

VITAE

Date: January 20, 2023

Name: Wei-Jen Lee

Citizenship: USA

Rank: Professor of Electrical Engineering Department
Director of Energy Systems Research Center

Mailing Address: Energy Systems Research Center
UTA Box 19048
416 Yates Street, Room 518
Arlington, TX 76019
Tel: (817) 272-5046, FAX: (817) 272-2253
Email: wlee@uta.edu

Department/School: Electrical Engineering/The University of Texas at Arlington

Area of Specialization: Utility Deregulation, Renewable Energy, Arc Flash Hazards and Electrical Safety, Smart Grid, MicroGrid, Industrial Internet of Things (IIoT) and Virtual Power Plants (VPP), AI for Load, Price, and Wind Capacity Forecasting, Power Quality, Distribution Automation, Demand Response, Power Systems Analysis, Short Circuit Analysis and Relay Coordination, Distributed Energy Resources, Energy Storage System, PEV Charging Infrastructure Design, AMI and Big Data, On Line Real Time Equipment Diagnostic and Prognostic System, and Microcomputer Based Instrument for Power Systems Monitoring, Measurement, Control, and Protection

1. Education

University	Degree	Major	Date
University of Texas at Arlington	Ph.D.	Electrical Engineering	December 1985
National Taiwan University	M.S.	Electrical Engineering	June 1980
National Taiwan University	B.S.	Electrical Engineering	June 1978

2. Employment (Academic Positions Held and Other Professional Experience: List in Chronological Order)

Employer	Title	Dates
The University of Texas at Arlington	Director Energy Systems Research Center	09/01/03 - Present
The University of Texas at Arlington	Professor	09/01/98 - Present
The University of Texas at Arlington	Associate Professor	09/01/92 - 08/31/98
The University of Texas at Arlington	Assistant Professor	09/01/86 - 08/31/92

The University of Texas Visiting Assistant Professor 01/15/86 - 08/31/86
at Arlington

3. Memberships in Learned or Professional Organizations

1. Institute of Electrical and Electronics Engineering (IEEE)
 - * Fellow Jan. 2007 – Present
 - * Senior Member Mar. 1997 – Dec. 2006
 - * Member 1986 - Mar. 1997
2. Registered Professional Engineer in the State of Texas Feb. 5, 1993 – Present
3. Chair, IEEE Smart Grid Program Jan. 2023 – Present
4. Member, National Academy of Inventors May 2022 – Present
5. Co-Chair, IEEE Joint OU Ad Hoc on Sustainable Development (SDAH) Jan. 2022 – Present
6. Chair, IEEE Technical Activity Board (TAB) Climate Change Program Jan. 2022 – Present
7. Member, IEEE Ad Hoc Committee to Coordinate IEEE Response to Climate Change (CCIRCC) Jan. 2022 – Present
8. Member, IEEE TAB Hall of Honor Selection Committee Jan. 2022 – Present
9. Member, United Nations Council of Engineers for the Energy Transition (CEET) May 2022 – Present
10. Member, Pillar 4 of Global Power Systems Transformation Jan. 2021 – Present
11. Chair, IEEE Smart Cities Education Committee Jan. 2017 – Present
12. Project Manager, IEEE/NFPA Arc Flash Phenomena Collaborative Research Project Sept. 2008 – Present
13. Board Member, Transmission & Substation Design & Operation Symposium (TSDOS) Jan. 2003 – Present
14. President, IEEE, Industry Application Society Jan. 2021 – Dec. 2022
15. Member, IEEE Smart Grid Education Committee Jan. 2017 – Dec. 2022
16. Prominent Lecturer, IEEE-IAS Jan. 2019 – Dec. 2021
17. Member, IEEE Smart Cities Steering Committee Jan. 2017 – Dec. 2020
18. Associate Editor, IEEE Transactions on Industry Applications Dec. 2007 – Dec. 2020
19. President Elect, IEEE, Industry Application Society Jan. 2019 – Dec. 2020
20. Vice President, IEEE, Industry Application Society Jan. 2017 – Dec. 2018
21. Vice Chair, IEEE PowerAfrica Steering Committee Feb. 2019 – Dec. 2020
22. Member, IEEE Fellow Evaluation Committee Jan. 2017 – Dec. 2020
23. External Examiner, Multimedia University, Malaysia Sept. 2014 – Dec. 2019

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| 24. Member, IEEE Smart Grid Operation Committee | Jan. 2014 – Present |
| 25. Member, IEEE Smart Grid R&D Committee | Jan. 2014 – Dec. 2019 |
| 26. Chair, Long Range Planning Committee, IEEE-IAS | Jan. 2017 – Dec. 2018 |
| 27. Member, Fellow Strategic and Planning Subcommittee,
IEEE Fellow Committee | Jan. 2018 – Dec. 2018 |
| 28. Chair, IEEE Smart Grid, Working Group for White Paper on
Battery Storage System | Mar. 2016 – May 2018 |
| 29. Distinguished Lecturer, IEEE-IAS | 2017 - 2018 |
| 30. Member, IEEE-IAS Fellow Evaluation Committee | 2014 – 2016 |
| 31. Member, IEEE-PES Fellow Evaluation Committee | 2016 |
| 32. Associate Editor, International Journal of Power and
Energy Systems | Dec. 2001 – Dec. 2013 |
| 33. Chair, IEEE-IAS, I&CPS Department | Jan. 2015 – Dec. 2016 |
| 34. Vice Chair-Technical, IEEE-IAS, I&CPS Department | Jan. 2013 – Dec. 2014 |
| 35. Vice Chair-Paper, IEEE-IAS, I&CPS Department | Jan. 2011 – Dec. 2012 |
| 36. Secretary, IEEE-IAS, I&CPS Department | Jan. 2007 – Dec. 2010 |
| 37. Chair, IEEE-IAS, I&CPS Department, Energy Systems
Committee | Jan. 2005 – May 2009 |
| 38. Chair, Power System Analysis Sub-Committee
IEEE-IAS, I&CPS Department, Power Systems
Engineering Committee | May 2002 – May 2003 |
| 39. Vice Chair, Utility Deregulation Subcommittee
IEEE-IAS, I&CPS Department, Energy System Committee | May 2000 – May 2007 |
| 40. Vice Chair, Emergency and Standby Power System
Subcommittee, IEEE-IAS, I&CPS Department,
Power System Engineering Committee | May 2000 – May 2002 |
| 41. Chair, IEEE-IAS, I&CPS Department,
Power System Engineering Committee | Jan. 1997 – Dec. 1998 |
| 42. Vice Chair, IEEE-IAS, I&CPS Department,
Power System Engineering Committee | Jan. 1995 - Dec. 1996 |
| 43. Secretary, Power System Analysis Sub-Committee
IEEE-IAS, I&CPS Department, Power Systems
Engineering Committee | May 1992 - May 1995 |

4. Honors and Awards

1. PCIC Electrical Safety Excellence Award

Organization: IEEE-IAS, Petroleum and Chemicals Industry Committee (PCIC)

Date: September 2022

2. Committee Prize Paper Award: Typical Fault Cause Recognition of Single-Phase-to-Ground Fault for Overhead Lines in Non-Solidly Earthed Distribution Networks
Organization: Power Systems Protection Committee, IEEE-IAS, Industrial and Commercial Power Systems Department
Date: May 2022
3. First Place of the IAS Magazine Prize Paper Award: Introduction to IEEE Standard 1584 – Guide for Performing Arc-Flash Hazard Calculations – 2018 Edition
Organization: IEEE-IAS
Date: October 2021
4. Third Place of the IAS Transactions Prize Paper Award: Wind Farm Dynamic Equivalent Modeling Method for Power System Probabilistic Stability Assessment
Organization: IEEE Industry Applications Society
Date: October 2021
5. Best Paper Award: A Data-driven Method for Fast AC Optimal Power Flow Solutions via Deep Reinforcement Learning
Organization: Journal of Modern Power Systems and Clean Energy
Date: August 2021
6. Committee Prize Paper Award: Introduction to IEEE Standard 1584 – Guide for Performing Arc-Flash Hazard Calculations – 2018 Edition
Organization: IEEE-IAS, Petroleum and Chemicals Industry Committee (PCIC)
Date: September 2020
7. Department Prize Paper Award: Arc Voltage Characteristics of Medium-Low Voltage Arc Fault in Short Gaps
Organization: IEEE-IAS, Industrial and Commercial Power Systems Ralph H. Lee Department Paper Award
Date: October 2019
8. Committee Prize Paper Award: A Contactless Insulator Contamination Levels Detecting Method Based on Infrared Images features and RBFNN
Organization: Power Systems Protection Committee, IEEE-IAS, Industrial and Commercial Power Systems Department
Date: October 2019
9. Best Focus Session Paper Award: Using Spectrum of the Light for High Speed Arcing Fault Protection
Organization: IEEE-IAS, Electrical Safety Workshop
Date: March 2019
10. Department Achievement Award
Organization: IEEE-IAS, Industrial and Commercial Power Systems Department
Date: May 2018
11. Outstanding Service Award
Organization: IEEE-IAS, Industrial and Commercial Power Systems Department
Date: May 2017

