with Multiple Microgrids*", M.S., August 2015 (Continuing as a Doctoral Student, WSU)
[10]. Tushar, "*Data-Driven Load Modeling and Application in Voltage Stability*", M.S., August 2015 (Continued as a Doctoral Student, WSU and at the GE)
[11]. Arvind Malikeshwaran, "*Development and Testing of Synchrophasor Based Dynamic Remedial Action Schemes*", M.S., August 2015, (Working with GE Grid Solutions, Redmond, WA)
[12]. Pramila Nirbhavane, "*Data-Driven Load Modeling in Power Distribution System*", M.S., December 2014 (Working with New York ISO, NY)
[13]. Fransiska Anna Martina, "*Graph Theory and Particle Swarm Based Reconfiguration of Multiple Microgrids For Grid Resiliency*", MS, Dec 2014 (Working at Chevron, Indonesia)
[14]. Jie Wei, "*Distribution Locational Marginal Price Using Three-Phase Current Injection Based Optimal Power Flow*", M.S., Dec. 2014, (Working at Monitoring Analytics LLC, PA)
[15]. Rahul Anilkumar, "*Volt/Var Management for Transmission and Distribution Systems with Wind Energy*", M.S., May 2014 (Working with Quanta Technology, CA)
[16]. Ceeman Vellathurai, "*Cyber-Power System Analysis Using a Real-Time Test Bed*" M.S., August 2013 (Working with Schweitzer Engineering Lab, WA)
[17]. Griet Devriese, "*Energy Savings and Volt/Var optimization using intelligent control*", M.S., August 2013 (Working with Power Engineers, ID)
[18]. Timothy Ernster, "*Power System Vulnerability Analysis: A Centrality Based Approach Utilizing Limited Information*", M.S., August 2012 (Working with U.S. Army Corps of Engineers, OR)

Non-Thesis Students and Professional M.S. graduated at WSU

[1]. Meshal Marzooq, December 2021 (SEL)
[2]. Kevin Gowan, Professional Science Masters (PSM), May 2021 (Puget Sound Energy)
[3]. Michael Montgomery, Professional Science Masters (PSM), December 2020 (E.C. Fennell, FL)
[4]. Kelly McFarlane, Professional SM, May 2020 (Bonneville Power Administration)
[5]. Dejene Mersha, Professional SM, May 2018 (Seattle City and Light, Seattle, WA)
[6]. Abdur Rehman, Professional SM, December 2017 (Seattle City and Light, Seattle, WA)
[7]. Sadiq Anod, PSM, May 2017 (Chelan County PUD, Chelan, WA)
[8]. Brandon Powers, "Model-based attack detection and mitigation for AGC", M.S., May 2016 (working with Army Corps of Engineer, Walla Walla, WA)
[9]. Yipeng Zhou, "Cyber-Physical Analysis for Reconfiguration of Multiple Microgrids" M.S. (Non-Thesis), Engineering Sciences, August 2015 (National Institute of clean and low carbon energy (NICE), China)
[10]. Alexander Anderson, PSM, December 2015 (Pacific Northwest National Lab, WA)
[11]. Han Zhao, "Fault Location for Power Distribution System", M.S. (Non-Thesis), May 2015

[12]. Bhavana Mupalla, "Distribution system restoration with Microgrid", M. S. (Non-thesis), August 2014 (Working at Electric Power Systems (EPS), St. Louis, MO)
[13]. Amanvir Sudan, "Data acquisition and monitoring in power grid", M. S. (Non-thesis), August 2013 (Working at Schweitzer Engineering Lab, CA)
[14]. Shreya S Kodnadu, "*PMU performance and modeling*", M. S. (Non-thesis), August 2012 (Working at Silicon Valley Power, San Francisco, CA)

Ph.D. Students graduated as Co-Advisor at Mississippi State University

[1]. Y. Baez-Rivera, "*Control of Multi-generators for the All-Electric Ship*", (co-advised with Dr. Noel Schulz) Ph.D., May 2011 (Best graduate student award from President's Commission on the Status of Women) (Associate Chair, Undergraduate Programs & Program Director, Electrical Engineering Technology at University of North Carolina, Charlotte, NC)
[2]. M. Lin, "*Static and Dynamic Voltage Stability Assessment of Hybrid AC/DC Power Systems*", (co-advised with Dr. Noel Schulz), Ph.D., December 2010 (working at New York Independent System Operator (NYISO), NY)
[3]. Q. Huang, "*Power System Distributed State Estimation with Phasor Measurement Units*", (co-advised with Dr. Noel Schulz), Ph.D., December 2010 (with Focus PDM, CA)

M.S. Thesis Students graduated as Advisor at Mississippi State University

[1]. Shilpa Toppo, "*Three-phase continuation power flow based on current injection algorithm for distribution systems*", M.S., Dec. 2010 (Working with PacificCorp, Salt Lake City, UT)
[2]. Ram Mohan Reddi, "*Development of smart grid testbed for operation, control and cyber-security analysis*", M.S., Dec. 2010 (Working at the Penna Cement Industries, India)
[3]. Doug Bowman, "*Impact of Wind farm with storage on Electric Grid*", M.S., December 2010 (Working with Southwest Power Pool, AR),
[4]. Shireesha Methuku, "*Modeling of the Biomass Power Generation and Techno-Economic Analysis*", M.S., December 2009 (Working with ERCOT, Texas)
[5]. Ankush Saran, "*Real-Time Modeling, Simulation and Validation of Protective Relays*", M.S., December 2009. (Ph.D. student at Mississippi State University, MS)
[6]. 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 York Power Authority, NY)
[7]. Bharath Ravulapati, "*Development of corrective actions for higher-order contingencies*", M.S., December 2008. (Working with Cross Texas Transmission, TX)
[8]. Abhilash Reddy Masannagari, "*Optimizing the size and location of distributed generators to maximize the grid stability*", M.S., December 2008. (Working with New York Power Authority, NY)
[9]. 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, CA)
[10]. Dina Khaniya, "*Development of three-phase continuation power flow for voltage stability analysis of distribution systems*", M.S., Dec. 2008. (Working at Schneider Electric, SC)

M.S. Thesis Students graduated as Co-Advisor at Mississippi State University

[11]. Vinoth Mohan, "*Advancements in Power System Monitoring and Inter-Operability*", (with Dr. Noel Schulz) M.S., Dec. 2009, (Working with GE Grid Solutions, Redmond, WA),
[12]. Padmavathy Kankanala, "*Optimal Control of Voltage and Power in MVDC Multi-Zonal Shipboard Power System*", (with Dr. Noel Schulz), M.S., December 2009 (PSE&G, Newark, NJ)
[13]. Seetharam Rudraraju, "*Small Signal and Transient Stability Analysis of MVDC Shipboard Power System*", (with Dr. Noel Schulz), M.S., December 2009 (Working with Open System International, Minneapolis, MN)
[14]. Venkata Pendurthi, "*Uncertainty in Measurements and Cognitive Engineering Analysis of a Decision Support System for Power System Reconfiguration*", (with Dr. Noel Schulz), M.S., December 2009 (Working with CompuSharp, Jackson, MS)
[15]. Krishnanjan Gubba Ravikumar, "*Distributed simulation of power systems using Real-Time Digital Simulator*", M.S., August 2009. (with Dr. Noel Schulz) (*Best Graduate Research Assistant Award) (Working with the Google, CA)
[16]. Srinath Kamireddy, "*Comparison of state estimation algorithms considering phasor measurement units and major and minor data loss*", M.S., December 2008. (with Dr. Noel Schulz) (Working with Entergy, Jackson, MS)

M.S. (Non-thesis) Students Graduated as Advisor at Mississippi State University

[17]. Mounika Kurra, M.S., December 2010 (working with Siemens PTI, NY)
[18]. Venkata Surya Subrahmanyam, M.S., December 2010 (Working with PWR Solutions, DNV GL Company, Dallas, TX)
[19]. Sugam Patel, M.S., March 2010. (Working with American Electric Power, TX)
[20]. Bala Ranganath Kondaveeti, M.S., August 2009. (Working with IK Power Systems Solutions, LA)
[21]. Chenfeng Zhang, M.S., December 2008 (Working with Texas Instruments, IN)
[22]. Bharath Annabathina, M.S., Dec. 2008. (Working with New York Power Authority, NY)

V.F. Former Visiting Graduate Scholars

WVU

[1]. Kemal Aygul, Graduate Student (Summer 2023-Summer 2024)
[2]. Samridhi Sajwan, Graduate Student (Fall 2023-Spring 2024)
[3]. Krit Thampanichvong, Graduate Student (Spring 2024-Summer, 2024)
[4]. Pratik Sharma, Graduate Student (Summer 2023)
[5]. Diksha Singh, Graduate Student (Summer 2023)
[6]. Satabdy Jena, Graduate Student (Summer 2022)
[7]. Mehdi Jabbari Zideh, Graduate Student (Summer 2022)

WSU

[8]. Ramyasai S. Bhavirisetty (Spring 2021- Fall 2021)
[9]. Rushabh Shah (Fall 2021)
[10]. Eshwar Nag Pilli, Graduate Intern (Spring 2021- Fall 2021)
[11]. Anshuman, Graduate Intern (Summer 2019-Spring 2021)
[12]. Tejas Ghanwat, Graduate Intern (Fall 2020- Spring 2021)
[13]. Nikhil Doppalapudi, Graduate Intern (Spring 2020- Fall 2020)
[14]. Ali Tamimi, Graduate Intern, Summer 2020 (Supported on NSF)

[15]. Amandeep Saini, Graduate Intern, Spring 2020- Fall 2020 (Supported on NSF/ DOE)
[16]. Aditya Jasuja, Graduate Intern, Fall 2019 (Supported on PSERC)
[17]. Dipankar Medhi, Graduate Intern, Fall 2019 (Supported on DOE GMLC)
[18]. Ehdieh Khaledian, Graduate Intern, Summer 2019 (supported on NSF and DOE)
[19]. Rajarshi Dutta, Graduate Intern, Summer 2019 (Supported by DOE)
[20]. Shreyasi Som, Graduate Intern, Summer 2019 (Supported by DOE)
[21]. Supnirun Suwannasorn, Visiting Graduate Intern, Summer 2019 (Funded by the Asian Institute of Technology (AIT), Bangkok)
[22]. Wasawat Sukrung, Visiting Graduate Intern, Summer 2019 (Funded by the AIT)
[23]. Sittinan Muanchaona, Visiting Graduate Intern, Summer 2019 (Funded by the AIT)
[24]. Chanatta Chaipakdee, Visiting Graduate Intern, Summer 2019 (Funded by AIT)
[25]. Yasmine Ben Miloud, Visiting Graduate Intern, July 2019, (Funded by Fulbright)
[26]. Jayakumar Sreenath, Visiting Graduate Student, Summer 2018 (Supported by ARPA-E)
[27]. Kush Khanna, Visiting Graduate Student, Summer 2018 (Supported by DOE)
[28]. Jiranat Tangchitichariya, Visiting Student, September 2017- January 2018 (Supported by Thailand Government)
[29]. Kalpesh Joshi, Visiting Doctoral Scholar, July 2015- January 2016 (Funded by IIT Gandhinagar, India)
[30]. Frank A. Ibarra, Visiting Doctoral Scholar, January 2013- January 2014 (Partially funded by Sao Paulo University, Brazil)
[31]. Pornchai Chaweewat, Visiting Graduate Intern, Summer 2013 (Funded by Asian Institute of Technology, Bangkok)
[32]. Pathatai Dharmasaroj, Visiting Graduate Intern, Summer 2013 (Funded by Asian Institute of Technology, Bangkok)
[33]. Xiyu Xie, Graduate Student (September 2015-December 2015) (Supported by Siemens)
[34]. Pradya Panyainkaew Visiting Graduate Intern, Summer 2017 (Funded by AIT)
[35]. Patthanapun Boonthong, Visiting Graduate Intern, Summer 2017 (Funded by Asian Institute of Technology, Bangkok)

V.G. Former Undergraduate Research Students

Undergraduate Students at West Virginia University

[1]. Ifenna Ekwenem, Undergraduate Researcher (Fall 2023-Spring 2024)
[2]. Hunter Lavender, Undergraduate Researcher (Fall 2023)
[3]. Camil Coullon, Undergraduate (Summer 2022)

Undergraduate Students at Washington State University

[1]. Brian Ha, REU Student (Spring 2021- Fall 2021)
[2]. Asmita Acharya, Undergraduate Intern on NSF REU (Summer 2021)
[3]. Jayce Gaddis, Undergraduate Intern (September 2018-March 2020)
[4]. Edgar Orozco, Undergraduate Intern (Summer 2020)
[5]. Tori Elizabeth Warner, Undergraduate Intern (Summer 2020)
[6]. Alexandra Beatrice King, Undergraduate Intern (Summer 2020)
[7]. Jonah Davis, Undergraduate Intern on NSF REU (Summer 2020)
[8]. Lauren Smith, NSF REU, Summer 2019
[9]. Hyesun Cha, Research Intern, 2013- 2017 (Supported by DOE, PSERC, EPRI)
[10]. Chuan Qin, Intern (January 2018-December 2018)

[11]. Harshit Bajpai, Visiting Researcher, Summer 2018 (Supported by ARPA-E, NSF)
[12]. Caroline L. Rublein, NSF REU (Summer 2018)
[13]. Christopher Riedeman, NSF REU Intern (January 2018-May 2018)
[14]. Jacob Greig Prine, Research Intern, (May 2016-May 2018)
[15]. Darryl Hicks, Intern (August 2017-December 2017)
[16]. David Bai, NSF REU (June 2017-August 2017)
[17]. Darryl Hicks, NSF REU (June 2017-August 2017)
[18]. Noble Stoneman, NSF REU (June 2017-August 2017)
[19]. Linh Nguyen, NSF REU (June 2016-August 2016)
[20]. Nathan VelaBorja (Summer, 2015-December 2015)
[21]. Glory Obielodan, NSF REU (Summer 2015)
[22]. Sebastian S. Rodriguez (Summer 2015)
[23]. Douglas Rapier (Summer 2014-December 2014)
[24]. Trey Ottaway (Summer 2014)
[25]. Austin Irby (Spring 2013-Spring 2014)
[26]. Alex Loper (Fall, 2013-Spring 2014)
[27]. Matt Tabor (Spring, 2013- Summer, 2013)
[28]. Rory Beckstorm, (Fall, 2012 - Fall 2013)
[29]. Hyojong Lee, (Fall, 2012)
[30]. Abdur Rehman (Fall 2012-Spring 2013)
[31]. Rakesh Goyal (Summer 2012)
[32]. Jared Bestbreuer (Summer 2011)
[33]. Sadiq Anod (REU) (Summer 2011)

Undergraduate Students at Mississippi State University

[1]. Reginal Roby, Mississippi State University, B.S. Student, (Spring and Fall, 2010)
[2]. Udita Singh, Indian Institute of Technology, Delhi, India, (Summer 2009)
[3]. Sri Hari Krishna, Indian Institute of Technology, Kharagpur, India, (Summer 2009)
[4]. Meenakshi Garg, Indian Institute of Technology, Delhi, India, (Summer 2008)
[5]. Nikhil Kumar, Institute of Technology, BHU, Varanasi, India, (Summer 2007)

V.H. Undergraduate Senior Design Projects at WSU

[1]. "High Surge Impedance Loading of High Voltage Transmission Lines", Power Engineers and WSU EECS (2020-2021)
[2]. "Designing Data Management Tool using OpenPDC for Smart Grid Control Application", Supported by DOE (2015-2016)
[3]. "Design of Synchrophasor estimation, monitoring and visualization using PI server and PMU prototype", Supported by DOE (2015)
[4]. "Designing a remedial action scheme using synchrophasors data", Supported by DOE (2014-2015)
[5]. "Designing an open source phasor measurement unit", Supported by DOE (2014)
[6]. "PMU design and prototype", Supported by SGDRIL, ESIC (2012-2013)
[7]. "Feeder Voltage Optimization", Supported by Tacoma Power (2010-2011)
[8]. "Synchrophasor Wide Area Control System", Supported by Schweitzer Engineering Laboratories, Inc., (2010-2011)

V.I. Former High School Interns

WVU

[1]. Rohan Arunkumar, Highschool Student, (Summer 2024)
[2]. Noah Jacob, Highschool Student, (Summer 2024)

[3]. Kashish Vankayala, Highschool Student, (Summer 2024)
[4]. Dev Aggarwal, Highschool Student, (Summer 2023)
[5]. Gauri Kshettry, Highschool Student, (Summer 2023)
[6]. Srikar Kovvuri, Highschool Student, (Summer 2023)
[7]. Simran Saluja, Highschool Student, (Summer 2023)
[8]. Nethan Binu, Highschool Student, (Summer 2022)
[9]. Rohith Madhuker, Highschool Student (Summer 2022)
[10]. Rajat Sengupta, Highschool Student (Summer 2022)

WSU

[11]. Suhani Shukla, Highschool Intern as part of SPARK SIP (Summer 2021)
[12]. Rosie Shen, Highschool Intern as part of SPARK SIP (Summer 2021)
[13]. Rayna Bhattacharyya, Highschool Intern as part of SPARK SIP (Summer 2021)
[14]. James Park, High-school Intern, Summer 2019 (Supported on NSF)
[15]. Siyum Khan, High-school Intern, Summer 2019 (Supported on DOE)
[16]. Darshil Shah, Highschool Research Intern, Summer 2018, 2019 (Supported by PSERC)

V.J. Graduate Thesis External Examiner

[1]. Delft University, Delft, Netherland
[2]. Asian Institute of Technology, Bangkok, Thailand
[3]. Aachen University, Germany
[4]. Aalborg University, Denmark
[5]. Indian Institute of Technology, Roper, India
[6]. Indian Institute of Technology, Kanpur, India
[7]. Indian Institute of Technology, Bombay, India
[8]. Indian Institute of Technology, Roorkee, India
[9]. Indian Institute of Technology, Chennai, India
[10]. Indian Institute of Technology, Varanasi, India
[11]. Indian Institute of Technology, Hyderabad, India
[12]. Indian Institute of Technology, Delhi, India
[13]. Indian Institute of Technology, Guwahati, India
[14]. National Institute of Technology, Srinagar
[15]. National Institute of Technology, Warangal
[16]. Cape Peninsula University of Technology, South Africa
[17]. Faculty of Engineering and Technology, Multimedia University, Malaysia
[18]. Auckland University of Technology, New Zealand