12. Committee Prize Paper Award: 3D Magnetohydrodynamic Modeling of DC Arc in Power System
Organization: Power Systems Engineering Committee, IEEE-IAS, Industrial and Commercial Power Systems Department
Date: May 2017
13. Committee Prize Paper Award: Interactive Model for Energy Management of Clustered Microgrids
Organization: Energy Systems Committee, IEEE-IAS, Industrial and Commercial Power Systems Department
Date: May 2017
14. Department Prize Paper Award: Novel Hybrid Market Price Forecasting Method with Data Clustering Techniques for EV Charging Station Application
Organization: IEEE-IAS, Industrial and Commercial Power Systems Ralph H. Lee Department Paper Award.
Date: May 2015
15. Committee Prize Paper Award: Electrical Safety, Electrical Hazards & the 2015 NFPA 70E, Time to Update Annex K?
Organization: Codes and Standards Committee, IEEE-IAS, Industrial and Commercial Power Systems Department
Date: May 2015
16. Committee Prize Paper Award: A New Measurement Method for Power Signatures of Non-intrusive Demand Monitoring and Load Identification
Organization: Power Systems Engineering Committee, IEEE-IAS, Industrial and Commercial Power Systems Department
Date: May 2012
17. Academy of Distinguished Scholar: University of Texas at Arlington
Organization: The University of Texas at Arlington.
Date: April 2012
18. Outstanding Service Award
Organization: IEEE-IAS, Industrial and Commercial Power Systems Department
Date: May 2009
19. Committee Prize Paper Award: Design Optimization of Wind Power Planning for a Country with Low-Medium Wind Speed Profile
Organization: Energy Systems Committee, IEEE-IAS, Industrial and Commercial Power Systems Department
Date: May 2008
20. Committee Prize Paper Award: Multi-Stage Artificial Neural Network Short-term Load Forecasting Engine with Front-End Weather Forecast
Organization: Energy Systems Committee, IEEE-IAS, Industrial and Commercial Power Systems Department
Date: May 2007

21. Research Achievement Award: University of Texas at Arlington
Organization: The University of Texas at Arlington.
Date: April 2007
22. Department Prize Paper Award: Integrated High Speed Intelligent Utility Tie Unit for Disbursed/Renewable Generation Facilities
Organization: IEEE-IAS, Industrial and Commercial Power Systems Ralph H. Lee Department Paper Award.
Date: May 2005
23. College of Engineering Research Excellence Award
Organization: College of Engineering, The University of Texas at Arlington.
Date: February 2004
24. Committee Prize Paper Award: The Design of a Capacitor Bank Early Warning System
Organization: Power Systems Protection Committee, IEEE-IAS, Industrial and Commercial Power Systems Department.
Date: May 2003
25. External Examiner
Organization: Ngee Ann Polytechnic, Singapore
Date: May 1999 – May 2003
26. Third Prize Paper Award: Neural Network Based Demand Forecasting in a Deregulated Environment
Organization: IEEE, Industry Application Society
Date: October 2001
27. Committee Prize Paper Award: Wheeling Charge Under a Deregulated Environment
Organization: Energy Systems Committee, IEEE-IAS, Industrial and Commercial Power Systems Department.
Date: May 2001
28. Committee Prize Paper Award: Neural Network Based Demand Forecasting in a Deregulated Environment
Organization: Energy Systems Committee, IEEE-IAS, Industrial and Commercial Power Systems Department.
Date: May 2000
29. Outstanding Service Award
Organization: Dallas Section, Industrial Application Society of Institute of Electrical and Electronics Engineers, Inc.
Date: May 1998
30. Outstanding Contribution to the Energy Training Program: Power System Protection and Control
Organization: United States Agency for International Development (USAID) and The Institute of International Education (IIE)
Date: August 1994

31. Outstanding Contribution to the Energy Training Program: Power System Protection and Control

Organization: United States Agency for International Development (USAID) and The Institute of International Education (IIE)

Date: August 1991

32. Outstanding Contribution to the Energy Training Program: Power System Operations

Organization: United States Agency for International Development (USAID) and The Institute of International Education (IIE)

Date: August 1990

5. Research and Publications:

5A. Books and Book chapters:

Book Title: IEEE Std. 1584-2018, IEEE Guide for Performing Arc-Flash Hazard Calculations

Publisher: Institute of Electrical and Electronics Engineers, Inc. (IEEE)

Chapter: Working Group Member/Provide Models for Arcing Current, Incident Energy, and Protection Boundary Estimation

Book Title: IEEE Std. 3002.8-2018, IEEE Recommended Practice for Conducting Harmonic Studies and Analysis of Industrial and Commercial Power Systems

Publisher: Institute of Electrical and Electronics Engineers, Inc. (IEEE)

Chapter: Working Group Member

Book Title: IEEE Std. 551-2006 (Violet Book), IEEE Recommended Practice for Calculating Short-Circuit Currents in Industrial and Commercial Power System Analysis.

Publisher: Institute of Electrical and Electronics Engineers, Inc. (IEEE)

Chapter: Contributor of the Book

Book Title: IEEE Std. 399-1998 (Brown Book), IEEE Recommended Practice for Industrial and Commercial Power System Analysis.

Publisher: Institute of Electrical and Electronics Engineers, Inc. (IEEE)

Chapter: Chapter 8: Stability Analysis

Authors: Chapter Chairman: **Wei-Jen Lee**, Co-Chairman: Dr. Mark Halpin

Book Title: IEEE-Std. 739-1995 (Bronze Book), IEEE Recommended Practice for Energy Management in Commercial and Industrial Facilities. (New Revision)

Publisher: Institute of Electrical and Electronics Engineers, Inc. (IEEE)

Chapter: Chapter 5: Energy Management for Motors, Systems, and Electrical Equipment

Authors: Chapter Chairman: R. C. Lennig; Working Members: **Wei-Jen Lee**, R. G. Irvine

Book Title: IEEE-Std. 141-1993 (Red Book), IEEE Recommended Practice for Electric Power Distribution for Industrial Plants. (New Revision)

Publisher: Institute of Electrical and Electronics Engineers, Inc. (IEEE)

Chapter: Chapter 6: Surge Voltage Protection

Authors: Chapter Chairman: **Wei-Jen Lee**; Working Members: D. Baker, C. Becker, G. Gaibrois, M. S. Griffith, W. J. Moylan, and G. Walsh

Book Title: Analysis and Control System Techniques for Electric Power Systems

Publisher: Academic Press, Inc., 1991.

Chapter: Dynamic Stability Analysis and Control of Power Systems

Authors: Y. H. Moon, **Wei-Jen Lee**, M. S. Chen

5B. Published articles:

Referred Archival Serial Journal Articles

1. Yuan Huang, Zhaohao Ding, and **Wei-Jen Lee**, “Charging Cost Aware Fleet Management for Shared on-Demand Green Logistic System”, IEEE Internet of Things Journal (Early Access).
2. Peng Wang, Zhenyuan Zhang, Tengfei Ma, Qi Huang, and Wei-Jen Lee, “Parameter Calibration of Wind Farm with Error Tracing Technique and Correlated Parameter Identification”, IEEE Transactions on Power Systems (Early Access)
3. Yimeng Sun, Zhaohao Ding, Zechun Hu, and **Wei-Jen Lee**, “Risk-aware Operation Modeling for Ride-Hailing Fleet in Order Grabbing Mode: A Distributional Reinforcement Learning Approach”, IEEE Transactions on Smart Grid (Early Access)
4. Zhenyuan Zhang, Yuxiang Huang, Zihan Chen, Qi Huang, and **Wei-Jen Lee**, “Integrated Demand Response for Microgrids with Incentive Compatible Bidding Mechanism”, IEEE Transactions on Industry Applications. Volume: 59, Issue: 1, January/February 2023. Pp 118 – 127.
5. Yanchang Liang, Zhaohao Ding, Tianyang Zhao, and **Wei-Jen Lee**, “Real-Time Operation Management for Battery Swapping-Charging System via Multi-Agent Deep Reinforcement Learning”, IEEE Transactions on Smart Grid. Volume: 14, Issue: 1, January 2023. Pp 559 – 571.
6. Diansheng Luo, Jie Fang, Hongying He, **Wei-Jen Lee**, Zhenyuan Zhang, Hongtao Zai, Wengang Chen, and Ke Zhang, “Prediction for Dissolved Gas in Power Transformer Oil Based on TCN and GCN”, IEEE Transactions on Industry Applications. Volume: 58, Issue: 6, November/December 2022. Pp 7818 – 7826.
7. Zhaohao Ding, Wenrui Tan, Wenbing Lu and **Wei-Jen Lee**, "Quality-of-Service Aware Battery Swapping Navigation and Pricing for Autonomous Mobility on Demand System", IEEE Transactions on Industrial Informatics. Volume: 18, Issue: 11, November 2022. Pp8247 – 8257.
8. Wenrui Tan, Yimeng Sun, Zhaohao Ding, and **Wei-Jen Lee**, “Fleet Management and Charging Scheduling for Shared Mobility-on-demand System: A Systematic Review”, IEEE Open Access Journal of Power and Energy. Volume: 9, October 2022. Pp 425 – 436.
9. Yuhao Zhou, **Wei-Jen Lee**, Ruisheng Diao, and Di Shi, “Deep Reinforcement Learning Based Real-time AC Optimal Power Flow Considering Uncertainties”, Journal of Modern Power Systems and Clean Energy (MPCE). Volume: 10, Issue: 5, September 2022. Pp 1098 – 1109.
10. Zhenyuan Zhang, Pengfei Zhao, Peng Wang, and **Wei-Jen Lee**, “Transfer Learning Featured Short-Term Combining Forecasting Model for Residential Loads with Small Sample Sets”, IEEE Transactions on Industry Applications. Volume: 58, Issue: 4, July/August 2022. Pp 4279 – 4288.
11. Peng Wang, Zhenyuan Zhang, Qi Huang, Xiaotian Tang, and **Wei-Jen Lee**, “Approach for Parameter Calibration to Microgrid Model with Problematic Parameter

- Identification”, IEEE Transactions on Industry Applications. Volume: 58, Issue: 4, July/August 2022. Pp 4289 – 4297.
12. Zhenyuan Zhang, Zihan Chen, and **Wei-Jen Lee**, “Soft Actor–Critic Algorithm Featured Residential Demand Response Strategic Bidding for Load Aggregators”, IEEE Transactions on Industry Applications. Volume: 58, Issue: 4, July/August 2022. Pp 4298 – 4308.
 13. Zhenyuan Zhang, Jie Ren, Xiaotian Tang, Shi Jing, and **Wei-Jen Lee**, “Novel Approach for Arc Fault Identification with Transient and Steady State based Time-Frequency Analysis”, IEEE Transactions on Industry Applications. Volume: 58, Issue: 4, July/August 2022. Pp 4359 – 4369.
 14. Farshid Salehi, Amir Golshani, Igor Brandao Machado Matsuo, Payman Dehghanian, Mehriar Aghazadeh Tabrizi, and **Wei-Jen Lee**, “On Mitigation of Sub-Synchronous Control Interactions in Hybrid Generation Resources”, IEEE Transactions on Industrial Informatics. Volume: 18, Issue: 7, July 2022. Pp 4372 – 4382.
 15. Xiaolin Ge, Jia Qian, Yang Fu, **Wei-Jen Lee**, Yang Mi, “Transient Stability Evaluation Criterion of Multi-Wind Farms Integrated Power System”, IEEE Transactions on Power Systems. Volume: 37, Issue: 4, July 2022. Pp 3137 – 3140.
 16. Zhaohao Ding, Kaiyuan Yu, Cheng Wang, and **Wei-Jen Lee**, “Transmission Line Overload Risk Assessment Considering Dynamic Line Rating Mechanism in High Wind Penetrated Power System: A Data-Driven Approach”, IEEE Transactions on Sustainable Energy. Volume: 13, Issue: 2, April 2022. Pp 1112 – 1122.
 17. Kaiqi Sun, Ke-Jun Li, Zhengfa Zhang, Yongliang Liang, Zhijie Liu, and **Wei-Jen Lee**, “An Integration Scheme of Renewable Energies, Hydrogen Plant, and Logistics Center in the Suburban Power Grid”, IEEE Transactions on Industry Applications. Volume: 58, Issue: 2, March/April 2022. Pp 2771 – 2779.
 18. Hsueh-Hsien Chang, Tse-Chih Lai, Heng-Jui Chang, and **Wei-Jen Lee**, “Fault Location Identifications in HV Transmission Networks and different MV Wind Farms using Non-intrusive Monitoring Techniques”, IEEE Transactions on Industry Applications. Volume: 58, Issue: 2, March/April 2022. Pp 1822 – 1830.
 19. Liangzi Zi, Ke-Jun Li, Kaiqi Sun, Zhijie Liu, and **Wei-Jen Lee**, “A Comparative Study on Voltage Level Standard for DC Residential Power Systems”, IEEE Transactions on Industry Applications. Volume: 58, Issue: 2, March/April 2022. Pp 1446 – 1455.
 20. Ying Lu, Yanchang Liang, Zhaohao Ding, Qiuwei Wu, Tao Ding, and **Wei-Jen Lee**, “Deep Reinforcement Learning-based Charging Pricing for Autonomous Mobility-on-Demand System”, IEEE Transactions on Smart Grid. Volume: 13, Issue: 2, March 2022. Pp 1412 – 1426.
 21. Menglin Li, Ming Yang, Yixiao Yu, and **Wei-Jen Lee**, “A Wind Speed Correction Method Based on Modified Hidden Markov Model for Enhancing Wind Power Forecast”, IEEE Transactions on Industry Applications. Volume: 58, Issue: 1, January/February 2022. Pp 656 – 666.

22. Anusha Papasani, Kaynat Zia, and **Wei-Jen Lee**, “Automatic Power System Restoration with Inrush Current Estimation for Industrial Facility”, IEEE Transactions on Industry Applications. Volume: 57, Issue: 6, November/December 2021. Pp 5772 – 5781.
23. Ali Mohammed Jobayer, Md Rahan Chowdhury, Long Zhao, Anusha Papasani, Yuhao Zhou, and **Wei-Jen Lee**, “Impact of Societal Events on Frequency Stability Considering LED TVs in Low Inertia Trending Power Systems”, IEEE Transactions on Industry Applications. Volume: 57, Issue: 6, November/December 2021. Pp 5649 – 5657.
24. Zhaohao Ding, Wenrui Tan, **Wei-Jen Lee**, Xuyang Pan, and Shiqiao Gao, “Integrated Operation Model for Autonomous Mobility on Demand Fleet and Battery Swapping Station”, IEEE Transactions on Industry Applications. Volume: 57, Issue: 6, November/December 2021. Pp 5593 – 5602.
25. Can Wan, Zhaojing Cao, **Wei-Jen Lee**, Yonghua Song, and Ping Ju, “An Adaptive Ensemble Data Driven Approach for Nonparametric Probabilistic Forecasting of Electricity Load”, IEEE Transactions on Smart Grid. Volume: 12, Issue: 6, November 2021. Pp 5396 – 5408.
26. Peng Wang, Zhenyuan Zhang, Qi Huang, Weijun Zhang, and **Wei-Jen Lee**, “PMU Based Problematic Parameter Identification Approach for Calibrating Generating Unit Models”, IEEE Transactions on Industry Applications. Volume: 57, Issue: 5, September/October 2021. Pp 4520 – 4527.
27. Bonan An, Yong Li, Josep M. Guerrero, **Wei-Jen Lee**, Longfu Luo, and Zhixue Zhang, “Renewable Energy Integration in Intelligent Railway of China: Configurations, Applications and Issues”, IEEE Intelligent Transportation Systems Magazine. Volume: 13, Issue: 3, Fall 2021. Pp 13 – 33.
28. Lingyue Zhang, Hui Li, **Wei-Jen Lee**, and Hua Liao, “COVID-19 and Energy: Influence Mechanisms and Research Methodologies”, Sustainable Production and Consumption (Elsevier). Volume 27, July 2021, Pp 2134 – 2152.
29. Zhenyuan Zhang, Yuxiang Huang, Qi Huang, and **Wei-Jen Lee**, “A Novel Hierarchical Demand Response Strategy for Residential Microgrid”, IEEE Transactions on Industry Applications. Volume: 57, Issue: 4, July/August 2021. Pp 3262 – 3271.
30. Zhenyuan Zhang, Haoyue Tang, Qi Huang, and **Wei-Jen Lee**, “Strategic Prosumers-Based Peer-to-Peer Energy Market Design for Community Microgrids”, IEEE Transactions on Industry Applications. Volume: 57, Issue: 3, May/June 2021. Pp 2048 – 2057.
31. Zhenyuan Zhang, Xiaotian Tang, and **Wei-Jen Lee**, “Preemptive Medium-Low Voltage Arc Flash Detection with Geometric Distribution Analysis on Magnetic Field”, IEEE Transactions on Industry Applications. Volume: 57, Issue: 3, May/June 2021. Pp 2129 – 2137.