VI. Teaching Experience

VI.A. List of Courses Taught at WVU

Course Number	*Course Name*	*Semester*	*Students*
CSEE 480/CSEE 481	Design and Demonstrate Energy Data-Analytics for smart grid with Solar System	Fall 2024/ Spring 2025	2
CSEE 480/CSEE 481	Srivastava - Developing Attacks Vectors for AI-Powered Intrusion Detection Tool	Fall 2024/ Spring 2025	2

CSEE 480/CSEE 481	"WVU Evansdale Miniature Critical Infrastructure Model with Cybersecurity and Automation Control", Sponsored by DOE and DARPA	Fall 2023/Spring 2024/ Fall 2024/ Spring 2025	2-5
CSEE 480/CSEE 481	"Synchro-phasor based PQ & DTT Applications for DER Interconnects", Sponsored by Baltimore Gas and Electric	Fall 2023//Spring 2024	4
CSEE 480/481	Implementing a cybersecure IEC 61850 protocol-based substation network using Software Defined Networking (SDN), sponsored by SEL	Fall 2022/ Spring 2023	4
CSEE 380 Guest Lectures	Engineering Professionalism Seminar	Multiple semesters	100+

VI.B. List of Courses Taught at WSU

Course Number	***Course Name***	***Semester***	***Students***
EE 361	Electrical Power System	Spring 2021	15
EE 582	Cyber-Power Systems	Fall 2020	8
EE 536 Online	Power System Operation and Electricity Market	Fall 2020	6
EE 361	Electrical Power System	Spring 2020	34
EE 361 Everett	Electrical Power System (Partial)	Spring 2020	18
EE536	Power System Operation and Electricity Market	Fall 2019	18
EE 536 Online	Power System Operation and Electricity Market	Fall 2019	9
EE 582	Cyber-Power Systems	Spring 2019	25
EE 536 Online	Power System Operation and Electricity Market	Fall 2018	13
UI Guest Lecture	Resilient Controls for the Power Grid	Fall 2018	17
EE/ CptS 439	Critical Infrastructure Security: Emerging Smart Grid	Spring 2018	24
EE439 Online	Cyber Infrastructure for the Smart Grid	Spring 2018	1
EE536 Online	Power System Operation and Electricity Market	Fall 2017	16

EE536	Power System Operation and Electricity Market	Fall 2017	14
EE582/ EE439	Critical Infrastructure Security: Emerging Smart Grid	Spring 2016	18
EE439 Online	Cyber Infrastructure for the Smart Grid	Spring 2016	2
EE536 Online	Power System Operation and Electricity Market	Fall 2015	7
EE536	Power System Operation and Electricity Market	Fall 2015	12
EE361	Electrical Power System	Spring 2015	47
EE582/ EE439	Critical Infrastructure Security: Emerging Smart Grid	Spring 2015	28
EE582 Online	Cyber Infrastructure for the Smart Grid	Spring 2015	5
EE582/ EE483	Critical Infrastructure Security: Emerging Smart Grid	Spring 2014	9
EE536	Power System Economics and Electricity Market	Fall 2013	17
EE582/ EE483	Critical Infrastructure Security: Emerging Smart Grid	Spring 2013	26
EE491	Performance of Power System	Fall 2012	34
EE582/ EE483	Critical Infrastructure Security: Emerging Smart Grid	Spring 2012	29
EE361	Electrical Power System	Spring 2012	24
EE581/ EE536	Power System Economics and Electricity Market	Fall 2011	23
EE361	Electrical Power System	Spring 2011	35

VI.C. List of Courses Taught at MSU

Course Number	**Course Name**	**Semester**
ECE8990	Power system economics and deregulation	Spring 2006 and Fall 2008
ECE 8990	Power system operation and control	Fall 2006 and Fall 2009
ECE8990	Electric ship power system (partial)	Fall 2006
ECE8990	Power system modeling and simulation (partial)	Spring 2007
ECE8623	Power system stability, security and vulnerability	Fall 2007
ECE4613/6613	Power system transmission (partial)	Fall 2008

VII. Research Funding/Grants

VII.A. Active Research Grants at WVU

	Title	Source	Role and other PI's	WVU Amount	Time Period
1.	Solar Testbed	DOE/ WVHTF	Role: Technical PI	$2.375M	10/23-9/25
2.	CREATE: Cyber Range Sandbox for Data-driven Security Solutions	WV/Dep. Of Education	Role: Co-PI	$750K	8/23-7/25
4.	**Re**silient **C**omm**u**nities via Risk-driven Infrastructure **P**lanning and Automat**e**d **R**estor**at**ion (Recuperat)	US DoE/ WSU	Role: WVU PI	$150K	8/23-3/26
5.	Developing a Multi-State Smart Grid Deployment Consortium	Appalachian Regional Commission/ TN Tech	Role: WVU PI	$1,816,898	8/23-8/26
6.	Battery Management System Modeling	Newport News Shipbuilding (NNS)	Role: Lead PI	$25,000	8/24-5/25
7	Travel: 2024 International Conference on Smart Grid Synchronized Measurements & Analytics (SGSMA24)	NSF	Role: Lead PI	$20,000	01/24-3/25
8.	STTR Phase I: Datapoint measurements of second life batteries for state of health and state of charge	Parthian/ NSF	Role: WVU PI	$274,951	8/23-3/25
9.	Deployment of a Community-Oriented Interoperable Control Framework for Aggregating and Integrating DERs and Other Grid-Edge Devices (ICF)	DOE/ ComED	Role: WVU PI	$1.7M	12/24-12/28
10.	Artificial Intelligence Cybersecurity Readiness and Future Training (AI-CRAFT)	DARPA/FIU	Role: WVU PI	$1.75M	1/24-12/25

VII.B. Completed Research Grants at WVU

Title	Source	Role and other PI's	Amount and My Share	Time Period

1.	CPS: DFG Joint: Medium: Collaborative Research: Data-Driven Secure Holonic control and Optimization for the Networked CPS (aDaptioN) (Transferred) + US-India Supplement	NSF/ DFG	Role: Lead PI Co-PIs: Drs. Hahn, Wu, Bakken. With MIT, Aachen U in Germany	$810K +$16K REU + $100K ($318,920 to WVU)	1/20-12/24
2.	UI-ASSIST: US-India collAborative for smart diStribution System wIth Storage (Transferred)	DOE/ DST	Role: WVU PI Lead PI: Dr. Schulz, Co-PIs: 30 additional institutions	$1.5M (Total: $39M) ($314,614 to WVU)	10/17-10/23
3.	Augmenting and Advancing Cognitive Performance of Control Room Operators for Power Grid Resiliency (transferred)	NSF	Role: Lead-PI Co-PIs: Drs. Whitney, Hahn, Bose, Lotfifard	$1.378M + $16K REU ($617,595 to WVU)	8/18-8/24
4.	Efficient UltRa Endpoint IoT-enabled Coordinated Architecture (EUREICA) (Transferred)	DOE	Role: WVU PI Lead: MIT, with Princeton, GE, NREL	$279K ($262,006 to WVU	8/20-3/24
5.	SolarSTARTS: Solar-Assisted State-Aware and ResilienT infrastructure System (WVU)	DOE/ Univ. of Utah	Role: WVU PI Others: U of Utah (Lead), PacificCorp, INL, Utah Transit Authority	$450,000 ($299,699 to WVU)	1/20-3/24
6.	Prototype Development of Malicious Device Detection System Using Side-Channel Signals and Machine Learning Algorithms	DoD/ Marshall U.	Role: Co-PI	$119,999	2/23-3/24
7.	Enabling Coal Transition	DOE/ PNNL	Multi-Lab Call	$20K	7/22-10/22

VII.C. Completed Research Grants at WSU

	Title	Source	Role and other PI's	Amount and My Share	Time Period
1.	Grid Ready Energy Analytics Training with Data	DOE/ EPRI	Role: co-PI Lead PI: Dr. Dubey, Other Co-PI: Dr. Mehrizi-Sani	$244K My Share: 20%	4/19-3/24

2.	Federated Predictive Analysis for Power Grid Using Multi Agent Models	PNNL DGRP	Role: WSU PI	$103,562	1/21-8/22
3.	Data-driven Control of DERs & Hybrid PV Plants for Enhancing Voltage Stability Over Multiple Timescales	NSF I/UCRC PSERC	Role: WSU PI Lead: Dr. Ajjarapu (Iowa State)	$220K My Share: 32%	7/21-7/23
4.	Tools for keeping your power ON during extreme events	WSU CGF	Role: WSU PI	$37,948 My Share: 100%	01/21-12/21
5.	*AGGREGATE*: dAta-driven modelinG preservinG contRollable dEr for outaGe mAnagemenT and rEsiliency	DOE	Role: Lead PI Co-PIs: Dr. Dubey With: MIT, GE, SCL, ANL, VT	$900K (Total: $2.29M) My Share: 40% of WSU part	10/17-06/21
6.	AGI Grid SandBox	Pacific Northwest National Lab	Role: WSU PI	$150,000 My Share: 80%	08/19-9/21
7.	Resilient Alaskan Distribution system Improvements using Automation, Network analysis, Control, and Energy storage (RADIANCE)	INL/ DOE	Role: WSU PI With: INL (Lead) and 10+ partners	$400,000 (Total: $6.2M) My Share: 100% of WSU part	11/17-3/21
8.	Development of Prototypical Communications System Models for Cyber-Physical Resiliency Analysis	PNNL DGRP	Role: WSU PI	$96,000 (Mainly for my student)	10/19-9/21
9.	Cyber Resilient Energy Delivery Consortium (CREDC)	Department of Energy	Role: Co-PI PI: Dr. Hahn Co-PI's: Dr. Bose	$1.7M My share: 30%	10/15-9/20
10.	Smart Reconfiguration of Idaho Falls Power Distribution Network for Enhanced Quality of Service	Idaho National Lab/ Department of Energy (DOE)	Role: PI Co-PI: Dr. Liu	$150,000 My Share: 70% of WSU part	08/16-10/18
11.	NSF Workshop on Real-Time Data Analytics for Resilient Electric Grid	NSF	Role: Lead PI	$49K My Share: 100%	5/18-3/19
12.	CPS: Synergy: Collaborative Research: Diagnostics and Prognostics Using Temporal Causal Models for Cyber-Physical	National Science Foundation (NSF)	Role: PI Co-PI: Dr. Liu With: Vanderbilt University (Lead) and North Carolina S. U.	$400,000 +$16K REU Supplement (Total: $999,953)	10/13-09/18

	Systems- A case of Smart Electric Grid			My Share: 60% of WSU part	
13.	Kronos++: Dynamic Knowledge Inference for Real-Time Smart Grid Resiliency Analysis	Siemens	Role: Lead PI Co-PIs: Drs. Hahn, Wu	$80K My Share: 40%	6/19-10/19
14.	CPS: TTP Option: Synergy: Collaborative Research: The Science of Activity-Predictive Cyber-Physical Systems (APCPS)	National Science Foundation (NSF)	Role: co-PI Lead PI: Dr. Cook Co-PIs: Dr. Doppa and Dr. Schmitter-Edgecombe	$1,100,000 My Share: 27%	10/15-12/19
15.	Kronos: Knowledge Base of Real-time Power Event on Heterogeneous Data Streams	Siemens	Role: Lead PI Co-PIs: Drs. Hahn, Wu	$100K My Share: 40%	7/18-5/19
16.	Collaborative Research: The Adoption of an Emerging Technology for Improving the Electrical Delivery System	National Science Foundation (NSF)	Role: Co-PI PI: Dr. Horne With: Brown U. (Lead)	$130,303 My Share: 25% of WSU part	04/16-03/18
17.	Develop a Technique to Derive Static ZIP Load Model from Synchrophasor Data	Electric Power Research Institute (EPRI)	Role: Lead PI	$220,000 My Share: 100%	10/15-9/18
18.	Data Analytics for the Smart Grid (DASG) Workshop	Siemens	Role: Lead PI	$5000 My Share: 100%	7/17-12/17
19.	Advanced Cyber-Physical Analysis for Smart Grid Distributed ICT and IED Resources at RTE France	NSF IUCRC PSERC	Role: Co-PI PI: Dr. Bakken	$311.5K My Share: 55% of WSU part	12/14-12/17
20.	Analyzing Cognitive Flexibility of Control Room Operator with Advanced Decision Support Tools in Extreme Contingencies	Energy Systems Innovation center	Role: Lead PI Co-PI: Drs. Lotfifard, and Whitney	$9,960 My Share: 30% of WSU part	07/16-10/17
21.	Cyber-Physical Security Analytics for Smart Grid	Siemens	Role: Lead PI Co-PI: Dr. Hahn	$99K My Share: 60%	1/17-12/17
22.	Global RT-SuperLab	INL	Role: PI (Idaho National Lab (Lead) with partners)	In-kind Support	6/17-12/17
23.	Deployment and Evaluation of Energy Storage Integrated into the Pullman Smart Grid	Washington State Department of	Role: Co-PI PI: Dr. Liu Co-PI: Dr. Bose	$399,000 (WSU part)	12/15-12/16

	Community	Commerce/ AVISTA/ PNNL	With: AVISTA (Lead)	My Share: 30% of WSU part	
24.	Analyzing the impact of NERC CIP on Power System Operations and Developing Techniques/ Business Plan for Optimal Cybersecurity Requirements	Energy Systems Innovation Center	Role: Co-PI Co-PI: Drs. Hahn, and Sahaym	$10,000 My Share: 30% of WSU part	07/16-06/17
25.	Collaborative Research: Integrated Policy and Engineering Design for Complex Systems with Applications to Smart Distribution System	National Science Foundation (NSF)	Role: PI With: Purdue U. (Lead), (Started as Co-PI and change to WSU PI 09/12)	$150,000 (Total: $350,000) My Share: 100% of WSU part	08/12-08/17
26.	Smart City Testbed at WSU	Murdock Foundation	Role: Co-PI PI: Dr. Liu, Co-PI: Bose, Mani, Bakken, Hauser, Mehrizi-Sani	$1M My Share: 6% (for students and testbed)	9/14-9/17
27.	A Collaborative Educational Program on Synchrophasor Applications for the Smart Electric Grid	Department of Energy (DOE)	Role: Lead PI Co-PIs: Dr. Liu, Dr. Mani and Dr. Bakken	$200,000 (With industry match by OSI, SEL: $1,368,611) My Share: 80%	07/13-12/15
28.	Collaborative Research: Smart Power Distribution System Curriculum - Multi-Institution Demonstration and Deployment	National Science Foundation (NSF)	Role: PI With: Drexel U. (Lead), Cornell U., U. of North Carolina and The College of New Jersey	$87,057 (Total: $599,679) My Share: 100% of WSU part	09/12-08/16
29.	Development of a Smart Phone App for Energy Sustainability	Energy Systems Innovation center	Role: PI Co-PI: Drs. Horne, Kennedy, and Hahn	$9,480 My Share: 20% of WSU part	08/15-06/16
30.	Real-Time Modeling and Simulation Module for the Smart Electric Grid	WSU VCEA Equipment program	Role: PI	$60K My Share: 0% (for test bed)	10/14-12/15

			Co-PIs: Mehrizi-Sani, Hahn, Lotfifard		
31.	Substation Automation and Trip Coil Health Monitoring	Schweitzer Engineering Lab (SEL)	Role: PI Co-PI: Dr. Hauser	$450,000 My Share: 90%	05/11-12/15
32.	Adaptive and Intelligent PMU for Smarter Applications	Power System Engineering Research Center	Role: PI With: Georgia Tech and University of Illinois	$80,000 (Total: $140,000) My Share: 100% of WSU part	06/13-08/15
33.	Student Support for the 2014 North American Power Symposium (NAPS), held at Washington State University, Pullman, WA	National Science Foundation (NSF)	Role: Co-PI PI: Mehrizi-Sani, Co-PI: Bose	$12,000 My Share: 0% (for students)	08/14-06/15
34.	Developing a Battery-Extender Auxiliary Power Unit (BE-APU) for Next-Generation Commercial Airplanes (with Boeing), Phase 3	Joint Center for Aerospace Technology Innovation	Role: Co-PI PI: Liu, Co-PIs: Drs. Ha, Norton, Mehrizi-Sani	$100,000 My Share: 40%	07/14-06/15
35.	Trustworthy Cyber-Infrastructure for the Power Grid	Department of Energy (DOE)	Role: Senior Researcher PI: Dr. Hauser Co-PI: Dr. Bose, Bakken	$194,118 (Total: 1,411,482) My Share: 13%	01/11-08/15
36.	Implementing Smart Meter Applications in Washington State: Institutional Analysis of an Emerging Technological Field	WSU Energy System Innovation Center Seed Grant	Role: Co-PI PI: Dr. Horne Co-PI: Dr. Frickel	$9,200 My Share: 30%	3/14-9/14
37.	Engineering and Sociological Foundations for Smart Distribution Systems	CEA Strategic Investments for Research Excellence Grant	Role: Co-PI PI: Dr. Liu Co-Pis: Dr. Love, Dr. Horne, Dr. Cook	$60,000 + in kind My Share: 40%	10/12-09/14
38.	AVISTA Smart Grid Demonstration Grant	AVISTA/ Department of Energy	Role: PI Co-PI: Dr. Bose (Transferred)	$427,000 My Share: 75%	05/12-09/14
39.	Course Development “Critical Infrastructure Security: The Emerging Smart Grid”	Department of Energy through NSF IUCRC PSERC	Role: PI Co-PIs: Dr. Hauser and Dr. Bakken	$140,000 My Share: 42%	05/11-07/14