32. Peng Wang, Zhenyuan Zhang, Qi Huang, Xiaotian Tang, and **Wei-Jen Lee** “Robustness-Improved Method for Measurement-Based Equivalent Modeling of Active Distribution Network”, IEEE Transactions on Industry Applications. Volume: 57, Issue: 3, May/June 2021. Pp 2146 – 2155.
33. Yong-Liang Liang, Ke-Jun Li, Zhao Ma, and **Wei-Jen Lee**, “Multilabel Classification Model for Type Recognition of Single-Phase-to-Ground Fault Based on KNN-Bayesian Method”, IEEE Transactions on Industry Applications. Volume: 57, Issue: 2, March/April 2021. Pp 1294 – 1302.
34. Hsueh-Hsien Chang, Chuan-Choong Yang, and **Wei-Jen Lee**, “Fault Location Identification in Power Transmission Networks: Using Novel Nonintrusive Fault-Monitoring Systems”, IEEE Industry Applications Magazine. Volume: 27, Issue: 2, March/April 2021. Pp 76 – 89.
35. Yanchang Liang, Zhaohao Ding, Tao Ding, and **Wei-Jen Lee**, “Mobility-Aware Charging Scheduling for Shared On-Demand Electric Vehicle Fleet Using Deep Reinforcement Learning”, IEEE Transactions on Smart Grid, Volume: 12, Issue: 2, March 2021. Pp 1380 – 1393.
36. Yuhao Zhou, Bei Zhang, Chunlei Xu, Tu Lan, Ruisheng Diao, Di Shi, Zhiwei Wang, and **Wei-Jen Lee**, “A Data-driven Method for Fast AC Optimal Power Flow Solutions via Deep Reinforcement Learning”, Journal of Modern Power Systems and Clean Energy (MPCE), Vol. 8, No. 6, November/December 2020.
37. Kaynat Zia, Anusha Papasani, David Rosewater, and **Wei-Jen Lee**, “Determine the Electrode Configuration and Sensitivity of the Enclosure Dimensions when Performing Arc Flash Analysis”, IEEE Transactions on Industry Applications. Volume: 56, Issue: 6, November/December 2020. Pp 6307 – 6313.
38. Yong-Liang Liang, Ke-Jun Li, Zhao Ma, and **Wei-Jen Lee**, “Typical Fault Cause Recognition of Single-Phase-to-Ground Fault for Overhead Lines in Non-solidly Earthed Distribution Networks”, IEEE Transactions on Industry Applications. Volume: 56, Issue: 6, November/December 2020. Pp 6298 – 6306.
39. Zhaohao Ding, Jinran Guo, Kexing Lai, and **Wei-Jen Lee**, “Spatial-Temporal Demand Management and Benefit Allocation for Geo-Distributed Charging Station and EV Aggregators”, IEEE Transactions on Industry Applications. Volume: 56, Issue: 6, November/December 2020. Pp 6238 – 6249.
40. Bonan An, Yong Li, **Wei-Jen Lee**, and Houliang Zhou, “A Multiattribute and Multidimensional Based Comprehensive Evaluation Method for New Multipulse Integrated Metro Traction Power Supply System”, IEEE Transactions on Industry Applications. Volume: 56, Issue: 6, November/December. 2020. Pp 6138 – 6149.
41. Zhaohao Ding, Ying Lu, Kexing Lai, Ming Yang, and **Wei-Jen Lee** “Optimal Coordinated Operation Scheduling for Electric Vehicle Aggregator and Charging Stations in an Integrated Electricity-Transportation System”, International Journal of Electrical Power and Energy Systems. Volume: 121. October 2020.

42. Xiaosheng Peng, Yuzhu Chen, Kai Cheng, Yunzheng Zhao, Bo Wang, Jianfeng Che, Jinyu Wen, Chen Lu, and **Wei-Jen Lee**, “Wind Power Prediction for Wind Farm Clusters Based on the Multi-feature Similarity Matching Method”, IEEE Transactions on Industry Applications. Volume: 56, Issue: 5, September/October 2020. Pp 4679 – 4688.
43. **Wei-Jen Lee**, Goran Strbac, Zechun Hu, Zhaohao Ding, Piampoom Sarikprueck, Fei Teng, and Georges Kariniotakis, “Special Issue on Advanced Approaches and Applications for Electric Vehicle Charging Demand Management”, IEEE Transactions on Industry Applications. Volume: 56, Issue: 5, September/October 2020. Pp 5682 – 5683.
44. Daleep Mohla, **Wei-Jen Lee**, Jim Phillips, and Albert Marroquin, “Introduction to IEEE Standard 1584: IEEE Guide for Performing Arc-Flash Hazard Calculations – 2018 Edition”, IEEE Industry Applications Magazine. Volume: 26, Issue: 5, September/October 2020. Pp 64 – 76.
45. Peng Wang, Zhenyuan Zhang, **Wei-Jen Lee**, Qi Huang, and Jianbo Yi, “Robustness Improvement on PMU Based Dynamic Equivalent Modeling of Distributed Small Hydropower Generator Stacks”, IEEE Transactions on Power Systems. Volume: 35, Issue: 5, September 2020. Pp 3388 – 3399.
46. Feng Liu, Xinglong Ju, Ning Wang, Li Wang, and **Wei-Jen Lee**, "Wind farm macro-siting optimization with insightful bi-criteria identification and relocation mechanism in genetic algorithm", Energy Conversion and Management. Volume: 217, August 2020. Pp 1 – 10.
47. Hongying He, **Wei-Jen Lee**, Diansheng Luo, and Yijia Cao, “A Contactless Zero-value Insulators Detection Method Based on Infrared Images Matching”, IEEE Access. Volume: 8, July 2020. Pp 133882 – 133889.
48. Igor Matsuo, Farshid Salehi, Long Zhao, Yuhao Zhou, and **Wei-Jen Lee**, “Optimized Frequency Scanning of Nonlinear Devices Applied to Sub-Synchronous Resonance Screening”, IEEE Transactions on Industry Applications. Volume: 56, Issue: 3, May-June 2020. Pp 2281 - 2291.
49. Peng Wang, Zhenyuan Zhang, Qi Huang, and **Wei-Jen Lee**, “Wind Farm Dynamic Equivalent Modeling Method for Power System Probabilistic Stability Assessment”, IEEE Transactions on Industry Applications. Volume: 56, Issue: 3, May-June 2020. Pp 2273 – 2280.
50. Long Zhao, Kun-Long Chen, Shiuan-Hau Rau, and **Wei-Jen Lee**, “Using Spectrum of the Light for High-Speed Arcing Fault Protection”, IEEE IAS Magazine. Volume: 26, No. 3, May/June 2020. Pp 29 – 36.
51. Shi Jing, Qi Huang, Fan Tang, **Wei-Jen Lee**, and Zhenyuan Zhang, "Study on Additional Dynamic Component of Electronic Current Transducer Based on Rogowski Coil and Its Test Approach", IEEE Transactions on Industry Applications. Volume: 56, Issue. 2, March/April 2020. Pp 1258 – 1265.