40.	Feasibility of a Smart Distribution System for Microsoft Campus	Puget Sound Energy (PSE) and Microsoft	Role: Co-PI PI: Dr. Liu	$80,050 My Share: 50%	06/13-07/14
41.	AVISTA Smart Grid Investment Grant	AVISTA/ Department of Energy	Role: PI Co-PI: Dr. Bose (Transferred)	$140,000 My Share: 60%	05/12-12/13
42.	Developing a Battery-Extender Auxiliary Power Unit (BE-APU) for Next-Generation Commercial Airplanes (with Boeing), Phase 2	Joint Center for Aerospace Technology Innovation	Role: Co-PI PI: Dr. Liu, Co-PIs: Drs. Ha, Norton, Mehrizi-Sani	$127,500 My Share: 30%	07/13-06/14
43.	Testing and Validation of Phasor Measurement-Based Devices and Algorithms	NSF I/UCRC Power System Engineering Research Center	Role: PI With: Georgia Tech	$80,000 (Total: $150,000) My Share: 100%	06/11-08/13
44.	Interconnection Level Transmission Planning Analysis	DOE/ WECC	Role: Senior Researcher PI: Dr. Olsen, Dr. Bose	$24,724 My Share: 100% of my expenditure	01/13-07/13
45.	Training program in clean energy smart grid engineering	Department of Energy (DOE)	Role: Senior Personnel PI: Dr. Bose Co-PIs: Dr. Mani, Dr. Bakken, Dr. Hauser	$46,643 (My expenditure) My Share: 100% of my expenditure	05/12-07/13
46.	Social factors Influencing Implementation and Usage of Smart Grid Technologies	WSU IGIS Grant Application	Role: Co-PI PI: Dr. Horne Co-PI: Dr. Frickel	$5000 My Share: 30%	08/12-06/13
47.	A Nationwide Consortium of Universities to Revitalize Electric Power Engineering Education by State-of-the-Art Laboratories	Department of Energy (DoE)	Role: PI With: University of Minnesota	$4,000 (WSU part) My Share: 100% of WSU part	07/10-07/13
48.	Developing a Battery-Extender Auxiliary Power Unit (BE-APU) for Next-Generation Commercial Airplanes (with Boeing), Phase I	Joint Center for Aerospace Technology Innovation	Role: Co-PI PI: Dr. Liu Co-PIs: Dr. Ha, Dr. Norton	$84,930 My Share: 30%	02/13-06/13
49.	Smart Energy Environments: Design for Human Interaction with Smart Grids	WSU ESIC Seed Grant	Role: Co-PI PI: Dr. Beyreuther Co-PIs: Drs. Cook & Love	$50,000 My Share: 10%	01/13-06/13

50.	Real-Time Operation and Control of Microgrid	WSU Research Office New Faculty Seed Grant	Role: PI	$18,000 My Share: 100%	08/11-08/12
51.	Computational Needs for the Next Generation Electric Grid	Department of Energy (DOE)	Role: PI Co-PI: Dr. Bose With: Vanderbilt University	$5,000 My Share: 60%	10/10-06/11

VII.D. Completed Research Grants at MSU

	Title	Source	Role and other PI's	Amount and My Share	Time Period
1.	Student Travel Support for the 2009 North American Power Symposium, MS	National Science Foundation	Role: PI Co-PI: Dr. Schulz	$10,000 My Share: 0% (For students)	09/09-01/10
2.	Remote, nondestructive testing of power system, Multiple University Research Initiative	Office of Naval Research, through Drexel University	Role: PI Co-PIs: Drs. Schulz, Gao, Ginn (Transferred)	$239,622 My Share: 20%	(5/09-08/10)
3.	Travel funding for attending American Society of Engineering Education, Pittsburgh, PA	MSU Office of Research,	Role: PI	$1800 My Share: 100%	04/08-06/08
4.	Advanced Naval Power Systems through Electric ship system research and development	Office of Naval Research (Prime) through Florida State University	Role: Co-PI PI: Dr. Schulz Co-PIs: Dr. Gao and Dr. Ginn	$600,000 My Share: 1s0%	10/07-9/10
5.	Study of interconnection benefits, strategies and impact of distributed generation on the electric power grid	Department of Energy (DOE)	Role: Co-PI PI: Dr. Schulz Co-PI: Dr. Ginn	$270,000 My Share: 100%	06/07 - 01/10

6.	Adaptive reconfiguration for shipboard power and support systems	Office of Naval Research/ Florida State University	Role: Co-PI PI: Dr. Schulz Co-PI: Dr. Ginn	$150,000 My Share: 100%	10/06-5/07
7.	The Western Interconnection Synchrophasor Project	DOE SGIG through Western Electricity Coordinating Council/ PGE	Role: Senior Researcher PI: Dr. King	$30,000 My Share: 100%	05/10-12/10
8.	Semantic-driven knowledge discovery system for wide-area monitoring of electric power grid	Department of Homeland Security (DoHS)	Role: Senior Researcher PI: Dr. King	$100,000 My Share: 100%	04/07-12/08
9.	High-performance real-time system for hardware in the loop testing and analysis of advanced power and control systems	Department of Defense (DoD), DURIP	Role: Senior Researcher PI: Dr. Schulz	$60,000 My Share: 100%	04/06 - 03/07

VIII. Publications

Publications*# Summary

	Journal	Conference	Books/ Chapters	Patents	Technical Reports/ White Paper
Total Publications	**179**	**225**	**22**	**3**	**33**

Citation Report

	Lifetime Citation Count	h-Index	i10-Index
Google Scholar	**11539**	**53**	**203**

VIII.A. Book/ Book Chapters

[B1.] *A. K. Srivastava*, C. C. Liu and S. Chanda, "Resiliency of Power Distribution Systems", Edited Book, Wiley, 2024.

[B2.] *A. K. Srivastava*, V. Venkataramanan, and C. Hauser, "Cyber Infrastructure for The Smart Electric Grid", Wiley, 2023.

[B3.] *E. Oti Boateng, Md. F. Rafy, P. Sarker, S. Basumallik, and A. K. Srivastava, "Adaptive Resilience Metrics for DER-Rich Electric Distribution Systems", Energy System Resilience and Distributed Generation, Springer, 2024*

[B4.] *Tushar, H. Lee, P. Banerjee, and A. K. Srivastava, "Synchrophasor applications for load estimation and stability analysis", IET Book chapter in Synchronized Phasor Measurements for Smart Grids, 2024*

* ***Students authors advised or co-advised by me (includes collaborative paper resulted from students in my class or as graduate committee member)***

\# ***Authors including visiting students and post-doctoral fellow working in my lab***

[B5.] S. Basumalik, A. Ahmed, S. Pandey, S. K. Sadanandan, and A. K. Srivastava, "Synchrophasor Data Anomaly Detection for Wide-Area Monitoring and Control in Cyber-Power Systems", Wiley Book Chapter, 2024

[B6.] *P. Chatterjee, S. U. Kadir, A. Srivastava, and A. Laszk, "Grid resilience against wildfire with machine learning Machine learning based detection, localization and mitigation of the impact of forest fires on power grids", Big Data Application in Power Systems, Elsevier, 2024*

[B7.] *S. Basumallik, F. Rafy, S. Konar, and A. K. Srivastava, "Holonic Architecture for Cyber-Power Distribution Grid Monitoring and Operation", Control, Communication, Monitoring and Protection of Smart Grids, IET, 2024*

[B8.] G. Kandaperumal, S. Majumder, and Anurag K. Srivastava, "Microgrids as a resilience resource in the electric distribution grid", chapter in the book title, Electric Power Systems Resiliency: Modeling, Opportunity, and Challenges, Elsevier Academic Press, 2022

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[B13.] P. Banerjee[#], S. Pandey[*], *A. K. Srivastava*, D. Lee, "Testing and Validation of Synchrophasor Devices and Applications", In the book titled "*Power System Grid Operation Using Synchrophasor Technology",* (pp. 41-75). Springer, 2018.

[B14.] Tushar[*], H. Lee[*], P. Banerjee[#], and *A. K. Srivastava*, "Synchrophasor Applications for Load Estimation and Stability Analysis", in the IET Power and Energy Series book, Synchronized Phasor Measurements for Smart Grids, 2017.

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[B18.] R. Liu[*], R. Goodfellow, *A. K. Srivastava*, "A Testbed for Closed Loop Cyber-Physical-Social System Simulation and Security Analysis", Book chapter in Cyber-Physical-Social Systems and Constructs in Electric Power Engineering, IET, 2016.

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[B20.] C. Vellaithurai[*], S. Biswas[*], R. Liu[*], and *A. K. Srivastava*, "Real-Time Modeling and Simulation of Cyber-Power System", Edited book by S. Khaitan, J. McCalley, C-C. Liu entitled "Cyber-Physical Systems Approach to Smart Electric Power Grid" for Book series on "Understanding Complex Systems", Springer-Verlag Inc, December 2014.

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[B22.] *A. K. Srivastava* and A. J. Flueck, "Contingency Screening Techniques and Electric Grid Vulnerabilities: Mathematical Modeling, Algorithm Development and Applications", VDM Verlag, ISBN-10: 3836487012, June 2008.

VIII.B. Patents/ Copyright

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VIII.C. Journal Papers

IEEE Transactions, IET Journals, and other IEEE Publications:

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[J4]. Md. F Rafy, E. O. Boateng, V.V. Krishnan, and A. K. Srivastava, "Cyber-Resilient IoT-based Battery Energy Storage Systems in Power Distribution System", IEEE Transactions on Industry Applications, 2024

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[WP5]. IEEE PES Trending technologies, "Energy Equity and Resilience", https://ieee-pes.org/trending-tech/energy-equity-and-resilience/

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[C2]. A. Moradzadeh, M. Mohammadpourfard, S. Pol, A. Pal, M. Malik and A. Srivastava, "Enhanced Dynamic Line Rating Forecasting under Cyber-Attacks via Incremental Learning Frameworks", Texas Power and Energy Conference, 2025

[C3]. R. Arunkumar, N. Patari and A. Srivastava, "ML-Assisted Hyperparameter Tuning for Distributed Voltage Control Algorithm in Distribution Systems", Texas Power and Energy Conference, 2025

[C4]. S. Nazaralizadeh, P. Banerjee, S. Karimi, A. K. Srivastava and P. Famouri, "Very-Short-Term Solar Power Prediction Using a Suboptimal Multiple Fading Kalman Filter", Texas Power and Energy Conference, 2025

[C5]. S. Basumallik, R. Kumar, A. Chowdhury, C. Kumar, B. Mondal, B. Agarwal, D. Biswas, A. Raj, and A. Srivastava, "Strengthening Grid Resilience: Operator Training for Decision Support with Dispatcher Simulators", IEEE PES General meeting, July 2024

[C6]. B. Mccornack, R. Haider, S. Majumder, S. Pannala, A. Srivastava, A. Annaswamy, N. Schulz, "A Comparative Study of Centralized, Distributed and Local Volt-Var Control Algorithms on a Practical Distribution System", IEEE PES General meeting, July 2024

[C7]. H. Mustafa, V Sivaramakrishnan, VVG Krishnan, A Srivastava, "Realistic Synchrophasor Data Generation for Anomaly Detection Using Cyber-Power Testbed", 56th North American Power Symposium (NAPS), 2024

[C8]. L. Nair, V. Krishnan, and A. Srivastava, “Battery Energy Storage Based Robust Wide Area Damping Controller to Mitigate Small Signal Oscillations”, National Power Systems Conference (NPSC), 2024

[C9]. K. G. Ravikumar, and A. K. Srivastava, “Autonomous Detection of Fault-Induced Delayed Voltage Recovery Events”, IEEE Annual Meeting for Industry Applications Society, 2024

[C10]. P. Banerjee, A. K. Srivastava, “Detection and Classification of DC-Arc Faults in PV Systems using Generative Adversarial Network”, IEEE Annual Meeting for Industry Applications Society, 2024

[C11]. S. Sajwan, B. K. Panigrahi, A. Srivastava, “Damage-Based Stochastic Restoration Approach for a Resilient Power Distribution System”, IEEE Innovative Smart Grid Technologies (ISGT) Asia, 2024

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[C13]. S Basumallik, A Chowdhury, D Biswas, D Majumdar, R Sutradhar, B. Agarwal, S. Das, A. Srivastava, “Evaluating Backup Control Center Architecture for Power Grid: Path Forward and Cloud Solutions”, International Conference on Smart Energy Systems and Technologies (SEST), 2024

[C14]. J Adan, D Aggarwal, S Basumallik, A Srivastava, “d-SyncAED: Distribution Synchrophasor Anomaly and Event Detection Tool in Real-Time”, International Conference on Smart Grid Synchronized Measurements and Analytics, 2024

[C15]. HM Mustafa, S Basumallik, C Vellaithurai, A Srivastava, “Threat Detection in Power Grid OT Networks: Unsupervised ML and Cyber Intelligence Sharing with STIX”, 12th Workshop on Modeling and Simulation of Cyber-Physical Energy Systems, CPS Week, 2024

[C16]. P. K Yegorov, A. Lackovitch, E. Dean, H. M Mustafa, S. Basumallik, *and* Anurag Srivastava, “Analyzing GOOSE Security in IEC61850-based Substation Using ML, SDN and Digital Twin”, IEEE North American Power Symposium (NAPS), 2023

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[C22]. J Buckelew, S Basumallik, V Sivaramakrishnan, A Mukhopadhyay, A. Dubey and A. Srivastava, “Synchrophasor Data Event Detection using Unsupervised Wavelet Convolutional Autoencoders”, IEEE SmartSys, Nashville, TN, 2023

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[C39]. A. Acharya, S. Pannala, A. K. Srivastava, and S. R. Bhavirisetty, “Resiliency Planning and Analysis Tool for the Power Grid with Hydro Generation and DERs”, North American Power Symposium, Texas A&M University, November, 2021

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[C54]. G. Kandaperumal, Anshuman, S. Pannala, and A. K. Srivastava, “RMDT: Resiliency Monitoring and Decision-Support Tool for Distribution System During a Pandemic”, Resiliency Week, Oct 2020 ***(second best paper award).***

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[C56]. N. Patari[*], *A. K. Srivastava*, G. Qu, and N. Li, “Distributed Optimal Voltage Control for Three Phase Unbalanced Distribution Systems with DERs”, IEEE IAS Annual Meeting, Detroit, MI, October 2020.

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[C62]. P. Sarker[*], V. Venkataramanan[*], D. S. Cardenas, *A. K. Srivastava*, A. Hahn, and B. Miller, "Cyber-Physical Security and Resiliency Analysis Testbed for Critical Microgrids with IEEE 2030.5", IEEE/ ACM CPSWeek, MSCPES workshop, Sydney, Australia, April 2020.

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[C65]. R. Dutta[*], P. Kundu[#], and *A. K. Srivastava*, "Dynamic State and Parameter Estimation of Distributed Generators using Constraint Recursive Least Square Algorithm and PMU Data", IEEE International conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE), Kerala, India, January 2020.

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[C71]. Y. Zhang[*], C. Qin, and R. K. Sharma, and *A. K. Srivastava*, "Data-Driven Day-Ahead PV Estimation Using Hybrid Deep Learning", IEEE Industrial Application Society Annual Meeting, Baltimore, MD, 2019.

[C72]. V. Venkataramanan[*], P. S. Sarker[*], K. S. Sajan[#], *A. K. Srivastava*, and A. Hahn, "A Real-Time Transmission-Distribution Testbed for Resiliency Analysis", IEEE Industrial Application Society Annual Meeting, Baltimore, MD, 2019.

[C73]. C. Qin[*], J. Greig-Prine[*], Z. Nie[*], P. Banerjee[#], *A. K. Srivastava*, "Remote PMU Testing using Low-cost FPGA Platform and PPA following IEEE TSS", IEEE Industrial Application Society Annual Meeting, Baltimore, MD, 2019.

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[C75]. A. Saber and *A. K. Srivastava*, “Deep Learning based Load Forecasting in Python”, 22nd International Conference on Computer and Information Technology, Dhaka, Bangladesh, 2019

[C76]. S. Pandey*, N. Patari*, *A. K. Srivastava*, “Cognitive Flexibility of Power Grid Operator and Decision Making in Extreme Events”, IEEE PES General Meeting, Atlanta, GA 2019.

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[C197]. P. Mandal, T. Senjyu, A. Yona, J. -W. Park, and *A. K. Srivastava*, "Sensitivity analysis of Similar days parameters for predicting Short-term electricity Price", North American Power Symposium (NAPS), Las Cruces, NM, September 30 - October 2, 2007.

[C198]. N. Kumar#, *A. K. Srivastava*, and N. N. Schulz, "Shipboard Power System Restoration Using Binary Particle Swarm Optimization", North American Power Symposium (NAPS), Las Cruces, NM, September 30 - October 2, 2007.

[C199]. K. R. Padamati*, N. N. Schulz, and *A. K. Srivastava*, "Application of Genetic Algorithm for Reconfiguration of Shipboard Power System", North American Power Symposium (NAPS), Las Cruces, NM, September 30 - October 2, 2007.

[C200]. B. R. Gautam*, N. N. Schulz, and A. K. Srivastava, "Developing a Survivability Index for Distribution Systems Including Islanding", North American Power Symposium (NAPS), Las Cruces, NM, September 30 - October 2, 2007.

[C201]. M. Lin*, *A. K. Srivastava*, and N. N. Schulz, "Modeling Considerations in Static and Dynamic Voltage Stability Studies of Shipboard Power Systems", Summer Simulation Multiconference (SummerSim), San Diego, CA, July 14-19, 2007.

[C202]. C. Zhang*, V. K Vijapurapu*, A. K Srivastava, and N. N. Schulz, J. Bastos, and R. Wierckx, “Hardware-in-the-Loop Simulation of Distance Relay Using RTDS”, Summer Simulation Multiconference (SummerSim), San Diego, CA, Jul 14-19, 2007.

[C203]. P. Mandal, T. Senjyu, N. Urasaki, T. Funabashi, A. Yona, and *A. K. Srivastava*, “Price Forecasting for Day-Ahead Electricity market using Recursive Neural Network”, IEEE PES General Meeting, Tampa, FL, June 24 -28, 2007.

[C204]. N. Schulz, H. Ginn III, S. Grzybowski, *A. K. Srivastava*, and J. 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.

[C205]. N. Schulz, H. Ginn III, S. Grzybowski, *A. K. Srivastava*, and J. Bastos, “Integrating Shipboard Power System Topics into Curriculum”, ASEE annual conference and exposition, Hawaii, June 24–27, 2007.

[C206]. *A. K. Srivastava*, J. Bastos, N. N. Schulz, and H. Ginn III “AC/DC Power System Modeling and Analysis for Shipboard Applications”, IEEE PES GM, Tampa, FL, June 24 -28, 2007.