52. Peng Wang, Zhenyuan Zhang, Qi Huang, and **Wei-Jen Lee**, "Approach to Enhance the Robustness on PMU-Based Power System Dynamic Equivalent Modeling", *IEEE Transactions on Industry Applications*. Volume: 56, Issue. 2, March/April 2020. Pp 1116 – 1123.
53. Zhenyuan Zhang, Haoyue Tang, Peng Wang, Qi Huang, and **Wei-Jen Lee**, "Two-Stage Bidding Strategy for Peer-to-Peer Energy Trading of Nanogrid", *IEEE Transactions on Industry Applications*. Volume: 56, Issue. 2, March/April 2020. Pp 1000 – 1009.
54. Zhenyuan Zhang, Shiuan-Hau Rau, and **Wei-Jen Lee**, "Effect of Electrode Geometry on Arc Flash Protection Boundary", *IEEE Transactions on Industry Applications*. Volume: 56, Issue. 1, January/February 2020. Pp 57 – 64.
55. Farshid Salehi, Igor Brandao Machado Matsuo, Azade Brahman, Mehriar Aghazadeh Tabrizi, and **Wei-Jen Lee**, "Sub-Synchronous Control Interaction Detection: A Real-Time Application", *IEEE Transactions on Power Delivery*. Volume: 35, Issue.1, February 2020. Pp 106 – 116.
56. Long Zhao, Yuhao Zhou, Igor Matsuo, S K. Korkua, and **Wei-Jen Lee**, "The Design of a Remote Online Holistic Monitoring System for a Wind Turbine", *IEEE Transactions on Industry Applications*. Volume: 56, Issue. 1, January/February 2020. Pp 14 – 21.
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308. **Wei-Jen Lee**, J. C. Gu, "A Microcomputer-Based Intelligent Load Shedding Relay," IEEE-PES Winter Power Meeting. New York, NY, Feb. 1989, Pp1-7.
309. W. C. Chu, **Wei-Jen Lee**, M. S. Chen, "Load Model for Load Flow Studies," IEEE-IAS Annual Conference. Atlanta, Georgia, Oct. 1987, Pp1319-1324.
310. M. S. Chen, R. R. Shoultz, **Wei-Jen Lee**, "A New and Unique Operator Training Laboratory for the Co-Generation Industry," American Co-Generation Association First National Conference. Houston, TX, Sept. 1987, Pp1-7.
311. **Wei-Jen Lee**, M. S. Chen, "Load Model for Stability Studies," IEEE-IAS, I&CPS Annual Conference. Cleveland, OH. May 1986, Pp139-145.

5C. Short Courses and Invited Seminars

1. Engineering Applications That Impact Climate Changes
Location: North Carolina, Charlotte
Date: October 29, 2022
Sponsor: IEEE HKN Student Leadership Conference
2. Sub-Synchronous and Super-Synchronous Resonance in the Power Systems
Location: On-Line Presentation
Date: September 8, 2022
Sponsor: Transmission & Substation Design & Operation Symposium (TSDOS)
3. Tackling Climate Change-Connect with the TAB Climate Change Program
Location: On-Line Presentation
Date: August 24, 2022
Sponsor: PowerAfrica Conference
4. IEEE 1584-2018 – What Do We Do Now?
Location: On-Line Presentation
Date: June 15, 2022
Sponsor: Pulp, Paper, and Forest Industry Conference, IEEE Industry Applications Society
5. The Role of Industry Sector on Power System Transformation
Location: On-Line Presentation
Date: February 25, 2022
Sponsor: Sri Lanka Chapter, IEEE Industry Applications Society
6. Impact of Live Broadcasting Societal Events on Frequency Stability in Low Inertia Power Systems
Location: On-Line Presentation
Date: December 4, 2021
Sponsor: 5th International Conference on Power and Energy Engineering (ICPEE 2021)
7. Zero Bouncing Circuit for Battery Model Development
Location: On-Line Presentation
Date: October 26, 2021
Sponsor: 2021 DOE Office of Electricity Energy Storage Program Annual Peer Review
8. Design of Test Equipment for Arc Flash Testing
Location: On-Line Presentation
Date: October 15, 2021
Sponsor: IEEE IAS Annual Conference
9. Arc Flash Hazards and Electrical Safety
Location: On-Line Presentation
Date: October 15, 2021
Sponsor: IEEE IAS Annual Conference

10. The Role of Industry Sector on Net Zero Carbon Emission
Location: On-Line Presentation
Date: September 24, 2021
Sponsor: The 6th International Conference on Power and Renewable Energy
11. Arc Flash Hazards and Electrical Safety: Introduction to the 2018 Edition of IEEE Std. 1584-2018: Guide for Performing Arc-Flash Hazard Calculations
Location: On-Line Presentation
Date: August 26, 2021
Sponsor: IEEE PowerAfrica Conference
12. The Role of Industry Sector on Power System Transformation
Location: On-Line Presentation
Date: August 11, 2021, 2021
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
13. Sustainable Energy Development for Smart Village (Panel Discussion)
Location: On-Line Presentation
Date: July 27, 2021
Sponsor: IEEE PES General Meeting (Sustainable Energy Development for Smart Village)
14. Keep Rotating Outage as Planned Outage (Panel Discussion)
Location: On-Line Presentation
Date: July 26, 2021
Sponsor: IEEE PES General Meeting (Late Breaking News-Texas Energy Crisis)
15. Impact of Extreme Weather in February 2021 on ERCOT
Location: On-Line Presentation
Date: July 18, 2021
Sponsor: IEEE-IAS, Industrial and Commercial Power Systems (I&CPS) Conference-Asia
16. Recent Events in ERCOT
Location: On-Line Presentation
Date: May 29, 2021
Sponsor: International Electrical and Energy Conference
17. The Texas Power Crisis (Panel Discussion)
Location: On-Line Presentation
Date: February 19, 2021
Sponsor: IEEE Smart Grids
18. Power System Transformation: The Role of Industry Sector (Panel Discussion)
Location: On-Line Presentation
Date: February 16, 2021
Sponsor: IEEE Innovative Smart Grid Technologies (ISGT) North American
19. Sub-Synchronous and Super-Synchronous Resonance in the Power Systems
Location: On-Line Presentation

- Date:** November 21, 2020
Sponsor: International Conference on Power and Energy Engineering
20. Arc Flash Hazards and Electrical Safety: Introduction to the 2018 Edition of IEEE Std. 1584-2018: Guide for Performing Arc-Flash Hazard Calculations
Location: On-Line Presentation
Date: October 26, 2020
Sponsor: IEEE Costa Rica
21. Capacity Values of Different Generation Resources
Location: On-Line Presentation
Date: October 20, 2020
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
22. Effectiveness of Zero Pricing on Demand Shifting of Residential Customers
Location: On-Line Presentation
Date: October 15, 2020
Sponsor: International Conference on Power and Renewable Energy (ICPRE)
23. Battery Storage Technologies & Their Potential Applications in Power Systems
Location: On-Line Presentation
Date: September 26, 2020
Sponsor: IEEE-IAS Power and Energy Seminar
24. Arc Flash Hazard and Electrical Safety-New Revision of IEEE Std. 1584-2018
Location: On-Line Presentation
Date: September 21, 2020
Sponsor: IEEE-IAS Power and Energy Seminar
25. Arc Flash Hazards and Electrical Safety: Introduction to the 2018 Edition of IEEE Std. 1584-2018: Guide for Performing Arc-Flash Hazard Calculations
Location: On-Line Presentation
Date: September 9, 2020
Sponsor: Transmission & Substation Design & Operation Symposium (TSDOS)
26. Effectiveness of Zero Pricing on Demand Shifting of Residential Customers
Location: On-Line Presentation
Date: September 7, 2020
Sponsor: IEEE-IAS Power and Energy Seminar
27. Virtual Inertia from DFIG and Inverter-based Renewable Resources
Location: Zhudong Township, Taiwan
Date: February 14, 2020
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
28. Battery Storage Technologies & Their Potential Applications in Power Systems
Location: Taipei, Taiwan
Date: February 11, 2020
Sponsor: System Planning Department, Taiwan Power Company, Taiwan

29. Fundamental of Power Systems
Location: Kaohsiung, Taiwan ROC
Date: December 24, 2019
Sponsor: National Sun Yat Sen University
30. Battery Storage Technologies & Their Potential Applications in Power Systems
Location: Zhudong Township, Taiwan
Date: December 24, 2019
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
31. Ancillary Services for High Renewable Penetration Systems
Location: Zhudong Township, Taiwan
Date: December 23, 2019
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
32. Applications of the Energy Storage Systems in the US
Location: Taipei, Taiwan
Date: November 29, 2019
Sponsor: Taiwan Research Institute
33. Battery Storage Technologies & Their Potential Applications in Power Systems
Location: Taipei, Taiwan
Date: November 29, 2019
Sponsor: Taiwan Research Institute
34. Wind Generation Development and Operation in ERCOT
Location: Taipei, Taiwan
Date: September 4, 2019
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
35. Effectiveness of Zero Pricing in Demand Response at Residential Level
Location: Zhudong Township, Taiwan
Date: September 3, 2019
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
36. Sub-Synchronous and Super-Synchronous Resonance in the Power Systems
Location: Zhudong Township, Taiwan
Date: September 2, 2019
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
37. DER initiatives in US and Europe
Location: Zhudong Township, Taiwan
Date: September 2, 2019
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
38. Effectiveness of Zero Pricing in Demand Response at Residential Level
Location: Atlanta, GA
Date: August 7, 2019
Sponsor: IEEE-PES General Meeting
39. Arc Flash Hazards on External Faults of Battery Storage Systems