[C207]. S. Palla*, *A. K. Srivastava*, and N. N. Schulz, “Hardware in the Loop Test for Relay Model Validation”, Proceedings of IEEE Electric Ship Technologies Symposium (ESTS), Arlington, VA, May 21-23, 2007.

[C208]. Q. Yu*, S. Khushalani, J. Solanki, N. N. Schulz, H. L. Ginn III, S. Grzybowski, *A. K. Srivastava*, and J. Bastos, “Shipboard Power Systems Research Activities at Mississippi State University”, Proceedings of IEEE Electric Ship Technologies Symposium (ESTS), Arlington, VA, May 21-23 2007.

[C209]. M. Lin*, *A. K. Srivastava*, and N. N. Schulz, “A Generic Digital Model of Multiphase Synchronous Generator for Shipboard Power System”, Proceedings of IEEE Electric Ship Technologies Symposium (ESTS), Arlington, VA, May 21-23 2007.

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[C211]. J. Wu*, Y. Cheng, *A. K. Srivastava*, N. N. Schulz, and H. L. Ginn III, “Hardware in the loop test for power system modeling and simulation”, IEEE PSCE, Atlanta, GA, Oct. 29 - Nov. 1, 2006.

[C212]. Y. Baez-Rivera*, B. Rodriguez-Medina, and A. K Srivastava, "An Attempt to Forecast Price Spikes in Electric Power Markets" NAP,S Carbondale, IL, Sep. 17-19, 2006.

[C213]. P. Duvoor, K. R Padamati*, S. Kotamarty, and A. K Srivastava, "Impact of FACTS Devices on Transmission Pricing and Loop Flows" NAPS, Carbondale, IL, Sep. 17-19, 2006.

[C214]. P. Mandal, T. Senjyu, N. Urasaki, T. Funabashi, and *A. K. Srivastava*, “Short-term Price Forecasting for Competitive Electricity Market”, NAPS, Carbondale, IL, Sep. 17-19, 2006.

[C215]. J. Solanki*, S. Khushalani, and *A. K. Srivastava*, "A Genetic Algorithm Approach to Price-Based Unit Commitment", NAPS, Carbondale, IL, Sep. 17-19, 2006.

[C216]. S. Kamalasadan, *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, June 18-22, 2006.

[C217]. Q. Yu*, S.-Y. Choe, *A. K. Srivastava*, and W. Gao, “Improved Modeling and control of a PEM fuel cell power system for vehicles”, Proceedings of IEEE South East Conference, Memphis, TN March 30- April 2, 2006.

[C218]. A. Hande, S. Kamalasadan, and *A. K. Srivastava*, “A selective voltage measurement system for series connected battery packs”, Proceedings of IEEE South East Conference, Memphis, TN, March 30-April 2, 2006.

[C219]. *A. K. Srivastava*, S. Kamalasadan, and A. Hande, 'Comparative performance of improved shrinking span fuzzy logic-based controller', Proceedings of IEEE South East Conference, Memphis, TN, March 30-April 2, 2006.

[C220]. S. Kamalasadan and *A. 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, WA, March 23-25, 2006.

[C221]. *A. K. Srivastava* and A. J. Flueck, 'A Novel and Fast Two-Stage Right Eigenvector Based Branch Outage Contingency Ranking', IEEE/PES General Meeting, San Francisco, CA, 12-16 June, 2005.

[C222]. S. C. Srivastava, B. K. Barnwal, *A. K. Srivastava*, D. Paul, P. Gupta, R. M. Shrestha, and R. Shrestha, "A Study on Environmental & Utility planning implications of Distributed power generation for a regional Electricity Board in India" Power System Conference (PSC), Clemson, SC, September, 2002.

[C223]. S. C. Srivastava, *A. K. Srivastava*, U. K. Rout, B. K. Barnwal, M. Sharma, D. Paul, P. Gupta, R. M. Shrestha, and R. 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, FL, November 19-22, 2001.

[C224]. S. C. Srivastava, *A. K. Srivastava*, U. K. Rout, M. Sharma, D. Paul, P. 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), TX, October 15-16, 2001.

[C225]. S. C. Srivastava, *A. K. Srivastava*, U. K. Rout, D. Paul, P. 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, vol. 1, pp. 31-36, Australia, 4-7 December, 2000.

IX. Keynotes/ Invited Talks/ Presentations/ Tutorial

Keynotes/ Plenary/Tutorials/ IEEE Distinguished Lecture:

[ITP1]. *A. Srivastava, "Enabling Cyber-Resilient Smart Grid with Edge Distributed Energy Resources", Keynote at the Workshop on Distributed Energy Resources: Transforming Grids with Renewable Technologies, NIT Jamshedpur, January, 2025*

[ITP2]. *A. Srivastava, "Workforce Need for Equitable and Resilient Energy Transition", Plenary on IEEE PES ISGT, Washington DC, 2024*

[ITP3]. *A. Srivastava, "*Enabling Cybersecure and Resilient Energy Systems Infrastructure*", keynote at the IEEE National Power System Conference (NPSC), Indore, India, 2024*

[ITP4]. *A. Srivastava et. al, "Understanding Voltage Stability: Theory to Industry Practice Considering Inverter Based Resources", IEEE PES Tutorial, Sunday, July, 2024*

[ITP5]. *A. Srivastava, "Enabling Power Grid Resiliency with Physics-Aware Machine Learning", IEEE Distinguished Lecture Talk, Aachen University, Germany, July, 2024*

[ITP6]. *A. Srivastava, "Public Factors in Power Grid Resilience Technology Innovations", Supersession on Role of the Public in Grid Planning and Operations", IEEE PES General Meeting, Seattle, WA, July 2024*

[ITP7]. *A. Srivastava, "Enabling Power Grid Resiliency in IBR-Rich Environment", IIT Varanasi, IEEE Distinguished Lecture, July, 2024*

[ITP8]. *A. Srivastava et.al, "Evaluation of Voltage Stability Assessment Methodologies in Transmission Systems", Voltage Stability Assessment Methods – Adequacy of Existing Methods, CIGRE Tutorial, Sep, 2024*

[ITP9]. *A. Srivastava, "Enabling Cyber-Power Grid Resilience", IEEE IAS Distinguished Lecture, Florida International University, Miami, FL, April 2024*

[ITP10]. *A. Srivastava, "Enabling Resilience of Cyber-Power Grid", Keynote at the International Conference on Intelligent Electrical Systems & Industrial Automation, April 2024*

[ITP11]. *A. Srivastava et. al, "Cyber Infrastructure for Smart Electric Grids: Enhancing Security and Resilience" Workshop at the IEEE 4th Cyber Awareness and Research Symposium (CARS'24), October 2024*

[ITP12]. *A. Srivastava, "Enabling Resilient Cyber-Power Critical Infrastructure with Edge Devices", Ontario Tech Engineering and Applied Science, IEEE Durham Distinguished Lecture, Toronto, Canada, June 2024*

[ITP13]. *A. Srivastava, "*Enabling Resiliency of Power Grid with Renewable Energy and Edge Devices", Keynote at International Conference on Futuristic Technologies in Control Systems & Renewable Energy (ICFCR), September 2024

[ITP14]. *A. Srivastava*, "Physics-Informed Machine Learning for Enabling Grid Resiliency", Keynote, IEEE International Conference on Energy Technologies for the Future Grid, Wollongong, Australia, December 2023

[ITP15]. *A. Srivastava*, "Enabling Power Grid Resiliency in DER-Rich Environment", IEEE IAS Distinguished Lecture, Auckland, New Zealand, December 2023

[ITP16]. *A. Srivastava*, "Physics-Aware AI for Enabling Grid Resiliency", IEEE PES Distinguished Lecture, Indian Institute of Science, Bangalore, India, November 2023

[ITP17]. *A. Srivastava*, "Power system dispatch, energy management, cyber security and resilience**",** WePOWER-SAR100, Large Systems Training Program for mid-career women engineering professionals, August 2023

[ITP18]. *A. Srivastava*, "Challenges and Solutions with Integration of Electric Transportation and Electric Grid", 3rd Sustainable Smart Applications in Cities (SARA Conference), Egypt, May 2023

[ITP19]. A. Srivastava, "ML-based Approaches for Enabling the Cyber-Power Grid Resilience", AUT IEEE Student Branch and University of Auckland IEEE Student Branch, May 2023

[ITP20]. A. Srivastava, "AI and Power Grid", Mississippi State University, April 2023

[ITP21]. A. Srivastava, "Enabling Security and Resiliency of the Cyber-Power Grid", Florida Polytechnic University, FL, April 2023

[ITP22]. *A. Srivastava,* "*Trends in Power System Operation and Control," Workshop in honor of Prof DM. Vinod Kumar, NIT Warangal, January 2023*

[ITP23]. *A. Srivastava,* "*AI and Power Grid: Are we ready?", NPSC, Keynote, December, 2022*

[ITP24]. *A. Srivastava,* "*Tools for Enabling Cyber-Power Grid Resiliency", University of Pittsburgh ECE Webinar, December, 2022*

[ITP25]. *A. Srivastava,* "*Distributed Power Grid Operation and Control to Enable Resilience", 4th International Conference on Electrical Engineering and Control Technologies (CEECT 2022), Shanghai, China, December 2022*

[ITP26]. *A. Srivastava,* "*Data-Driven Operation for Cyber-Power-Human Resiliency", Case Western Reserve University, November 2022*

[ITP27]. *A. Srivastava,* "*Building Cyber-Physical-Human Resiliency for the Power Grid", Keynote at the Second Annual Hybrid Cyber Security Research Symposium (CARS'22), UND, October 2022*

[ITP28]. *A. Srivastava,* "*Enabling Cyber-Physical Resilience of Microgrids", Invited talk, DOE NETL, Sep, 2022*

[ITP29]. *A. Srivastava,* "*Tools for Enabling Cyber-Power Resiliency", Keynote at the Power Engineering Research and Applications (PERA), October 2022, IITK*

[ITP30]. *A. Srivastava,* "AI and Power Grid: Limits, Applications and Path Forward", Tutorial, International Conference on Next-Generation Intelligent Systems, July 2022

[ITP31]. A. Srivastava et. al., "Distributed Optimization for Electric Power Systems: Needs, Algorithmic Developments, and Use Cases", Tutorial at the 2022 IEEE Power & Energy Society General Meeting, July 2022

[ITP32]. *A. Srivastava, "Distributed Optimization and Control for the Resilient Power Grid", IEEE PES University of Puerto Rico Mayaguez Chapter Distinguished Lecturer Seminar, May 23rd, 2022*

[ITP33]. *A. Srivastava and D. Molzahn, "Distributed Optimization and Control for Enabling Power grid resiliency", IEEE PES CAMS Webinar, January 18, 2022*

[ITP34]. *A. Srivastava, "Enabling Resilient Cyber-Physical Electric Grid", Workshop on Smart cities: A Road Map for Future Development, BITS Pilani Hyderabad, January 12, 2022*

[ITP35]. *A. Srivastava, "Event Detection and Classification for Cyber-Power Grid", IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2021), India, December 21, 2021*

[ITP36]. *A. Srivastava, "Enabling Resilience for the DER-rich Power Distribution System", International Conference on Power Systems (ICPS), IIT Kharagpur, India, December 2021*

[ITP37]. *A. K. Srivastava*, "*Enabling Resilient Cyber-Power Grid*", Keynote IIT Roorkee IEEE PES/ IAS Student Chapter, October, 2021

[ITP38]. *A. K. Srivastava*, "Microgrid as a Resilience Resource", Keynote at International Online Conference on Power Engineering Research & Applications, Theme: Future Perspective of Microgrid, IIT Roorkee, September, 2021

[ITP39]. *A. K. Srivastava*, "Career in Academia", Keynote at International SPARC Course on "Enabling Technologies for Electric Transportation", Jaipur, Rajasthan, September, 2021

[ITP40]. *A. K. Srivastava*, "AI Driven Solutions for the Smart Grid Operation and Control", Keynote at International Online Conference on Smart Grid Energy Systems and Control, National Institute of Technology, Kurukshetra, March, 2021

[ITP41]. *A. K. Srivastava*, "Utilizing Microgrid as a Resilience Resource in the Sustainable Electric Distribution System", Keynote at IEEE ICPEE, Bhubaneshwar, India, January 2021

[ITP42]. *A. K. Srivastava*, "Challenges and Solutions with Integration of Electric Transportation and Electric Grid", Keynote at IEEE SEFET, Hyderabad, India, January 2021

[ITP43]. *A. K. Srivastava*, "Cyber-Physical Resiliency of the Future Electric Grid", Tutorial at the IEEE NPSC, Gandhinagar, India, December 2020.

[ITP44]. *A. K. Srivastava*, "Data-Driven Cyber-Physical Resiliency of the Electric Grid", Tutorial at the IEEE ICIT, Buenos Aires, Argentina, February 2020.

[ITP45]. *A. K. Srivastava*, "Data-Driven Tools to Enable Cyber-Physical Resiliency of the Electric Grid", Keynote at the UPCON, Allahabad, India, November 2020.

[ITP46]. *A. K. Srivastava*, "What's Next in Smart(er) Grid", IEEE Distinguished Talk, International workshop on "Electric Power Grid Modernization: Trends, Challenges and Opportunities", Mysore, India, 20-24th July 2020.

[ITP47]. *A. K. Srivastava*, "Challenges and Opportunities in Smart(er) Grid", Keynote at the Five-day Faculty Development Program on Challenges and Opportunities in smart grid, Bangalore, India, July 2020.

[ITP48]. *A. K. Srivastava*, "Three Lessons from Smart Grid for Your Professional Success", Plenary at IEEE Young Professional Program, IEEE International conference on Power Electronics, Smart Grid and Renewable Energy, Kerala, India, January 2020.

[ITP49]. *A. K. Srivastava*, "Integrating Physics with Machine Learning for Enabling the Resilient Electric Power Grid", IEEE Distinguished Lecture, National University of Singapore, Singapore, January 2020.

[ITP50]. *A. K. Srivastava*, "Data-Driven Resiliency Monitoring and Control of the Electric Grid", (with S. Kamalasadan) Tutorial at IEEE International conference on Power Electronics, Smart Grid and Renewable Energy, Kerala, India, January 2020.

[ITP51]. *A. K. Srivastava*, "Situational Awareness and Decision Support for the Renewable-Rich Electric Grid", Keynote at the Albertian Knowledge Summit (AKS), St. Albert College, Kerala, India, December 2019.

[ITP52]. *A. K. Srivastava*, "Situational Awareness and Decision Support for the Renewable-Rich Electric Grid", Keynote at the International Conference on Advances in Energy Management, (ICAEM), JIET, Jodhpur, India, December 2019.

[ITP53]. *A. K. Srivastava*, "Tools for Enabling the Resilient Electric Grid", Keynote at the International Conference on Power Systems, ICPS, Jaipur, India, December 2019.

[ITP54]. *A. K. Srivastava*, "Integrating Physics with Machine Learning for Enabling the Resilient Electric Power Grid", IEEE Distinguished Lecture, Florida International University, Miami, FL, November 2019.

[ITP55]. *A. K. Srivastava*, "Secure, but Not Resilient", Plenary Talk at the North American Power Symposium, Wichita, KS, October 2019.

[ITP56]. *A. K. Srivastava*, "Quality-Aware Synchrophasor Applications for the Resilient Power Grid Operation and Control", Keynote, SICI Conference, Quito, Ecuador, June 2019.

[ITP57]. *A. K. Srivastava*, "Cyber-Physical Data Analytics to Enable Resilient Electric Grid", IEEE Big Data Tutorial Webinar, June 2019.

[ITP58]. *A. K. Srivastava*, "Data-Driven Resilient Operation and Control of the Cyber-Physical Electric Grid", Keynote, International Conference on Smart Grid and Smart City, Berkeley, CA, June 2019.

[ITP59]. *A. K. Srivastava*, "Resiliency Analysis for the Data-Rich Cyber-Physical Electric Grid", IEEE Distinguish Lecture at Beijing Jiaotong Technical University, Beijing, China, May 2019.

[ITP60]. *A. K. Srivastava*, "Measuring and Enabling Electric Grid Resiliency", University of Hawaii, IEEE Distinguished Lecture, January 2019.

[ITP61]. *A. K. Srivastava*, "Enabling Electric Grid Resiliency: Can Data Analytics Help?", Keynote at IEEE National Power System Conference, India, December 2018.

[ITP62]. *A. K. Srivastava*, "Measuring and Enabling Grid Resiliency Against Weather or Cyber events", Invited Tutorial on IEEE T&D Latin America, Lima, Peru, September 2018.

[ITP63]. *A. K. Srivastava*, A. Hahn, S. Chanda, and J. Hong, "Data-Driven Tools for Cyber-Physical Security and Resiliency Assessment: Part 1 and 2", Invited Tutorial at ISGT, Washington DC, February 2018.

[ITP64]. *A. K. Srivastava*, "What's Next in Smart(er) Grid", Keynote at International Conference on Eco-Smart Sustainable Development in Engineering Technology and Management (ESDETM), Udaipur, India, June 2018.

[ITP65]. *A. K. Srivastava* "Resilient and Flexible Electric Grid", Invited Tutorial at IEEE Power Africa, Cape Town, South Africa, June 2018.

[ITP66]. *A. K. Srivastava*, "Applications of Synchrophasors in Power System Operation and Control", IEEE Distinguished Lecture, Singapore, July 25th, 2017.

[ITP67]. *A. K. Srivastava*, "Applications of Synchrophasors in Power System Operation and Control", IEEE Distinguished Lecture, Manila, Philippines, July 26th, 2017.

[ITP68]. *A. K. Srivastava*, "Applications of Synchrophasors in Power System Operation and Control", IEEE Distinguished Lecture, Hyderabad, India, July 31st, 2017.

[ITP69]. *A. K. Srivastava*, "Cyber-Physical Security and Resiliency Analysis of the Electric Grid", Tutorial, North American Power Symposium, Morgantown, WV, September, 2017

[ITP70]. A. K Srivastava, "Cyber-Physical Security and Resiliency of the Electric Grid", Plenary talk, ICPS, Pune, December, 2017.
[ITP71]. *A. K. Srivastava*, "Data-Driven Algorithms for Electric Grid Operation and Control", IEEE Distinguished Lecture, IIT Kanpur, India, August 4th, 2017.
[ITP72]. *A. K. Srivastava*, "What's Next in Smart(er) Grid", IEEE Distinguished Lecture, Integral University, Lucknow, India, August 3rd, 2017.
[ITP73]. *A. K. Srivastava*, "Defining and Enabling Resiliency with the Multiple Microgrid", IEEE Distinguished Lecture, Rolls Royce, Singapore, July 25th, 2017.
[ITP74]. *A. K. Srivastava*, "What's Next in Smart(er) Grid", Keynote, International Conference on Smart Grid and Smart Cities (ICSGSC), Singapore, July 24th, 2017.
[ITP75]. *A. K. Srivastava*, "Defining and Enabling Resiliency with Microgrids", University of Lorraine, France, IEEE Distinguished Lecture, April 14th 2017.
[ITP76]. *A. K. Srivastava*, "Analyzing Cyber Requirements for the Smart Grid Applications", Invited Plenary Talk, SmartGift, London, UK, March 2017.
[ITP77]. *A. K. Srivastava*, "Meeting Synchrophasors Data Quality Requirement for Critical Applications", Keynote, National Power Systems Conference, Orissa, India, December 2016.
[ITP78]. *A. K. Srivastava*, "Defining and enabling microgrid resiliency", Tutorial, IEEE Power Electronics, Drives and Energy Systems, Kerala, India, December 2016.
[ITP79]. *A. K. Srivastava*, "Application of Synchrophasors for Power Grid Operation and Control", IEEE Innovative Smart Grid Conference, Bangkok, Thailand, Full Day Tutorial, November 2015.
[ITP80]. *A. K. Srivastava*, "Synchrophasor Applications for the Smarter Electric Grid**",** Plenary Talk, IEEE National Power System Conference, Guwahati, India, 18-20 December 2014.
[ITP81]. *A. K. Srivastava* "Synchrophasor Applications for the Smart Electric Grid", IEEE Distinguished Lecture, University College of Dublin, Dublin, Ireland, June 12th, 2014.
[ITP82]. *A. K. Srivastava* "Modeling and Simulation for the Analysis of the Cyber-Power System", IEEE Distinguished Lecture, Cardiff University, Cardiff, Wales, June 9th, 2014.
[ITP83]. *A. K. Srivastava* "Cyber-Physical Modeling and Co-Simulation for the Smart Electric Grid", IEEE Distinguished Lecture, Strathclyde University, Glasgow, Scotland, June 6th, 2014.
[ITP84]. *A. K. Srivastava* "Cyber-Physical Modeling and Analysis of the Smart Electric Grid", IEEE Distinguished Lecture, University of Aberdeen, Aberdeen, Scotland, June 5th, 2014.

***Other Talks (Panels, Invited)**:*

[ITP1]. *A. Srivastava, "Physics-Informed Machine Learning for Enabling Resilient Cyber-Power Systems", Penn State EE Graduate Colloquium, November 2024*
[ITP2]. *A. Srivastava, "Anomaly-Aware Distributed Control for DER-Rich Distribution System", NSF Workshop on Enabling Cyber-Resilient Distribution Systems with Edge-IBR, MIT, Cambridge, MA, October 2024*
[ITP3]. *A. Srivastava, "Your Path to Research Funding Success: Strategic Approaches for NSF, DOE, and Beyond", WVU Statler Research Webinar, October 2024*
[ITP4]. *A. Srivastava, "Physics-Informed AI for Grid of the Future, Panel: Role of AI in Grid of the Future", GE Electrification Symposium, October, 2024*
[ITP5]. *A. Srivastava, M. Hussain and J. Gilmer, "Data-Driven Analytics for Enabling Cyber-Resilient Power Grids", PingThings and C2SR UND Webinar, August 2024*
[ITP6]. *A. Srivastava, "Enabling Cyber-resiliency of DER-rich Power Distribution System", Panel on Resiliency of Power System for Sustainability, IEEE PES General Meeting, Seattle, WA, July 2024*

[ITP7]. *A. Srivastava, "*The Evolving Cyber Landscape within the Energy Sector: US View", *Forum for Industry Government and University Research knowledge Exchange (FIGURE), Manchester, UK, June 2024*

[ITP8]. *A. Srivastava, "Enabling Cyber-Resilient Smart Grid with Edge Devices", Workshop on Cyber-Physical Systems (CPS): Cyber Security in Smart Grid, Electric Vehicles, and Autonomous Vehicles, Cardiff, UK June, 2024*

[ITP9]. *A. Srivastava, "Understanding Cyber-Risks in Electric Grid and Proactive Measures", Panel on Cyber-risks and threat intelligence for grid computing infrastructures, RD2C, Pacific Northwest National Lab, May, 2024*

[ITP10]. *A. Srivastava, "Enabling Resilient Smart City Energy Infrastructure", Chishiki-AI Research Summit, Session 3: AI/CI in Sensing and Smart Cities, UT Austin, April 2024*

[ITP11]. *A. Srivastava, and Noel Schulz, "From Distribution Volt-Var Control to Rural Electrification", Panel on Leveraging R&D for Utility field Implementations, IEEE PES ISGT, Washington DC, Feb. 2024*

[ITP12]. *A. Srivastava, "PMU Data Analytics for Event Detection, Classification and Root Cause Analytics", C-DAC, Bangalore, India, November 2023*

[ITP13]. *A. Srivastava, "Challenges and Strategies in Enabling Resilient Cyber-Power-Electric Mobility Systems", Urban Tech Academy Day, Cornell Tech, November 2023*

[ITP14]. *A. Srivastava, "Multiverse and Grid Resiliency", CREPES workshop, University of Texas, El Paso, September 2023*

[ITP15]. *A. Srivastava, "Physics-Informed Machine Learning for Enabling Grid Resiliency", LIDS-EESG Seminar, Massachusetts Institute of Technology, August 2023*

[ITP16]. *A. Srivastava, "Challenges and Solutions with Integration of Electric Transportation and Electric Grid", Cyber Resilient Electric Vehicle Charging Station & Critical Infrastructure Workshop, University of Memphis, August 2023*

[ITP17]. *A. Srivastava,* "Enabling Cyber-Power Grid Security and Resiliency", *CIGRE-NGN Webinar, August 2023*

[ITP18]. *A. Srivastava,* "Federated Inference and Distributed Optimization for Scalable AI", *Clearwater Clean Energy Conference, July 2023*

[ITP19]. *A. Srivastava,* "Voltage stability assessment methods – adequacy of existing methods", *IEEE PES General Meeting Panel, July 2023*

[ITP20]. *A. Srivastava, S. M. H. Rizvi,* "Real-time Parameter Estimation of Power-electronics Interfaced Resources", *IEEE PES General Meeting Panel, July 2023*

[ITP21]. *A. Srivastava, S. Pannala and S. Basumallik,* "Adaptive Resilience Metrics Framework for Distribution System", *IEEE PES General Meeting Panel, July 2023*

[ITP22]. *A. Srivastava,* "Academic Institutes' Roles in the Education of Cybersecurity Experts", *IEEE PES General Meeting Panel, July 2023*

[ITP23]. *A. Mohapatra, A. Srivastava, S. Pannala, A. M. Annaswamy* "Volt-Var Control Schemes for US and India Test Cases", *IEEE PES General Meeting Panel, July 2023*

[ITP24]. *S. Pannala, A. Vosughi, A. Srivastava,* "Event Detection, Classification and Localization in an Active Distribution Grid using Data-Driven System Identification, Weighted Voting and Graph", *IEEE PES General Meeting, July 2023*

[ITP25]. *A. Srivastava, "Tools for Enabling Cyber-Power Grid Resiliency with IoT Services", Smart Energy Systems Security Workshop, The University of Warwick, March 2023*

[ITP26]. V. Sivaramakrishnan, *M. Mustafa Hussain, S Basumallik, P Banerjee and A. K Srivastava, "A High-Fidelity Real-Time Cyber-Power Operation Testbed for Grid Resiliency and Security", RTDS Applications and Technology Conference, May 2023*

[ITP27]. *A. Srivastava, "Physics-Informed Machine Learning for Enabling Grid Resiliency", The Alan Turing Institute for Data science and artificial intelligence, March, 2023*

[ITP28]. *A. Srivastava and A. Saxena, "Integrating DERs into Active Power Distribution: Challenges and Solutions", PSEG, NJ, April, 2023*

[ITP29]. *A. Srivastava, "AWR Metrics for Operational Resilience Monitoring using RT-RMOD", IEEE PES Grid Resilience Workshop, University of Utah, September 2022*

[ITP30]. *A. Srivastava, "Validating Cyber-Physical Resilience Metrics and Tools using Testbed", IEEE PES Grid Resilience Workshop, University of Utah, September 2022*

[ITP31]. *A. Srivastava, "Cyber-physical Energy resilience", Panel at the Evolving Energy, Morgantown, August, 2022*

[ITP32]. M. M. Hussain, S. Basumallik and A. Srivastava, "Cyber Power Test-bed Development & Cyber Security Analytics for Smart grid resiliency", RTDS User Spotlight Series 2.0, July 2022

[ITP33]. A. Srivastava and S. Majumder, "Proactive Control to Minimize Impact of Extreme Events on the Power Grid", Super Session panel presentations for the 2022 IEEE Power & Energy Society General Meeting, July 2022

[ITP34]. A. Srivastava, S. Rizvi and C. Qin, "Estimating IBR Model Parameters, Aggregated Model and Impact on Voltage Stability", panel presentations for the 2022 IEEE Power & Energy Society General Meeting, July 2022

[ITP35]. A. Srivastava, A. Ahmed, and S. Basumallik, "Physics-inspired ML for Power Grid Data Anomalies and Events Detection", Super Session panel presentations for the 2022 IEEE Power & Energy Society General Meeting, July 2022

[ITP36]. A. Srivastava, "Teaching data-driven power grid operation through real time testbed", panel presentations for the 2022 IEEE Power & Energy Society General Meeting, July 2022

[ITP37]. A. Srivastava, S. Konar, J. Adan and S. Majumder, "Distributed Optimization for the Resilient Power Grid", panel presentations for the 2022 IEEE Power & Energy Society General Meeting, July 2022

[ITP38]. P. Sarker, S. Sadanandan and S. Basumallik, "Microgrid Resiliency Assessment Tool with IoT Devices", panel presentations for the 2022 IEEE Power & Energy Society General Meeting, July 2022

[ITP39]. N. Schulz, S. Pannala and A. Srivastava, "Federated Testbed: Collaboration for Transitioning Research Validation to Field Implementation", panel presentations for the 2022 IEEE Power & Energy Society General Meeting, July 2022

[ITP40]. A. Srivastava, S. Pannala and S. Majumder, "Real-Time Resiliency Monitoring and Decision Support (RT-RMOD)", panel presentations for the 2022 IEEE Power & Energy Society General Meeting, July 2022

[ITP41]. A. Srivastava, "*Measuring and Enabling Power Grid Resiliency in DER-Rich Environment", John Hopkins University, May 27th, 2022*

[ITP42]. A. Srivastava, "*Measuring and Enabling Power Grid Resiliency", Virginia Tech Northern Virginia Campus, May 26th, 2022*

[ITP43]. A. Srivastava, "Situational Awareness and Decision Support for Enabling Power Grid Resiliency", MIT LIDS/EESG 2022 Spring Seminar Series "Changing Electric Energy Systems: Challenges and Opportunities, April 20th, 2022

[ITP44]. A. Srivastava, "Enabling Power Grid Resiliency", The Department of Electrical and Computer Engineering, Cullen College of Engineering, University of Houston, March 28th, 2022

[ITP45]. C. Qin, A. K. Srivastava, K. Davies, A. Y. Saber, "Estimating behind the meter DER and Analyzing impact on Load", DOE UI-ASSIST Webinar, March 24th, 2022

[ITP46]. A. Srivastava, "Distributed Optimization and Control for the Resilient Power Grid," IIT Palakkad Technology IHub Foundation (IPTIF) Oorja Webinar, February 9th, 2022

[ITP47]. A. Srivastava, "*Adaptive Power Grid with Increasing EVs", NSF Workshop on Adaptable Transportation and Power Systems, University of Washington, WA, December 2021*

[ITP48]. A. Srivastava, "*Introduction to Smart(er) Grid and Path Forward", IEEE PES Student Branch, BMSCE, Bangalore, December 2021*

[ITP49]. A. K. Srivastava, "Physics-Inspired ML for Cyber-Physical Event Detection, Classification and Root Cause Analytics", NSF/ IEEE ML workshop, November 2021

[ITP50]. A. K. Srivastava, "Cyber-Power Data Analytics to Enable Resilient Electric Grid", Clarkson University, NY, November 2021

[ITP51]. A. Srivastava and S. Sadanandan, "Tools for Cyber-Resiliency of the Power Grid with DERs", IEEE PESGM 2021

[ITP52]. N. Schulz, A. Srivastava, S. Pannala, "Lessons Learned from University Microgrid Updates and Implementations", IEEE PESGM 2021

[ITP53]. A.K. Srivastava, "Enabling Operational Resilience for the DER-rich Active Power Distribution System", IEEE PES Day Webinar, Columbus, OH, April 2021

[ITP54]. N. Schulz and A. Srivastava, "Enabling Operational Resilience for the DER-rich Active Power Distribution System", Edison Electric Institute, April 2021

[ITP55]. A. K. Srivastava, "Epistemology of Electric Grid Resilience", ComEd, March 2021

[ITP56]. A. K. Srivastava, "Cyber-Power Interdependence Modeling and Resiliency Analysis", Webinar for IEEE PES TF on Cyber-Physical Interdependence for Power System Operation and Control, February, 2021.

[ITP57]. Z. Huang, A. Srivastava and D. Wang, "GridSandbox: End-to-end Analytics for Grid Architectural Design and All-hazard Assessment", PNNL-WSU AGI Day, February, 2021.

[ITP58]. *A. K. Srivastava*, "Microgrid as a Resilience Resource in the Distribution System", IEEE PES Tech Talk, Palouse Section, November 2020.

[ITP59]. A. K. Srivastava, "Synchrophasor Data Analytics for Anomaly Detection, Classification, and Localization in the Electric Grid", Grid Science Winter School and Conference, Lawrence Livermore National Lab, January 2021.

[ITP60]. *A. K. Srivastava*, "Enabling the Resilient Electric Grid", PSERC Webinar, November 2020.

[ITP61]. *A. K. Srivastava*, "*AI Driven Solutions for the Power Grid Operation and Control*", ATAL FDP on 'Application of Artificial Intelligence in Power System Operation and Control', NIT Calicut, India, November 2020.

[ITP62]. *A. K. Srivastava*, E. Andersen, and A. Ashok, "Enabling Power Grid Resiliency: Tools for Operators and Cognitive Analysis", Advanced Grid Institute/ ESIC Webinar, October 2020

[ITP63]. D. Wang, J. Lian, S. Sadanandan, and *A. K. Srivastava*, "GridSandbox: End-to-end Analytics for Grid Architectural Design and All-hazard Assessment", Advanced Grid Institute/ ESIC Webinar, September 2020.

[ITP64]. S. Pannala, S. Partha, K.S. Sajan and *A. K. Srivastava*, "Tools for Measuring and Enabling Operational Resiliency with DERs", IEEE PES General Meeting Panel Session, August 2020.

[ITP65]. *A. K. Srivastava*, S. M. H. Rizvi, K. G. Ravikumar, "Impact of Active Distribution System on Transmission System Voltage Stability and Control for FIDVR", IEEE PES General Meeting Panel Session, August 2020.

[ITP66]. A. K. Srivastava, "Anomaly and Event Detection, Classification, Localization and Root Cause Analytics for the Decision Support", PSERC Summer Workshop, July 2020.

[ITP67]. *A. K. Srivastava*, "Challenges and Opportunities in Smart(er) Grid", FDP on Challenges and Opportunities in Smart Grid, Ramaiah Institute of Technology, 20-24 July 2020.

[ITP68]. *A. K. Srivastava*, "What's Next in Smart(er) Grid," International workshop on Electric Power Grid Modernization: Trends, Challenges and Opportunities, NIE Mysore, 20-24 July 2020.

[ITP69]. *A. K. Srivastava*, “Data-Driven Tools for Cyber-Physical Resiliency of the Electric Grid”, Advanced Grid Institute Meeting, April 2020.

[ITP70]. *A. K. Srivastava*, “IEEE PES Synchrophasor Applications in Power System Operations and Control”, NERC Synchronized Measurement Subcommittee (SMS) Meeting, April 2020.

[ITP71]. *A. K. Srivastava*, “Integrating Physics with Machine Learning for Enabling the Resilient Electric Power Grid”, IIT Roorkee, India, December 2019 .

[ITP72]. *A. K. Srivastava*, “Integrating Physics with Data Analytics for Cyber-Physical Event Detection, Classification and Root Cause Analysis”, Workshop on Cyber-physical Security Analytics for the Power Grid by Siemens and Princeton University, Princeton, October 2019.

[ITP73]. *A. K. Srivastava*, “Tools for Enabling the Resilient Electric Grid”, EMS Working Group, North American Electric reliability Corporation, Atlanta, GA, October 2019.

[ITP74]. *A. K. Srivastava*, “Measuring and Enabling the Cyber-Physical Resiliency of the Electric Grid”, Panel on Enhancing Cyber-Physical Security and Resilience of Smart Grid, INFORMS Annual Meeting, Seattle, WA, October 2019.

[ITP75]. *A. K. Srivastava*, “Challenge and solutions with electrification of transportation and electric grid integration”, Workshop on Research challenges in Smart and Connected Communities presented by the rapid integration of mobility and electrical infrastructure, NSF PI Meeting, Alexandria, VA, October 2019.

[ITP76]. *A. K. Srivastava*, “Measuring and Enabling Resiliency of the Electric Grid”, National Renewable Energy Lab, August 2019.

[ITP77]. *A. K. Srivastava* and A. Hahn, “Enabling Cyber Physical Resilience of the Electric Grid”, PSERC Meeting, Sedona, AZ, July 2019.

[ITP78]. *A. K. Srivastava* and M. Kezunovic, “PMU Data Quality-Aware Applications and Applications Aware Sensing”, PSERC Meeting, Sedona, AZ, July 2019.

[ITP79]. *A. K. Srivastava*, “Enabling the Resilient Cyber-Physical Electric Grid”, Arizona State University, July 2019.