- Location:** Atlanta, GA
Date: August 7, 2019
Sponsor: IEEE-PES General Meeting
40. Wind-Hybrid Energy Storage System for Optimal Generation Scheduling
Location: Atlanta, GA
Date: August 7, 2019
Sponsor: IEEE-PES General Meeting
41. Energy Internet for MicroGrid and Virtual Power Plant (VPP) Development
Location: Chengdu, China
Date: May 22, 2019
Sponsor: Innovative Smart Grid Technologies-Asia
42. Keynote: Arc Flash Hazard and Electrical Safety-The New Revision of IEEE Std. 1584-2018
Location: Chengdu, China
Date: May 22, 2019
Sponsor: Innovative Smart Grid Technologies-Asia
43. Battery Storage Technologies & Their Potential Applications in Power Systems
Location: Kuala Lumpur, Malaysia
Date: April 11, 2019
Sponsor: Multi-Media University, Kuala Lumpur, Malaysia
44. Demand Response in ERCOT Market
Location: Wuhan, China
Date: March 11, 2019
Sponsor: Huazhong University of Science and Technology
45. Tutorial: Introduction to the 2018 Edition of IEEE 1584-Guide for Performing Arc-Flash Hazard Calculations
Location: Jacksonville, FL
Date: March 5, 2019
Sponsor: IEEE-IAS, Electrical Safety Workshop
46. Keynote: Arc Flash Hazard and Electrical Safety-The New Revision of IEEE Std. 1584-2018
Location: College Station, TX
Date: February 7, 2019
Sponsor: Texas Power and Energy Conference
47. Battery Storage Technologies & Their Potential Applications in Power Systems
Location: Amman, Jordan
Date: January 27, 2019
Sponsor: IEEE-IAS, Chapter Meeting
48. Trend of Smart Grid Development
Location: Amman, Jordan
Date: January 27, 2019

- Sponsor:** IEEE-IAS, Chapter Meeting
49. Keynote: Arc Flash Hazard and Electrical Safety-The New Revision of IEEE Std. 1584-2018
Location: Huzhou, China
Date: December 15, 2018
Sponsor: IEEE-IAS (The 1st IEEE Student Conference on Electric Machines and Systems)
 50. Seamless Integration of Renewable Energy
Location: Kansas State University, Manhattan, KS
Date: November 30, 2018
Sponsor: IEEE-IAS, Distinguished Lecturer
 51. Arc Flash Hazard and Electrical Safety-The New Revision of IEEE Std. 1584-2018
Location: San Jose, Costa Rica
Date: November 13, 2018
Sponsor: IEEE Standards Association
 52. Demand Response – An Assessment of Load Participation in the ERCOT Market
Location: Taipei, Taiwan
Date: October 26, 2018
Sponsor: Taiwan Research Institute, Taiwan
 53. Power Systems 100
Location: Kaohsiung, Taiwan
Date: October 25, 2018
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
 54. Strategy of the Priority Renewable Dispatch of Existing and Future Challenges in the USA
Location: Taipei, Taiwan
Date: October 23, 2018
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
 55. Applications of the Energy Storage Systems in the US
Location: Taipei, Taiwan
Date: October 22, 2018
Sponsor: Industrial Technology Research Institute (ITRI), Taiwan
 56. Arc Flash Hazards and Electrical Safety
Location: Austin, TX
Date: October 11, 2018
Sponsor: Austin Energy, City of Austin
 57. Battery Storage Technologies & Their Potential Applications in Power Systems
Location: Frisco, TX
Date: September 5, 2018
Sponsor: Transmission & Substation Design & Operation Symposium (TSDOS)
 58. Battery Storage Technologies & Their Potential Applications in Power Systems

- Location:** Budapest, Hungary
Date: August 16, 2018
Sponsor: IEEE-IAS, Distinguished Lecturer
59. Dynamic Equivalent Model Development for Large Scale Wind Farm
Location: Budapest, Hungary
Date: August 16, 2018
Sponsor: IEEE-IAS, Distinguished Lecturer
60. Virtual Power Plant (VPP) Control Algorithm for Optimal Operations of Regional PEV Charging Infrastructure
Location: Portland, OR
Date: August 7, 2018
Sponsor: IEEE-PES, General Meeting
61. Battery Storage Technologies & Their Potential Applications in Power Systems
Location: Shanghai, PR China
Date: July 20, 2018
Sponsor: Shanghai University of Electric Power
62. Grid Level Power Electronics and Electrical Safety
Location: Albuquerque, NM
Date: July 18, 2018
Sponsor: Sandia National Laboratory
63. Battery Storage Technologies & Their Potential Applications in Power Systems
Location: Webinar
Date: July 12, 2018
Sponsor: IEEE Smart Grid
64. Battery Storage Technologies & Their Potential Applications in Power Systems
Location: Hsinchu, Taiwan ROC
Date: May 21, 2018
Sponsor: Industrial Technology Research Institute (ITRI)
65. Battery Storage Technologies & Potential Applications in Power Systems
Location: Taipei, Taiwan ROC
Date: April 26, 2018
Sponsor: Taiwan Power Company
66. Trend of the Smart Grid Development
Location: Yilan, Taiwan ROC
Date: April 23, 2018
Sponsor: National Yilan University/IEEE IAS Distinguished Lecturer Program
67. Seamless Integration of Renewable Energy
Location: Kaohsiung, Taiwan ROC
Date: April 20, 2018
Sponsor: National Sun Yat Sen University/IEEE IAS Distinguished Lecturer Program

68. Trend of the Smart Grid Development
Location: Jinan, PR China
Date: November 23, 2017
Sponsor: Shandong University//IEEE IAS Distinguished Lecturer Program
69. Seamless Integration of Renewable Energy
Location: Beijing, PR China
Date: November 20, 2017
Sponsor: North China Electric Power University/IEEE IAS Distinguished Lecturer Program
70. Seamless Integration of Renewable Energy
Location: Lima, Peru
Date: September 23, 2017
Sponsor: Universidad Nacional del Callao/IEEE IAS Distinguished Lecturer Program
71. Arc Flash Hazard and Electrical Safety
Location: Junin, Peru
Date: September 21, 2017
Sponsor: Universidad Continental de Ciencias e Ingenieria/IEEE IAS Distinguished Lecturer Program
72. Arc Flash Model Development
Location: Calgary, Canada
Date: September 15, 2017
Sponsor: IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
73. Utility Deregulation and the Introduction of ERCOT Market
Location: Frisco, TX
Date: September 6, 2017
Sponsor: Transmission and Substation Design and Operation Symposium, UTA
74. Smart Grid Development in the US
Location: Aalborg, Denmark
Date: August 13, 2017
Sponsor: Aalborg University
75. The Impact of Time of Use (TOU) Rate Structure on The Consumption Pattern of The Residential Customers
Location: Chicago, IL
Date: July 19, 2017
Sponsor: 2017 IEEE PES General Meeting
76. Smart Grid Applications on Industrial and Commercial Power Systems
Location: Milan, Italy
Date: June 7, 2017
Sponsor: 2017 IEEE EEEIC and 1st I&CPS Europe
77. Arc Flash Hazard and Electrical Safety