[ITP80]. *A. K. Srivastava*, “Data Analytics for the Resilient Cyber-Physical Electric Grid”, Panel, ISGT Asia, Chengdu, China, May 2019.

[ITP81]. *A. K. Srivastava*, “Augmenting and Advancing Cognitive Performance of Control Room Operators for Power Grid Resiliency”, JSIS Meeting, Salt Lake City, UT, May 2019.

[ITP82]. *A. K. Srivastava*, “Enabling Resilient Electric Grid”, Opening Plenary for Resiliency Workshop, ISGT Asia, Chengdu, China, May 2019.

[ITP83]. V. Venkataraman, *A. K. Srivastava*, and A. Hahn, “Cyber-Physical Resiliency Experimentation using RTDS”, RTDS User conference, May 2019.

[ITP84]. *A. K. Srivastava*, “PMU Data Analytics for the Resilient Electric Grid”, PSERC Webinar, April 2019.

[ITP85]. *A. K. Srivastava*, “Data-Driven Resiliency Analysis for the Cyber-Physical Electric Grid”, University of Nevada, Reno, April 2019.

[ITP86]. *A. K. Srivastava* and S. Pandey, “PMU Metrology and Quality-Aware Power Grid Applications”, PMU Metrology Workshop, Pacific Northwest National Lab, Richland, WA, April 2019.

[ITP87]. *A. K. Srivastava*, “Measuring and Enabling Electric Grid Resiliency: A data-driven approach”, University of California Berkley, February 2019.

[ITP88]. *A. K. Srivastava*, “Enabling Resilient Electric Grid”, Invited talk at NSF Workshop and Data Analytics and DER integration, IIT Mumbai, January 2019.

[ITP89]. *A. K. Srivastava*, “Cyber-Physical Security and Resiliency of the Electric Grid”, Invited talk at regional Power System Operation Corporation (POSOCO), Bangalore, December 2018.

[ITP90]. *A. K. Srivastava*, "Smart Grid Operation and Control", IEEE Workshop on the Smart Grid, Bhubaneshwar, Orissa, December 2018.
[ITP91]. *A. K. Srivastava*, "Smart Grid Begins with You", Invited talk at IEEE IAS Young Professional Program, Chennai, India, December 2018.
[ITP92]. *A. K. Srivastava* "Power Up Your Future", WSU Freshman/ Sophomore Outreach Event, September 2018.
[ITP93]. *A. K. Srivastava*, "Measuring and Enabling Resiliency in Microgrids", Invited talk at Microgrid Symposium, Bucharest, Romania, September 2018.
[ITP94]. D. Bakken, *A. K. Srivastava*, A. Askerman, and V. Krishnan, "Resilient Distributed Control Using Fog Computing", Invited panel at IEEE PESGM 2018, Portland, August 2018.
[ITP95]. *A. K. Srivastava*, V. V. G Krishnan, S. Suresh, "Cyber-Physical Simulation Architecture for Distributed Control and Transactive Energy", Invited panel at IEEE PESGM 2018, Portland, August 2018.
[ITP96]. *A. K. Srivastava*, "Meeting Synchrophasor Data Quality Requirement for Critical Applications", PEAK Reliability Coordinator, Vancouver, WA, July 2018.
[ITP97]. *A. K. Srivastava*, "Electric Power Grid and Energy issues", Pacific Northwest Economic Region Annual Summit, Spokane, WA, July 2018.
[ITP98]. *A. K. Srivastava*, "Defining and Enabling Resiliency in the Electric Power Grid", Invited talk at Workshop on Smart Grid and Computational Approaches, Kadir Has University, Istanbul, Turkey, May 2018.
[ITP99]. *A. K. Srivastava*, "Quality-Aware Synchrophasor Applications in Power System Operation", Invited talk at Workshop on Smart Grid and Computational Approaches, Kadir Has University, Istanbul, Turkey, May 2018.
[ITP100]. P. Banerjee, *A. K. Srivastava*, E. Farantatos, and M. Patel "Model validation with PMU Emulator and using PNNL EKNF tool", JSIS, May 2018.
[ITP101]. *A. K. Srivastava*, "Data Quality-Aware Synchrophasor Applications in Power System Operation and Control", University of Porto, Porto, April 2018.
[ITP102]. Tushar, V. Vignesh, P. Banerjee, and *A. K. Srivastava*, "Enhancing the System Resiliency using PMU based RAS Scheme", NASPI Meeting, April 2018.
[ITP103]. *A. K. Srivastava*, A. Hahn, V. V. G. Krishnan, Y. Zhang, K. Kaur, A. Ahmed, J. Pi, S. Suresh, "Cyber Physical Security Analysis for Transactive Energy Systems", IEEE Smart Grid Webinar, March 2018.
[ITP104]. *A. K. Srivastava*, "Measuring and [Enabling] Resiliency of the Cyber-Physical Power Grid", Power and Energy Automation Conference (PEAC), Spokane, March 2018.
[ITP105]. *A. K. Srivastava*, "Mitigation, Remedial Actions and Resiliency of the Electric Grid", Invited talk at Department of Homeland Security, FEMA Region X Power Grid Risk Workshop, February 2018.
[ITP106]. *A. K. Srivastava*, "Wide Area Monitoring and Control of Cyber Power Systems", Short course sponsored by GIAN, NIT Warangal, India, December 2017.
[ITP107]. *A. K. Srivastava*, A. Hahn, V. V. G. Krishnan, Y. Zhang, K. Kaur, P. Jiaxing, and S. Suresh, "Data Analytics for Cyber Physical Security Analysis", The Cyber Resilient Energy Delivery Consortium (CREDC) Northwest Workshop, Richland, WA, November 28-29, 2017.
[ITP108]. V. Venkataramanan, *A. K. Srivastava*, A. Hahn, and S. Zonouz, "Metrics and Tools for Measuring Cyber Resiliency of Electric Grids", The Cyber Resilient Energy Delivery Consortium (CREDC) Northwest Workshop, Richland, WA, November 28-29, 2017.
[ITP109]. *A. K. Srivastava*, "Enabling Electric Grid Resiliency", Panel On: Long-term Challenges and Directions to Achieve Grid Security and Resiliency, NSF CPS PI meeting, Arlington, VA, November 14, 2017.

[ITP110]. *A. K. Srivastava*, "PMU Emulator for Power System Dynamics Simulators", Joint Synchronized information Subcommittee, Westminster, CA, October 11-13, 2017.
[ITP111]. *A. K. Srivastava*, "SyncAD: Ensemble Based Data Mining Tool for Anomaly Detection In PMU data and Event Detection", Joint Synchronized information Subcommittee, Westminster, CA, October 11-13, 2017.
[ITP112]. A. Hahn, *A. K. Srivastava*, J. Pi, and S. Suresh, "Cyber-Security Analytics for Transactive Energy Systems", Data Analytics in Smart Grid (DASG) Workshop, Pullman, WA, 28th August 2017.
[ITP113]. Y. Wu and *A. K. Srivastava*, "Ensemble based Technique for Synchrophasor Data Anomaly and Events Detection", Data Analytics in Smart Grid (DASG) Workshop, Pullman, WA, 28th August 2017.
[ITP114]. *A. K. Srivastava*, "Data Analytics for Synchrophasor Data Anomaly Detection and Cybersecurity", Panel Session: Data Science Education and Research in Power System, IEEE PESGM, Chicago, IL, July 19th, 2017.
[ITP115]. *A. K. Srivastava*, "Cyber-Resilient Remedial Control Action Schemes to Manage Wind Curtailment", Panel Session: Security Analysis and Control of Cyber-Physical Systems (CPS), IEEE PESGM, Chicago, IL, July 20th, 2017.
[ITP116]. *A. K. Srivastava*, "Fault-Tolerant Distributed Computing Platform for Resilient Control in Cyber-Power System", Panel Session: Resilient Control Systems for Cyber Physical Power and Energy Systems, IEEE PESGM, Chicago, IL, July 20th, 2017.
[ITP117]. *A. K. Srivastava*, "Data-Driven Algorithms for Power Grid Operation and Control", Delft University of technology, TU-Delft, Netherland, July 14th, 2017.
[ITP118]. *A. K. Srivastava*, "Data-Driven Algorithms for Power System Operation and Control", RWTH Aachen University, Aachen, Germany, June 30th, 2017.
[ITP119]. *A. K. Srivastava*, "Data-Driven Algorithms for Power System Operation and Control", IIT Kharagpur, India, June 13th, 2017.
[ITP120]. *A. K. Srivastava*, "Defining and Enabling Resiliency in the Active Distribution System", IIT Kharagpur, India, June 13th, 2017.
[ITP121]. *A. K. Srivastava*, "What's Next in Smart(er) Grid", TCS Bangalore, India, June 2nd, 2017.
[ITP122]. *A. K. Srivastava*, "Defining and Enabling Resiliency of the Electric Grid", Indian Institute of Science, Bangalore, India, June 1st, 2017.
[ITP123]. *A. K. Srivastava*, "Data Mining based Anomaly Detection In PMU Measurements and Event Detection", Joint Synchronized information Subcommittee, Salt Lake City, UT, May 2017.
[ITP124]. *A. K. Srivastava*, "Data-Driven Algorithms for Power System Operation and Control", RTE-France, April 13th, 2017.
[ITP125]. *A. K. Srivastava*, "Defining and Enabling Resiliency of Electric Power Systems with renewable Energy and Microgrids", North American Electric Reliability Corporation, Atlanta, GA, March 3rd, 2017.
[ITP126]. *A. K. Srivastava*, "Ensemble Based Technique for Synchrophasor Data Quality and Analyzing its Impact on Applications", NASPI, March 2017.
[ITP127]. *A. K. Srivastava*, "Failure Diagnosis and Cyber Intrusion Detection in Transmission Protection System Assets using Synchrophasor Data", NASPI, March 2017.
[ITP128]. *A. K. Srivastava*, "Cyber-Physical Analysis for PMU Data Quality and Synchrophasor Applications", WSU Tri-Cities, February 22nd, 2017.
[ITP129]. *A. K. Srivastava*, "Data-Driven Algorithms for Power System Operation and Control", Pacific Northwest National Lab, Richland, WA, February 1st, 2017.
[ITP130]. *A. K. Srivastava*, "Microgrid HIL Simulation and Defining and Enabling Resiliency with Multiple Microgrids", MIT Lincoln Lab, January 20th, 2017.

[ITP131]. B. Cui, P. Banerjee, and *A. K. Srivastava*, "Failure Diagnosis in Transmission Protection System Using Synchrophasor Data", NASPI, Seattle, October 2016.
[ITP132]. H. Lee, P. Banerjee, *A. K. Srivastava*, E. Farantatos, and M. Patel, "PMU Emulator for Power System Dynamics Simulators and Model Validation", NASPI, Seattle, October 2016.
[ITP133]. A. Hahn and *A. K. Srivastava*, "Cyber-Physical Smart Grid Testbeds at Washington State University", Panel, IEEE ISGT, September 2016.
[ITP134]. *A. K. Srivastava*, "Synchrophasor Applications and Impact of Data Quality", Rutgers University, Princeton, NJ, August 19, 2016.
[ITP135]. *A. K. Srivastava*, "Cyber-Physical Analysis of Synchrophasor Applications", Drexel University, Philadelphia, PA, August 17, 2016.
[ITP136]. *A. K. Srivastava*, "Energy Management and Control Algorithms for Microgrids", Harvard University, Cambridge, MA, July 29, 2016.
[ITP137]. *A. K. Srivastava*, "Research Activities at Smart Grid Demonstration and Research Investigation Lab (SGDRIL)", Online Webinar to Siemens, June 2016.
[ITP138]. *A. K. Srivastava*, "Cyber-Physical Analysis of Synchrophasor Applications", Power Engineering Forum, Schweitzer Engineering Lab, April 27, 2016.
[ITP139]. *A. K. Srivastava*, "PMU Data Quality and Impact on Critical Smart Grid Applications", IEEE PES Young Professionals Webinar Series, April 25, 2016.
[ITP140]. *A. K. Srivastava*, H. Lee, M. Zhou, P. Banerjee, E. Farantatos, and M. Patel, "Making Dynamic Simulations Output Comparable to Synchrophasor Measurements of PMUs", NASPI International Symposium, Atlanta, GA, March 2016.
[ITP141]. *A. K. Srivastava*, "Advances in Power System Operation and Control Using Synchrophasors (PMUs)", Full Day Workshop, Central Power Research Institute/ IEEE, January 8th, 2016.
[ITP142]. *A. K. Srivastava*, "Analyzing Impact of PMU Data Quality on Critical Smart Grid Applications", Indian Institute of Technology, Kanpur, India, December 18th, 2015.
[ITP143]. *A. K. Srivastava*, "What's Next After the Smart Grid", ICAER, Mumbai, December 17th, 2015.
[ITP144]. *A. K. Srivastava*, "Meeting PMU Data Quality Requirements for Mission Critical Applications" Webinar for Power Systems Engineering Research Center (PSERC), November 17th, 2015.
[ITP145]. A. Mallikeswaran, P. Banerjee, *A. K. Srivastava*, D. Bakken, and P. Panciatici, "ERKIOS: In-field Testing and Validation of Synchrophasor based Remedial Action Scheme (RAS)", NASPI, Chicago, IL, October 2015.
[ITP146]. Tushar and *A. K. Srivastava*, "Real Time Voltage Stability Monitoring & Control (RTVSMAC)", Joint Synchronized Information Subcommittee, WECC, Salt Lake City, UT September 2015.
[ITP147]. Tushar and *A. K. Srivastava*, "Data Mining Application for PMU bad data detection", Joint Synchronized Information Subcommittee, WECC, Salt Lake City, UT September 2015.
[ITP148]. *A. K. Srivastava*, "Real Time Voltage Stability Monitoring and Control (RTVSMAC)", Idaho Power, Boise, ID August 22nd, 2015.
[ITP149]. *A. K. Srivastava*, "Synchrophasor Research Work at Smart Grid Demonstration and Research Lab", Hydro-Quebec IREQ, Montreal, Canada, July 10th, 2015.
[ITP150]. *A. K. Srivastava*, "CYBER-Physical and smart grid fundamentals", TCIPG Summer School, Chicago, IL, June 15th, 2015
[ITP151]. C. -C. Liu, *A. K. Srivastava*, and A. Hahn, "Smart City Testbed", Energy Systems Workshop, Carnegie Mellon University, PA, March 2015.
[ITP152]. H. Lee, R. Liu, and *A. K. Srivastava*, "PMU Emulator and Animation for Synchrophasor Education (SynchroEd)", NASPI Meeting, March 2015.

[ITP153]. *A. K. Srivastava*, "Analyzing Impact of PMU Performance on Wide Area Applications Using Modeling and Simulations", Webinar at Electric Power Research Institute (EPRI), February 2015.
[ITP154]. *A. K. Srivastava*, "Applications of Synchrophasors for Power Grid Operation and Control**",** Synchrophasor workshop at Central Power Research Institute (CPRI), Bangalore, India, January 6th, 2015.
[ITP155]. *A. K. Srivastava*, "Smart grid demonstration and research investigation lab**",** Information Science Institute (ISI), Marina Del Rey, CA, December 12th, 2014.
[ITP156]. *A. K. Srivastava*, "Synchrophasor Device Testing and Voltage Stability Applications for the Electric Grid", Electric Reliability Council of Texas (ERCOT), Austin, TX, October 24th, 2014.
[ITP157]. *A. K. Srivastava*, "Real Time Voltage Stability Monitoring & Control (RTVSMAC) and PMU Performance Analyzer (PPA) for Control Center Applications", Lower Colorado River Authority, Austin, TX, October 24th, 2014.
[ITP158]. *A. K. Srivastava*, "Real Time Voltage Stability Monitoring of Power Systems Using 'RT-VSM Tool", New York Power Authority (NYPA), October 17th, 2014.
[ITP159]. *A. K. Srivastava*, "Real Time Voltage Stability Monitoring of Power Systems Using 'RT-VSM Tool", Webinar to PJM Interconnection, October 2nd, 2014.
[ITP160]. *A. K. Srivastava*, "Energy Management and Control Algorithms for Active Distribution Systems", Oregon State University, Corvallis, OR August 14th, 2014.
[ITP161]. *A. K. Srivastava*, "A Cyber-Power Security Course at Washington State University for Smart Grid Workforce Development", Panel Session: Educational Tools for the Workforce Development for the Future Grid to Enable Sustainable Energy Systems, IEEE Power and Energy Society general Meeting, Washington DC, July 31st, 2014.
[ITP162]. *A. K. Srivastava*, "Robust Control and Energy Management Algorithms for Microgrid", Panel Session, IEEE Power and Energy Society general Meeting, July 29th, 2014.
[ITP163]. *A. K. Srivastava*, "Modeling, Simulation and Analysis of Cyber-Power Systems", NSF US-China workshop, Nanjing, China, May 15th, 2014.
[ITP164]. *A. K. Srivastava*, "Testing and Validation of Synchrophasor Devices and Applications", PSERC Public Webinar, May 6th, 2014.
[ITP165]. *A. K. Srivastava*, "Cyber-Physical System Security for the Smart Electric Grid", University of Texas, El Paso, TX, March 21st, 2014.
[ITP166]. *A. K. Srivastava*, "Modeling and Analysis of Cyber-Power System", New Mexico State University, Las Cruces, NM, March 21st, 2014.
[ITP167]. *A. K. Srivastava*, "Smart Grid and Renewable Integration", ICUE preconference workshop, Pattaya, Thailand, March 18th, 2014.
[ITP168]. *A. K. Srivastava*, "Smart Grid Technology and Synchrophasor Applications", Asian Institute of Technology, Bangkok, Thailand, March 17th, 2014.
[ITP169]. *A. K. Srivastava* "Educational Program on Synchrophasor Applications", Washington State University", Power System Conference, Clemson, SC, March 13th, 2014 (panel).
[ITP170]. *A. K. Srivastava*, "Robust Control and Energy Management Algorithms for Microgrid", Power System Conference, Clemson, SC, March 13th, 2014 (panel).
[ITP171]. *A. K. Srivastava*, "Testing PMUs using the PMU Performance Analyzer (PPA)", North American Synchrophasor Initiative (NASPI) meeting, Knoxville, TN, March 12th, 2014.
[ITP172]. *A. K. Srivastava*, "Online Wide-Area Voltage Stability Monitoring and Control: RT-VSMAC", North American Synchrophasor Initiative (NASPI) meeting, Knoxville, TN, March 12th, 2014.
[ITP173]. *A. K. Srivastava*, "Smart Grid and Smart City Pullman", Washington Utilities and Transportation Commission, January 2014 (Tutorial)
[ITP174]. *A. K. Srivastava*, "Research Activities Related to Microgrid and Distribution System", Brown bag seminar, National Renewable Energy Lab (NREL), October 21st, 2013.