- Location:** Milan, Italy
Date: June 6, 2017
Sponsor: 2017 IEEE EEEIC and 1st I&CPS Europe
78. Optimal Operation of PEV Charging Station through Energy Internet
Location: Shanghai, PR China
Date: May 27, 2017
Sponsor: Shanghai Forum/Fudan University
79. PMU Based Dynamic Equivalent Model Development for Large Scale Wind Farm
Location: Huazhong University of Science and Technology, Wuhan Hubei PR China
Date: May 23, 2017
Sponsor: IAS Hunan Chapter, Student Branch at Hunan University/IEEE IAS Distinguished Lecturer Program
80. Seamless Integration of Renewable Energy
Location: Changsha University of Science and Technology, Changsha Hunan PR China
Date: May 18, 2017
Sponsor: IAS Hunan Chapter, Student Branch at Hunan University/IEEE IAS Distinguished Lecturer Program
81. Trend of the Smart Grid Development
Location: Hunan University, Changsha Hunan PR China
Date: May 18, 2017
Sponsor: IAS Hunan Chapter, Student Branch at Hunan University/IEEE IAS Distinguished Lecturer Program
82. Trend of the Smart Grid Development
Location: Toronto, Canada
Date: May 12, 2017
Sponsor: IEEE IAS Toronto Chapter/IEEE IAS Distinguished Lecturer Program
83. Trend of the Smart Grid Development
Location: Detroit, MI
Date: April 12, 2017
Sponsor: Southeastern Michigan Joint PES/IAS Chapter/IEEE IAS Distinguished Lecturer Program
84. Utility Deregulation and the Introduction of ERCOT
Location: Taipei, Taiwan ROC
Date: March 21, 2017
Sponsor: Taiwan Power Company
85. Trend of the Smart Grid Development
Location: Tainan, Taiwan ROC
Date: March 20, 2017
Sponsor: National Cheng Kung University

86. IEEE Industry Application Society and the Smart Grid Applications on Industrial and Commercial Power Systems Department
Location: Chiayi, Taiwan ROC
Date: March 17, 2017
Sponsor: National Chung Cheng University
87. Trend of the Smart Grid Development
Location: Tainan, Taiwan ROC
Date: March 16, 2017
Sponsor: Kun Shan University of Science and Technology
88. Dynamic Equivalent Model Development for Large Scale Wind Farm
Location: Nanjing, PR China
Date: December 28, 2016
Sponsor: NARI Group Corporation
89. The Challenges and Strategies of Interconnecting Large Scale Wind Farms to the Grid
Location: Inner Mongolia
Date: December 27, 2016
Sponsor: Inner Mongolia Electrical Company
90. The IEEE Fellow Program & What Improves a Nomination
Location: Wuhan, Hubei PR China
Date: October 26, 2016
Sponsor: Huazhong University of Science and Technology
91. Utility Deregulation and the Introduction of ERCOT
Location: Wuhan, Hubei PR China
Date: October 25, 2016
Sponsor: Huazhong University of Science and Technology
92. Smart Grid Applications on Industrial and Commercial Power Systems Department
Location: Wuhan, Hubei PR China
Date: October 24, 2016
Sponsor: Huazhong University of Science and Technology
93. Arc Flash Hazard and Electrical Safety
Location: Washington DC
Date: September 28, 2016
Sponsor: Sandia National Lab.
94. FTR_LMP and Loss Allocation
Location: Frisco, TX
Date: September 7, 2016
Sponsor: Transmission & Substation Design & Operation Symposium (TSDOS)
95. Power Delivery System - Transformer and Transmission Lines
Location: Frisco, TX
Date: September 7, 2016
Sponsor: Transmission & Substation Design & Operation Symposium (TSDOS)

96. IEEE Industry Application Society and the Smart Grid Applications on Industrial and Commercial Power Systems Department
Location: Chiayi, Taiwan ROC
Date: March 17, 2017
Sponsor: National Chung Cheng University
97. Trend of the Smart Grid Development
Location: Tainan, Taiwan ROC
Date: March 16, 2017
Sponsor: Kun Shan University of Science and Technology
98. Dynamic Equivalent Model Development for Large Scale Wind Farm
Location: Nanjing, PR China
Date: December 28, 2016
Sponsor: NARI Group Corporation
99. The Challenges and Strategies of Interconnecting Large Scale Wind Farms to the Grid
Location: Inner Mongolia
Date: December 27, 2016
Sponsor: Inner Mongolia Electrical Company
100. The IEEE Fellow Program & What Improves a Nomination
Location: Wuhan, Hubei PR China
Date: October 26, 2016
Sponsor: Huazhong University of Science and Technology
101. Utility Deregulation and the Introduction of ERCOT
Location: Wuhan, Hubei PR China
Date: October 25, 2016
Sponsor: Huazhong University of Science and Technology
102. Smart Grid Applications on Industrial and Commercial Power Systems Department
Location: Wuhan, Hubei PR China
Date: October 24, 2016
Sponsor: Huazhong University of Science and Technology
103. Arc Flash Hazard and Electrical Safety
Location: Washington DC
Date: September 28, 2016
Sponsor: Sandia National Lab.
104. FTR_LMP and Loss Allocation
Location: Frisco, TX
Date: September 7, 2016
Sponsor: Transmission & Substation Design & Operation Symposium (TSDOS)
105. Power Delivery System - Transformer and Transmission Lines
Location: Frisco, TX
Date: September 7, 2016
Sponsor: Transmission & Substation Design & Operation Symposium (TSDOS)

106. Security Constraint Unit Commitment
Location: Taipei, Taiwan
Date: August 16, 2016
Sponsor: Taiwan Power Company
107. Financial Transmission Rights, Locational Marginal Price, and Congestion Management
Location: Taipei, Taiwan
Date: August 15, 2016
Sponsor: Taiwan Power Company
108. Detail Analysis of Smart Meter Data to Improve the Accuracy of Load Forecasting Design
Location: Boston, MA
Date: July 20, 2015
Sponsor: IEEE-PES General Meeting
109. Applying the VPP concept for Regional Optimization of Level 3 Charging Station Design
Location: Boston, MA
Date: July 19, 2015
Sponsor: IEEE-PES General Meeting
110. Smart Grid Applications on Industrial and Commercial power Systems
Location: Shanghai, China
Date: July 8, 2016
Sponsor: Shanghai University of Electric Power
111. The Challenges and Strategies of Interconnecting Large Scale Wind
Location: Beijing, China
Date: June 27, 2016
Sponsor: Electric Power Research Institute of China (EPRI China)
112. The Opportunities and Challenges of Utility Deregulation
Location: Beijing, China
Date: June 13, 2016
Sponsor: North China Electric Power University
113. The Introduction of ERCOT Market
Location: Beijing, China
Date: June 6, 2016
Sponsor: North China Electric Power University
114. Arc Flash - from Field Test to Empirical Method
Location: Irvine, CA
Date: April 18, 2016
Sponsor: ETAP User Group Meeting
115. PMU Based Dynamic Equivalent Model Development for Large Scale Wind Farm
Location: Chengdu, China

- Date:** January 5, 2016
Sponsor: Southwest Jiaotong University
116. Trend of the Smart Grid Developmen
Location: Chengdu, China
Date: January 4, 2016
Sponsor: University of Electronic Science and Technology of China
117. Natural Gas
Location: Beijing, China
Date: December 23, 2015
Sponsor: North China Electric Power University
118. Trend of Smart Grid Development
Location: Kuala Lumpur, Malaysia
Date: November 30, 2015
Sponsor: Multimedia University
119. PMU Based Dynamic Equivalent Model Development for Large Scale Wind Farm
Location: Arlington, TX
Date: October 22, 2015
Sponsor: Metrocon
120. Arc Flash Hazard and Electrical Safety
Location: Frisco, TX
Date: September 9, 2015
Sponsor: Transmission & Substation Design & Operation Symposium (TSDOS)
121. Internet of Things, Energy Internet, and Virtual Power Plant
Location: Denver, CO
Date: July 28, 2015
Sponsor: IEEE-PES General Meeting (Super Session)
122. Web-Based Real-time Monitoring System to Enhance the Market Participation of an Industrial Power System
Location: Denver, CO
Date: July 27, 2015
Sponsor: IEEE-PES General Meeting (Panel Session)
123. Infrastructure Development for Transportation Electrification
Location: Denver, CO
Date: July 27, 2015
Sponsor: IEEE-PES General Meeting (Panel Session)
124. Trend of Smart Grid Development
Location: Macau, China
Date: June 18, 2015
Sponsor: Office for the Development of Energy Sector, Macau, China
125. Arc Flash Hazard and Electrical Safety
Location: Arlington, TX