[ITP175]. *A. K. Srivastava*, "Smart Grid technology", IEEE Toronto Section Seminar Series, Toronto, Canada, October 10th, 2013.
[ITP176]. *A. K. Srivastava*, "Security Analysis with Incomplete Information and Cyber-Physical Simulation for Power Grid", University of Toronto, Toronto, Canada, October 11th, 2013.
[ITP177]. *A. K. Srivastava*, "The WSU Microgrid", Santiago, Chile, September 2013 (Panel).
[ITP178]. A. K Srivastava, "Control Algorithms for Active Distribution Systems", IIT Delhi, India, July 8th, 2013.
[ITP179]. *A. K. Srivastava*, "Energy Management and Control for Active Distribution Systems", IIT Kanpur, July 16th, 2013.
[ITP180]. *A. K. Srivastava*, "RT-VSMAP: A 'Non-recursive' Algorithm for Real Time Voltage Stability Analysis", Symposium on Electric Power Control Center, Bedford Springs, PA, June 2013.
[ITP181]. *A. K. Srivastava*, "Power System Fundamentals", TCIPG Summer School, Chicago, IL, June 2013 (Tutorial).
[ITP182]. *A. K. Srivastava*, "Cyber-Physical Simulation and Security Analysis with Incomplete Information", University of West Virginia and IEEE Pittsburgh Section Seminar Series, Morgantown, WV, June 5, 2013.
[ITP183]. *A. K. Srivastava*, "RT-VSMAP: A 'Non-recursive' Algorithm for Real Time Voltage Stability Analysis", JSIS meeting, Salt Lake City, UT, June 2013.
[ITP184]. *A. K. Srivastava*, "Synchrophasor based Voltage Stability and Real Time Implementation", Argonne National Lab, Chicago, IL, May 28th 2013.
[ITP185]. *A. K. Srivastava*, "Phasor Measurement (Estimation) Units", Relay School, Pullman, WA, March 2013 (Tutorial).
[ITP186]. *A. K. Srivastava*, "Education in workforce development", PSERC Public Webinar in collaboration with 5 other faculty members, March 2013.
[ITP187]. *A. K. Srivastava*, "Northwest Smart Grid Demonstration and Implementation Projects", NSF Workshop on US-China Collaboration for Smart Grid, Arlington, VA, February 28th, 2013 (panel).
[ITP188]. *A. K. Srivastava*, "Testing of Power Engineering Algorithms and Devices for Smart Grid", Power and Energy Conference, Sanya, China, January 1st, 2013.
[ITP189]. *A. K. Srivastava*, "Operation and Control of Active Distribution Systems", Tsinghua University, Beijing, China, January 3rd, 2013.
[ITP190]. *A. K. Srivastava*, "Applications of Synchrophasors and Microgrid Control", Zhejiang University, Hangzhou, China, December 2012.
[ITP191]. *A. K. Srivastava*, "Smart Grid Status in Washington", Smart Grid Forum, Seattle, WA, November 13th, 2012 (Invited Panel).
[ITP192]. *A. K. Srivastava*, "Technical and Economical Impact of Energy Storage Devices on Electric Grid", Great Lakes Smart Grid Symposium, Chicago, IL, September 2012 (Invited Panel).
[ITP193]. A. K. Srivastava, "Synchrophasor Applications and Microgrid Control" Montana State University, Bozeman, MT, July 2012.
[ITP194]. *A. K. Srivastava*, "Testing and Validation of Power Engineering Algorithms and Devices for Smarter Electric Grid", Northwest Public Power Association (NWPPA) Conference, Spokane, WA, April 2012.
[ITP195]. *A. K. Srivastava* and S. S. Biswas, "Overview of Synchrophasor Test Bed @ SGDRIL, WSU", Workshop on Testing and Validation of Synchrophasor Devices and Algorithms, WSU, Pullman, WA, March 2012.
[ITP196]. *A. K. Srivastava*, "Modeling and Simulation for the Smart Grid", Arizona State University, Phoenix, AZ, September 10th, 2011.

[ITP197]. *A. K. Srivastava*, "2nd year faculty panel", New faculty Orientation, WSU, August 15th, 2011.
[ITP198]. *A. K. Srivastava*, "Real Time Modeling and Simulation for Smart Grid", Indian Institute of Technology, New Delhi, India, June 10th, 2011.
[ITP199]. *A. K. Srivastava*, "Testing and Validation of Smart Grid Algorithms and Devices", Indian Institute of Technology, Kanpur, India, May 30th, 2011.
[ITP200]. *A. K. Srivastava*, "Smart Grid Modeling and Simulation", Royal Institute of Technology, KTH, Stockholm, Sweden, May 18th, 2011.
[ITP201]. *A. K. Srivastava*, "Validation of Smart Grid Algorithms and Devices Using Real Time Simulation", University of Idaho, Moscow, ID, February 24th, 2011.
[ITP202]. *A. K. Srivastava*, "Real-time Modeling and Simulation for Future Power Grid", University of Idaho, IEEE Palouse Section Meeting, November 18th, 2010.
[ITP203]. *A. K. Srivastava*, "Power up your Future", Imagine U, Middle School and High School, November 23rd, 2010.
[ITP204]. *A. K. Srivastava*, "Technical and Environmental Impact of Integrating Distributed Generation with Electric Grid and Microgrid", University of Washington, Seattle, WA, October 14th, 2010.
[ITP205]. *A. K. Srivastava*, "Smart Power Grid: Research Opportunities and Making it Reality", Vanderbilt University, Nashville, TN, November 13th, 2009.
[ITP206]. *A. K. Srivastava*, "Modeling and Simulation of Next Generation Smarter Electric Grid", Tennessee Tech University, Cookeville, TN, November 13th, 2009.
[ITP207]. A. K. Srivastava, "Engineering the Future Power Grid with Increased Security Measures", Indian Institute of Science, Bangalore, India, May 15th, 2009.
[ITP208]. *A. K. Srivastava*, "Application of Real Time Modeling and Simulation in Power System Research", Central power research institute (CPRI), Bangalore, India, May 15th, 2009.
[ITP209]. S. K. Srivastava, *A. K. Srivastava*, A. Minerick, and N. N. Schulz, "International students' challenges in U.S. graduate schools", MAIE Annual Conference, Mississippi State University, MS, Feb 2009.
[ITP210]. S. Kamireddy, V. Mohan, *A. K. Srivastava*, and N. 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.
[ITP211]. *A. K. Srivastava*, "Self-Describing and Controllable Power Grid", PMU application user group meeting, Entergy, New Orleans, LA, September 19th, 2007.
[ITP212]. *A. K. Srivastava*, "Power System Research Activities at Mississippi State University", ECE Distinguished Speaker Seminar Series, Concordia University, Montreal, Canada, 31st August 2007.
[ITP213]. *A. K. Srivastava*, "Voltage Collapse Contingency Screening", IEEE invited lecture seminar series, Electrical Engineering department, IIT, Kanpur, India, 5th July 2006.
[ITP214]. *A. K. Srivastava*, "Voltage Collapse Contingency Screening and Power Grid Vulnerabilities", ECE Distinguished Speaker Seminar Series, Department of ECE, Illinois Institute of Technology, Chicago, IL, 15th April 2005.

X. Awards/ Honors/ Scholarships

- IET Smart Grid Paper Award, 2023
- IEEE Fellow for the Power Grid Resiliency, 2021
- Fellow, Asia-Pacific Artificial Intelligence Association, 2022
- EECS Research Excellence Award in the School of Electrical Engineering and Computer Science, Washington State University, 2020
- Student paper award, runner-up, Resilience Week, September 2020

- IEEE PES Service Recognition Award as a Chair of Award Subcommittee, IEEE PES, 2019
- WSU research office for continued relationship with Industry recognition, 2019
- Fellow, Frontiers of Engineering Education, National Academy of Engineering (NAE), Santa Ana, CA, September 2012
- Student won 1st award in Poster Contest, PSERC, December 2018
- Student won 2nd award in Undergraduate category Poster Contest, PESGM, 2017
- Student won the second prize in oral presentation graduate category, Wiley WSU Academic Showcase, Pullman, WA, 2015
- Student won 1st and 2nd award in Graduate category Poster Contest, IEEE T&D, Chicago, IL, 2014
- Student won 1st award in Undergraduate category Poster Contest, IEEE T&D, Chicago, IL, 2014
- Student won 2nd award in Poster Contest, IEEE PESGM, Vancouver, BC, 2013
- Student won 2nd award in Poster Contest, IEEE PES T&D, Orlando, FL, 2012
- Student won 2nd award in Poster Contest, IEEE PES PSCE, Phoenix, AZ, 2011
- Best paper prize award, “An Effort to Optimize Similar Days Parameters for ANN Based Electricity Price Forecasting", Energy Systems Committee, IEEE Industry Application Society, 2009
- Technical Committee working group recognition award, working group on multi-agent systems, IEEE PES Power system analysis, computing and economics committee, 2008
- Young engineer award, Young Engineer Poster Competition (YPC), IEEJ Annual meeting, University of the Ryukyus, Japan, 2006
- Best Teaching Assistant Award, Star of the Month, IIT, Chicago, IL, 2005
- Certificate of highest standards of academic achievement from Graduate College, IIT, Chicago, IL, 2005
- Clinton Stryker Distinguished Service Award, Nominee, IIT, Chicago, IL, 2005
- Dean’s Tuition Scholarship, IIT, Chicago, IL, 2001

XI. Service Activities

XI.A. Professional Service

Conference Chair/Technical Chair/ Co-Chair

- Conference Chair, IEEE/CIGRE The International Conference on Smart Grid Synchronized Measurements and Analytics 2024 (SGSMA 2024), Washington DC, 2024
- Workshop co-chair, NSF Workshop on Enabling Cyber-Resilient Distribution Systems with Edge-IBR, Massachusetts Institute of Technology, Cambridge, MA, October 2024
- Workshop on Cyber Infrastructure for Smart Electric Grids: Enhancing Security and Resilience, IEEE 4th Cyber Awareness and Research Symposium (CARS'24), October 2024
- Workshop on Modeling and Simulation of Cyber-Physical Energy System, CPSWeek, Hongkong China, May 2024
- Workshop on Modeling and Simulation of Cyber-Physical Energy System, CPSWeek, San Antonio, TX, April 2023
- Symposium Technical Chair, IEEE SmartGridComm 2021
- Workshop Co-Chair, “Measuring and Enabling Power Grid Resilience: Challenges and Solutions”, Resilience Week, October, 2021

- Steering committee member, NSF/ PSERC Executive Forum on Grid at the "Edge": Interfacing Legacy Grids operated by Utilities with Emerging Grid Components Owned and Operated by Third Parties, 2020-2021
- Workshop Co-Chair, WS-2: Machine Learning and Big Data Analytics in Power Transmission Systems, IEEE SmartGridComm, AZ, 2020
- Organizing Committee Member, NSF Sponsored, "Forging Connections between Machine Learning, Data Science, & Power Systems Research, NSF, Alexandria, VA, March 2020.
- Workshop on Modeling and Simulation of Cyber-Physical Energy System, CPSWeek, Sydney, Australia, April 2020
- Symposium Co-Chair, Communications and Networking, IEEE SmartGridComm, China, 2019
- Workshop on Modeling and Simulation of Cyber-Physical Energy System, CPSWeek, Montreal, Canada, April 2019
- NSF sponsored "Data analytics workshop for the power grid resiliency", Portland, OR, 2018
- Workshop on Modeling and Simulation of Cyber-Physical Energy System, CPSWeek, Portugal, March 2018
- Data Analytics Workshop in Smart Grid, Sponsored by Siemens, Pullman, WA, August 2017
- Workshop on Modeling and Simulation of Cyber-Physical Energy System, CPSWeek, Pittsburgh, PA, March 21, 2017
- IEEE Workshop on Synchrophasors Applications, Singapore, Philippines and India, July 2017
- North American Power Symposium, technically sponsored by IEEE, Washington State University, September 2014 (attendees: 229)
- Tutorial on Phasor Measurement Unit, WSU Relay School, March, 2013 and 2014
- Workshop on Testing and Validation of synchrophasor devices and applications, Pullman, WSU, March 2012 (around 80 attendees)

Technical Program Committee Member

- IEEE SmartGridComm 2012, 2013, 2019 and 2020
- MSCPES, CPSWeek, 2012-2022
- Power System Computation Conference (PSCC), Poland 2014
- International Conference and Utility Exhibition on Green Energy (ICUE), Thailand, 2014
- International Conference on Modern Power and Energy System (ICMPES), India, 2013
- International Conference on Diagnostics, Czech Republic, 2013
- Power and Energy Engineering Conference, Sanya, Hainan, China, 2013
- IEEE South East Conference, Memphis, TN, USA, 2006

Editorial Board Member

- IEEE Transactions on Industrial Applications, 2019-Present
- Elsevier Sustainable Computing: Informatics and Systems: SUSCOM, 2018-2021
- Past Editor, IEEE Transactions on Power Systems, 2018-2021
- Past Editor, IEEE Transactions on Smart Grid, 2015-2019
- Past Editor, IET Generation, Transmission and Distribution, 2016-2019
- Past Editor, Journal of Modern Power Systems and Clean Energy, 2018-2019

Guest Editor for Special Issues

- IET GTD special issue on “Next Generation of Synchrophasor-based Power System Monitoring, Operation and Control”, 2020
- IEEE TII special issue on, “Deep learning and data analytics to support the smart grid operation with renewable energy”, 2020
- IET Generation, Transmission and Distribution, “Emerging Trends in System Integrity Protection Schemes (SIPS) for Improving the Performance of Smart Grid”, 2019
- IEEE Transaction on Industry Applications, “Security, Reliability, Privacy, and Quality in Industrial Automation and Control”, 2019
- IET Smart Grid, “Machine Learning in Power Systems”, 2019
- IET Smart Grid, “Definition, Quantification, Analysis and Enhancement of Grid Resilience”, 2019
- IEEE Transactions on Industrial Informatics, “Cloud Computing in Smart Grid Operation and Management”, 2018
- IET Smart Grid, “Cyber Physical Systems for Power Distribution Systems”, 2018

Reviewer

Journal and Conferences:

- IEEE Transactions on Power System
- IEEE Transactions on Smart Grid
- IEEE Transactions on Power Delivery
- IEEE Transactions on Sustainable Energy
- IEEE Transactions on Energy Conversion
- IEEE Transactions on Industrial Electronics
- IEEE Transactions on Education
- IEEE Power Engineering Society Letters
- IEE Proc. on Generation, Transmission & Distribution
- European Transactions on Electric Power
- International Journal of Engineering Education

Research Proposal Reviewer:

- National Science Foundation, USA
- Department of Energy, USA
- Science Foundation, Croatia
- National Science and Engineering Research Council, Canada
- Canada Foundation for Innovation, Canada
- National Research Fund, Qatar
- Bonneville Power Administration, USA
- The Implementation Group, Inc, USA
- King Fahd University of Petroleum and Minerals, Saudi Arabia
- Oak Ridge Associated Universities, USA and Kazakhstan

External P&T Reviewer:

- University of Vermont,
- Stony Brook University
- Indian Institute of Technology, Chennai, India
- University of Connecticut
- Oregon State University
- Texas Tech University
- Syracuse University

- Stonybrook University
- Arizona State University
- Clarkson University
- Iowa State University
- University of Houston
- Michigan State University
- Asian Institute of Technology
- King Abdullah University of Science and Technology
- Indian Institute of Technology, Kanpur
- York University
- University of Texas
- New Mexico State University
- Clemson University
- University of Central Florida
- University of Tennessee
- Penn State University
- University of Utah

Other Professional Service:

- IEEE Fellow Evaluating Committee, 2023-Present
- IEEE PES Fellow Nomination Committee, 2022-present
- Advisory Board, WVU Tech, 2021-Present
- Session Chair, “Advanced Tools and Metrics for Microgrid Development and Performance Evaluation”, Panel, IEEE PES General Meeting, July 2024
- Session co-chair, “Research to Implementation for Distribution Grid Operation”, IEEE PES ISGT, Washington DC, Feb, 2024
- Advisory committee, IEEE International Conference on Industrial Electronics: Developments & Applications (ICIDeA-2023), Sep. 2023
- Session Chair, “Distribution Grid Resilience: Metrics and Integration into Planning/ Operation”, IEEE PES General Meeting, July 2023
- Session Chair, “Microgrid Applications and Demonstrations: Lessons learned”, IEEE PES General Meeting, July 2023
- Chair Professorship Review Committee, WVU, 2022 and 2023
- IEEE PES Graduate Scholarship Review Committee, 2020-2022
- Industry Liaison, SmartGridCom, 2020
- Advisor, ERIGrid2: European Research Infrastructure supporting Smart Grid, 2020-
- Post-COVID lab reopening preparation committee, EECS, VCEA, 2020
- Session Co-Chair, “Opportunities and challenges for voltage stability with power-electronics interfaced components”, IEEE PESGM Panel 2022
- Session Co-Chair, “Tools and Metrics for Microgrid Design and Evaluation”, IEEE PESGM Panel 2022
- Session Co-Chair, “Utilizing distribution system assets and DER for transmission system voltage stability”, IEEE PES General Meeting, August 2020
- Session Co-Chair, “Data-Quality Aware Synchrophasor Applications”, IEEE PES General Meeting, August 2020
- Session Chair, “Power System Dynamic Performance 2”, IEEE PES General Meeting, August 2020

- Session Co-Chair, “Research and Education in Distribution Management System with DERs for Resilient Grid”, IEEE PES General Meeting, August 2020
- Session Chair, IEEE International conference on Power Electronics, Smart Grid and Renewable Energy, “Management and Control in Smart Grid”, Kerala, India, January 2020
- Session Chair, IEEE North American Power Symposium (NAPS), “DER Management”, Wichita, KS, October 2019
- Session Chair, IEEE IAS Annual Meeting, “Management and Control in the Smart Grid”, Baltimore, MD, October 2019
- Session Co-Chair, “Integrating Resiliency into Operational Practice”, IEEE PES General Meeting, Atlanta, GA 2019
- Session Co-Chair, “Microgrid Tools: Design, Optimization, Business Case and Resiliency”, IEEE PES General Meeting, Atlanta, GA 2019
- Session Co-Chair, “Challenges and solutions for Synchrophasor Data Quality in Power System Operation”, IEEE PES General Meeting, Atlanta, GA 2019
- Session Chair, IEEE T&D Latin America, Lima Peru, September 2018
- Session Chair, North American Power Symposium, Fargo, North Dakota, September 2018
- Session Chair, IEEE IAS Annual Meeting, Portland, OR, September 2018
- Session Co-Chair, “Measuring and Enabling Resiliency using Microgrid”, IEEE Power and Energy Society General Meeting, Portland, OR, August 2018
- Session Co-Chair, “Challenges and Solutions in Implementing Synchrophasor Applications at the Control Center”, IEEE Power and Energy Society General Meeting, Portland, OR August 2018
- Session Co-Chair, “Computational Infrastructure for Distributed Control in the Power Grid”, IEEE Power and Energy Society General Meeting, Portland, OR August 2018
- Session Co-Chair, “Cyber Physical Power System Simulation: Technology and Practice”, IEEE Power and Energy Society General Meeting, Portland, OR August 2018
- Review Committee Member, WSU Academic Showcase, 2018
- Session Co-Chair, “Security Analysis and Control of Cyber-Physical Systems (CPS)”, IEEE Power and Energy Society General Meeting, Chicago, IL, July 2017
- Session Co-Chair, “Lessons Learned from Implementing Portable and Reconfigurable Microgrids for Resilient Operation” IEEE Power and Energy Society General Meeting, Chicago, IL, July 2017.
- Session Co-Chair, “Measuring and Enabling Resiliency using Microgrid”, IEEE Power and Energy Society General Meeting, Boston, MA, July 2016
- Session Chair, “Integrating Synchrophasor Research into Education”, IEEE Power and Energy Society General Meeting, Boston, MA, July 2016
- Session Chair, International Conference on Advances in Energy Research (ICAER), Mumbai, India, December 2015
- Session Co-Chair, “Power System Control I”, IEEE Industrial Application Society, Addison, TX, October 2015
- Session Co-Chair, “Power System Stability II”, North American Power Symposium, Charlotte, NC, October 2015
- Session Co-Chair, “Cyber-Physical Educational Modules**”,** IEEE Power and Energy Society General Meeting, Denver, CO, July 2015
- Session Co-Chair, “Microgrid as a Resource for Resiliency”, IEEE Power and Energy Society General Meeting, Denver, CO, July 2015
- Session Co-Chair, “Lessons-Learned from Microgrid Implementation**”,** IEEE Power and Energy Society General Meeting, Denver, CO, July 2015

- Session Co-Chair, “Microgrid Operation in Contingencies and Recovery”, IEEE Power and Energy Society General Meeting, Washington DC, July 2014
- Session Chair, “Intelligent Controls for Microgrids”, Power System Conference, Clemson, SC, March 2014
- Session Chair, ‘Microgrid’, North American Power Symposium, Manhattan, KS, September 2013
- Session Chair, ‘Hands-on Activities for Pre-Engineering Outreach’, IEEE PES General Meeting, Vancouver, BC, July 2013
- Session Chair, ‘Synchrophasors and Smart Meters’, North American Power Symposium, Urbana, IL, September, 2012
- Session Co-Chair, ‘Military Microgrid’, IEEE PES General Meeting, San Diego, CA, July 2012
- Member, IEEE PES Scholarship review committee, 2011-2016
- Session Chair, ‘Protection II’, North American Power Symposium, Boston, MN, August 5-6, 2011
- Session Chair, ‘Educational Research Methods Potpourri II’, American Society of Engineering Education Annual Conference, Vancouver, BC, Canada, June 26-29, 2011
- Session Chair, ‘Resources for K-12 Outreach’, IEEE PES General Meeting, Detroit, MI, July 24-28, 2011
- Session Chair, ‘Power Electronics in Power System II’, North American Power Symposium, Arlington, TX, September 26-28, 2010
- Member, DG integration Committee, ASME, 2010-11
- Member, PDC-PMU communication committee, NASPI, 2010-11
- 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, Louisville, KY, June 20-23, 2010
- 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, Mississippi State, MS, October 2009
- 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 26th, 2009
- Judge, Student Poster Contest, IEEE PES General Meeting, Calgary, Canada July 26-30, 2009
- Session Co-Chair, ‘Power System Dynamic Performance I’, Power System Conference and Exposition (PSCE), Seattle, WA, March 15-18, 2009
- Session Chair, ‘Power System Dynamic Performance II’, Power System Conference and Exposition (PSCE), Seattle, WA, March 15-18, 2009
- Session Chair, ‘Voltage Stability and Contingency Analysis’, North American Power Symposium (NAPS), Calgary, Canada, September 28 – 30, 2008
- Judge, Student paper competition, North American Power Symposium (NAPS), Calgary, Canada, September 28 – 30, 2008

- Secretary, NAPS steering committee, 2008
- Chair, Student support program, IEEE PES T&D conference, April 20-24, 2008, Chicago, IL
- Session Chair, 'Control of Power System Components', NAPS, Las Cruces, NM, September 30 –October 2, 2007
- Judge, Student paper competition, NAPS, Las Cruces, NM, Sep. 30 - Oct. 2, 2007
- Judge, Student poster competition, PES, Tampa, FL, June 24-28, 2007
- Judge, Student presentation, ESCAPE, MSU, Mississippi State, MS, March 2-3, 2007
- Judge, Student paper competition, PSCE, Atlanta, Georgia, Oct. 29-Nov. 1 2006
- Session Chair, 'Distributed Generation and Renewable Energy I', NAPS, Carbondale, IL, Sep. 17-19, 2006
- Judge, Student paper competition, NAPS Carbondale, IL, Sep. 17-19, 2006
- Judge, Student poster competition, IEEE PES General Meeting, Montreal, Canada, June 2006
- Judge, Student poster competition, IEEE Transmission & Distribution Conference, Dallas, TX, May 2006
- Judge, Student poster competition, ISAP, Washington DC, November 2005
- Judge, Mississippi Region V Elementary and Secondary Science and Engineering Fair, Mississippi State, MSU February 28 - March 1, 2007
- Judge, Mississippi Region V Elementary and Secondary Science and Engineering Fair, MSU, March 2006
- Judge, Ethics competition, SECON, Memphis, TN, April 2006
- Chaired electrical engineering, computer and embedded system engineering and general engineering track at IEEE South East Conference, Memphis, TN March 30-April 2, 2006
- Judge, Mississippi State Science and Engineering Fair, MSU, April 2006

XI.B. Professional Affiliations

- IEEE (Student Member, 2000-2005, Member, 2005-2009, Senior Member, 2009-present, Fellow, 2022-present)
  - IEEE Power Engineering Society (2002-Present)
    - Bulk Power System Operation Subcommittee (BPSO), PSOPE (Chair: 2022-present, Vice-Chair, 2020-2022, Secretary: 2018-2019)
      - IEEE Task Force on Synchrophasor Applications in Control Center (Chair: 2017-Present)
      - Operational Tools for Enabling Resiliency, PSOPE, (co-Chair: 2020-Present)
    - Power and Energy Education Committee (PEEC) (Past-Chair: 2022-2023, Chair: 2020-2021, Vice-Chair: 2018-2019, Secretary: 2016-2017)
      - Student Meetings Subcommittee (Secretary: 2009, Vice-Chair: 2011, Chair: 2013, Past-Chair: 2015)
      - Power Engineering Career Promotion Subcommittee (Vice Chair: 2009, Chair: 2011, Past-Chair: 2013)
      - Awards Committee (Secretary: 2014 – 2015, Vice-Chair: 2016, Chair: 2017-Present)
    - Power System Dynamic Performance (PSDP)
      - IEEE Voltage Stability Working Group (Secretary: 2015-2016, Vice-Chair: 2017-2018, Chair: 2019-Present)
    - Energy Development & Power Generation Committee (2009-Present)
      - Vice Chair (2025-present)
      - Secretary (2024-2025x)
      - Energy Development Subcommittee (2009-Present)

    - Distributed Generation and Energy Storage Subcommittee (Member: 2009-Present, Webmaster: 2010, Awards Liaison: 2011-Present)
        - Microgrid Implementation Working Group (Co-Chair: 2012-Present)
    - Analytic Methods for Power Systems (AMPS) Committee, CAMS
        - Computational Challenges and Solutions for Implementing Distributed Optimization in the Power Systems (Co-Chair: 2019-Present)
    - Intelligent Grid and Emerging Technologies Coordinating Committee, iGET

- IEEE Industrial Application Society (2012-Present)
- IEEE Industrial Electronics Society (2014-Present)

- ASEE (2005-2012, 2021-present)
- Sigma Xi Honor Society (2004-2011)
- Eta Kappa Nu Honor Society (2004-2011)
- IEEE ICAP Synchrophasor Conformance Subcommittee (Past Vice-Chair, 2013)
- North American Synchrophasor Initiative (NASPI) (2006-Present)
    - Phasor benefits and metrics working group
    - PMU for control Application (Chair: 2018-Present)
- Joint Synchronized Information Subcommittee, Western Electricity Coordinating Council (2012-Present)
- Synchronized Measurement System, NERC, (2019-Present)
- CIGRE: Conseil International des Grands Réseaux Electriques
    - Member, C2.25, Operational Resilience
    - Member, C4C2.58, Voltage Stability Assessment in Transmission System
    - Member, C4.47, Power System Resilience
    - Member, D2.52, Artificial Intelligence Application and Technology in Power Industry
    - Member, C2.18, Wide area monitoring and Control

XII. In Media

2024

- WVU computer science and cybersecurity undergraduate programs reach significant growth this fall semester
- How utilities are working to meet AI data centers' voracious appetite for electricity
- MATCH UP: WVU is training the next generation of cyber warriors
- From communication devices to 'deadly tools,' WVU researcher elaborates on explosive potential of pagers and walkie-talkies
- WVU researchers to utilize $1.75M in federal funding for innovative cybersecurity AI program
- Study Including WVU and Marshall Analyzes Cyber Threats to Artificial Intelligence Systems
- WVU addressing AI in cybersecurity
- WVU Statler College alumni contribute $750K in pursuit of 'relentless innovation'
- WVU researchers give electric vehicle batteries a second life

- WVU Statler College boosts biometrics education with support from IDEMIA National Security Solutions
- WVU experts see cell outage as 'stark reminder' of critical infrastructure vulnerabilities
- Top ranked online graduate program in Software Engineering the Statler College integrating new technologies for student success
- Prof. Srivastava received a DOE grant to develop machine learning to fortify power grids
- West Virginia getting ahead of the curve with Artificial Intelligence
- WVU Day at Capitol showcase new BS Robotics program in Charleston

2023

- Prof. Srivastava interviewed for All sides with Ann Fisher, WOSU NPR, BBC World Service on Attacks on Critical infrastructure
- WVU creating live fire exercise facility for cybersecurity
- Prof. Srivastava part of the Cybersecurity Grant to Help Develop Hands-On Activities
- Prof. Srivastava part of the DOE funding for Grid Resilience
- Department of Education Supports new Cyber Range co-led by Dr. Srivastava
- New Cybersecurity Educational Activities planned at WVU
- Prof. Srivastava to lead a new project for Battery Integration into the Grid
- WVU Statler College to host energy systems lab and learning space dedication
- Prof. Srivastava elected as fellow of the Asia-Pacific Artificial Intelligence Association
- From AI to electric snowplows, WVU researcher explores ways to modernize
- Prof. Srivastava to give distinguished lecture at the Mississippi State University
- Prof. Srivastava co-authors a book on Cyber Infrastructure for the Smart Electric Grid
- SG-REAL students win at the second annual Statler Graduate Student Research Symposium
- Prof. Srivastava interviewed on grid resiliency with John Dickerson, CBS News Prime Time
- Prof. Srivastava interviewed for NC Substation Attack with ABC News
- Prof. Srivastava Interviewed with WFAE, Charlotte NPR news
- SG-REAL launched open-source cyber-power systems data
- Prof. Srivastava co-authored paper, winning the 2022 Institution of Engineering Technology Best Paper Premium Award
- Prof. Srivastava co-organized the 11th Workshop on Modeling and Simulation of Cyber-Physical Energy Systems
- WVU solar-power test site in Fairmont given greenlight
- Clouds part for solar energy's prospects in West Virginia as WVU and partners build a solar-power test site in Fairmont

2022

- Prof. Srivastava to give keynote at the NPSC
- Prof. Srivastava to give keynote at the CARS 2022
- How to prevent power grid failures
- Prof. Srivastava interviewed with NSF Discovery Files
- SG-REAL students contribute to team efforts to the DOE CyberForce Competition
- WVU engineer aims to increase the resiliency of the power grid against cyberattacks

- Key stakeholders across the state during first industry day
- WVU Engineer Aims to Increase the Use and Reliability of Carbon Free Electricity Systems
- WVU professor develops advanced solutions for human-machine coordination
- West Virginia University researchers looking to transform power grid crisis response
- Dr. Srivastava to offer tutorial on distributed optimization at the PESGM, 2022
- Dr. Srivastava to co-chair supersession on Artificial Intelligence in Power Systems, PESGM 2022, Denver, 2022
- Dr. Srivastava to be speaker in supersession on Extreme Events and Their Impact on Power Systems at the PESGM, 2022
- WVU to join US Cyber Command Academic Engagement Network
- WVU redesignated as cybersecurity center of excellence
- Srivastava to co-chair 10th Workshop on Modeling and Simulation of Cyber-Physical Energy Systems, May 2022
- Srivastava to give webinar at MIT LIDS/ EESG, April 2022
- Partha Sarker, Graduate student in SG-REAL won the first-place award in LCSEE graduate student poster presentations
- Srivastava to give IEEE PES talk on distributed optimization for power grid, January 2022
- Srivastava to give a keynote talk, Workshop on Smart cities, January 2022

2021

- Srivastava to give a keynote at *IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2021)*
- *Anurag Srivastava to give keynote at the International Conference on Power Systems (ICPS), December, 2021*
- Srivastava Co-Chaired Workshop on Power Grid Resilience
- Srivastava Named IEEE Fellow for Power Grid Resilience Technology
- Srivastava named Chair of the Lane Department of Computer Science and Electrical Engineering
- Dr. Srivastava to Give IEEE PES Day Webinar in Columbus, Ohio
- Dr. Srivastava to give webinar for IEEE Task Force on Cyber-Physical Interdependence for Power System Operation and Control
- WSU researchers receive the 2021 Commercialization Gap Fund
- Dr. Srivastava promoted to Full professor
- Dr. Srivastava to give a keynote at the IEEE International conference on Sustainable Energy

2020

- Grid resilience in the face of a pandemic
- Dr. Srivastava to serve in user selection panel, ERIGrid2.0
- AI startup for electric grid resilience
- Dr. Srivastava to have a joint Appointment as a research scientist with the PNNL AGI Institute
- Dr. Srivastava to deliver IEEE Distinguish lecture at the National University of Singapore

2019

- Dr. Srivastava to give IEEE Distinguish Lecture at Miami, FL
- Dr. Srivastava to give keynote at CEEPE/ ICSGSC, Berkley, CA
- Energy resilience research from Dr. Srivastava featured by EnergyCentral
- Dr. Srivastava to give IEEE Big data tutorial
- Dr. Srivastava interviewed by Associated Press for Venezuela's Blackout
- Dr. Srivastava interviewed by The Seattle Times for Venezuela's Blackout
- Dr. Srivastava interviewed by SF Gate for Venezuela's Blackout
- Prof. Srivastava to give IEEE Distinguish Lecture at University of Hawaii

2018

- IEEE Smart grid interviews Prof. Srivastava
- Prof. Srivastava organized data analytics for the power grid workshop supported by NSF
- WSU professor works to improve smart power grids
- Faster, Smarter Decisions in Power Grid Extreme Events Aim of Research

2017

- WSU part of the grid distributed simulation team in two continents
- Dr. Srivastava to co-lead $30M international partnership to advance power grid
- Dr. Srivastava will co-lead a new $2.3M grant to improve U.S. power grid design
- Dr. Srivastava part of the International Energy Project
- Dr. Srivastava is part of the team to develop distributed and resilient control for the power grid
- WSU to lead international research to advance the DER integration
- WSU part of the Global RT-SuperLab for electric grid simulation
- Jacob Greig-Prine working with Dr. Srivastava wins award at the international conference

2016

- Dr. Srivastava was invited for IEEE PES webinar on synchrophasor applications
- Out the Hack door

2015

- Dr. Srivastava to participate in a new DOE ARPA-E project
- WSU to participate in National Cybersecurity Project
- SGDRIL featured in Washington State Magazine
- Dr. Srivastava is part of the $28.1M DOE grant to help with Cyber Security in Energy Delivery System

2014

- Creating a smart city by focusing on grid efficiencies
- WSU hosts major power industry event
- Sept. 7-9: Power symposium highlights stability, security
- Students take top prizes at world power, energy conference

2013

- Driven by energy, fueled by philanthropy

- WSU students earn the most IEEE power scholarships
- The Next Phase for Distributed Energy
- Graduate student receives top poster award

2012

- K-12 Outreach and Educational Initiatives Within the Power Industry
- WSU Student Receives Second Place in Annual Power Engineering Conference
- Anurag Srivastava Selected to Participate in Leading Engineering Education Symposium
- Conference the first to look at synchrophasor testing for smart grid
- IEEE Conformity Assessment Program (ICAP) and Washington State University Laboratory Host First Synchrophasor Conference Focusing on Testing for the Smart Grid
- First-Ever Conference Looks at Synchrophasor Testing for Smart Grid

2011

- IEEE Conformity Assessment Program (ICAP) and Washington State University Laboratory Sign Memorandum of Understanding to Develop Conformance Framework for Syncrophasors
- WSU to become a smart grid testing lab
- Smart Grid Lab Gets Underway