- Date:** February 20, 2015
Sponsor: Rotary Club, Arlington
126. The Procedure to Develop an IEEE Standard
Location: Beijing, China
Date: January 6, 2015
Sponsor: North China Electric Power University
127. Trend of the Smart Grid Development
Location: Macau, China
Date: December 17, 2014
Sponsor: University of Macau
128. Web-Based Real-time Monitoring System to Enhance the Market Participation of an Industrial Power System
Location: Long Beach, CA
Date: November 24, 2014
Sponsor: California State University, Long Beach (Keynote speaker at IEEE Green Energy and Systems Conference)
129. Integration of Wind Generation into Smart Grid
Location: Wuhan, China
Date: November 3, 2014
Sponsor: HuaZhong University of Science and Technology
130. Arc Flash and Electrical Safety
Location: Arlington, TX
Date: October 2, 2014
Sponsor: Metrocon, IEEE
131. Seamless Integration of Renewable Energy
Location: Dallas, TX
Date: September 9, 2014
Sponsor: Transmission & Substation Design & Operation Symposium (TSDOS)
132. New Arc Flash Calculator
Location: San Francisco, CA
Date: September 6, 2014
Sponsor: IEEE-IAS PCIC, P1584WG Meeting
133. Big Data and Its Applications in Power System
Location: Beijing, China
Date: June 27, 2014
Sponsor: North China Electric Power University
134. Smart Grid Related Research
Location: Prairie View, TX
Date: March 6, 2014
Sponsor: PVAMU
135. Update on IE and I_{arc} Model Development

- Location:** San Diego, CA
Date: February 4, 2014
Sponsor: IEEE-IAS ESW, P1584WG Meeting
136. Trend of Smart Grid Development
Location: Guangzhou, China
Date: December 23, 2013
Sponsor: China Southern Power Grid Company Limited
137. Seamless Integration of Wind Generation into Smart Grid
Location: Guangzhou, China
Date: December 23, 2013
Sponsor: South China University of Technology
138. Competitive Retail Market
Location: Beijing, China
Date: December 21, 2013
Sponsor: North China Electric Power University
139. Design of Wholesale Wheeling Charges
Location: Taipei, Taiwan ROC
Date: November 27 – 29, 2013
Sponsor: Taiwan Power Company
140. Integration of Wind Generation into Smart Grid
Location: College Station, TX
Date: October 23, 2013
Sponsor: Electric Power and Power Electronics Institute, TAMU
141. Implications of the Changing Research Enterprise
Location: Austin, TX
Date: October 22, 2013
Sponsor: IEEE
142. Update on IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Chicago, TX
Date: September 23, 2013
Sponsor: IEEE-IAS PCIC, P1584WG Meeting
143. Integration of Wind Generation into Smart Grid
Location: Macau, China
Date: September 3, 2013
Sponsor: International Forum for Clean Energy
144. Price Structure of the Retail Market
Location: Beijing, China
Date: July 6, 2013
Sponsor: North China Electric Power University
145. Rules and Regulations for Wheeling Charges
Location: Taipei, Taiwan ROC

- Date:** May 27 – 30, 2013
Sponsor: Taiwan Power Company
146. Arc Flash and Electrical Safety
Location: College Station, TX
Date: April 9, 2013
Sponsor: Relay Conference
147. Update on IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Dallas, TX
Date: March 18, 2013
Sponsor: IEEE-IAS PCIC, P1584WG Meeting
148. Challenges and Opportunities of Smart Grid Development
Location: Hong Kong
Date: October 31, 2012
Sponsor: The University of Hong Kong
149. Challenges and Opportunities of Smart Grid Development
Location: Kaohsiung, Taiwan ROC
Date: October 21, 2012
Sponsor: I-Shou University
150. Update on Incident Energy Calculation
Location: New Orleans, LA
Date: September 21, 2012
Sponsor: IEEE-IAS PCIC, P1584WG Meeting
151. Challenges and Opportunities of Smart Grid Development
Location: Wuhan, China
Date: August 21, 2012
Sponsor: Huazhong university of Science and Technology
152. Update on IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Portland, OR
Date: June 18, 2012
Sponsor: IEEE-IAS Pulp and Paper Annual Conference
153. Update on IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Chicago, IL
Date: June 5, 2012
Sponsor: S&C Technology Update
154. Seamless Integration of Wind Generation into Smart grid
Location: Beijing PRC
Date: May 30, 2012
Sponsor: Electric Power Research Institute of North China Electric Power Company
155. Trend of Smart grid Development
Location: Beijing PRC
Date: May 27, 2012

- Sponsor:** North China Electric Power University
156. Arc Flash and Electrical Safety
Location: Houston, TX
Date: March 7, 2012
Sponsor: IEEE PES, Houston Chapter
157. Update on IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Daytona Beach, FL
Date: January 29, 2012
Sponsor: IEEE-IAS Electrical Safety Workshop
158. Trend of the Smart Grid Development and Potential Applications of AMI
Location: Taipei, Taiwan
Date: December 29, 2011
Sponsor: Tatung University, Taipei, Taiwan
159. Trend of Smart grid Development
Location: Taipei, Taiwan
Date: December 19, 2011
Sponsor: Ministry of Economics, Taiwan
160. Update on IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Orlando, FL
Date: October 10, 2011
Sponsor: IEEE-IAS Annual Conference
161. Arc Flash and Electrical Safety
Location: Fargo, NC
Date: September 27, 2011
Sponsor: North Dakota State University
162. Update on IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Toronto, ON, Canada
Date: September 17, 2011
Sponsor: IEEE-IAS PCIC
163. Challenges, Solutions, and Opportunities of Smart grid Development
Location: Beijing PRC
Date: July 11, 2011
Sponsor: North China Electric Power University
164. Arc Flash and Electrical Safety
Location: Wuhan, Hubei PRC
Date: July 2, 2011
Sponsor: Huazhong University of Science and Technology
165. Model Verification of Generation Systems in ERCOT
Location: Tainan, ROC
Date: June 30, 2011

- Sponsor:** National Cheng Kung University
166. Update on IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Nashville, TN
Date: June 20, 2011
Sponsor: IEEE-IAS Pulp and Paper Annual Conference
 167. Arc Flash and Electrical Safety
Location: Fort Worth, TX
Date: June 21, 2011
Sponsor: IEEE PES, Dallas/Fort Worth Chapter
 168. Investigating of Possible Harmonic Emissions of a Commercial Wind Farm
Location: Fort Worth, TX
Date: March 15, 2011
Sponsor: IEEE PES, Dallas/Fort Worth Chapter
 169. Update on IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Toronto, Canada
Date: January 27, 2011
Sponsor: IEEE-IAS Electrical Safety Workshop
 170. Update on IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Bahrain
Date: December 19, 2010
Sponsor: EnergyCon 2010, IEEE International Energy Conference and Exhibition
 171. Smart Grid Development
Location: Taipei, Taiwan ROC
Date: November 8, 2010
Sponsor: CIE-USA. New-generation Green Energy Technology, Modern Engineering & Technology Seminar (METS)
 172. Revision and Developing of Arc Flash Standards
Location: Taipei, Taiwan ROC
Date: November 4, 2010
Sponsor: Tatung University
 173. Interconnection of PV into Utility Grid
Location: Taipei, Taiwan ROC
Date: November 3, 2010
Sponsor: Taiwan Power Company
 174. Parameter Estimation of Generation Systems in ERCOT
Location: Taipei, Taiwan ROC
Date: November 2, 2010
Sponsor: Taiwan Power Company
 175. Progress Report: IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: Savannah, GA
Date: October 25, 2010

- Sponsor:** NFPA 70E Committee Meeting
176. Progress Report: IEEE/NFPA Arc Flash Phenomena Collaborative Research Project
Location: San Antonio, TX
Date: September 18, 2010
Sponsor: IEEE Std. 1584 Working Group Meeting (PCIC Annual Conference)
177. Parameter Estimation of Generation Systems in ERCOT
Location: Jinan, Shandong, PR China
Date: May 30, 2010
Sponsor: Shandong University
178. Wind Generation: A Prominent Form of Renewable Energy
Location: Xian, PR China
Date: May 25, 2010
Sponsor: Xian Jiao Tong University
179. Locational Marginal Price and Nodal Price Calculation
Location: Beijing, PR China
Date: January 12, 2010
Sponsor: Electric Power Research Institute – China
180. Smart Appliances
Location: Beijing, PR China
Date: January 11, 2010
Sponsor: North China Electric Power University
181. Deregulated Power Market in the US
Location: Beijing, PR China
Date: January 8, 2010
Sponsor: North China Electric Power University
182. Impact of Wind Generation on the Power System Operation
Location: Taipei, Taiwan
Date: December 2, 2009
Sponsor: National Taipei University of Technology
183. Roadmap for Smart Grid Development in Taiwan
Location: Taipei, Taiwan
Date: November 30, 2009
Sponsor: Taiwan Power Company
184. Seamless Integration of Wind Generation into Smart Grid
Location: Taoyuan, Taiwan
Date: November 28, 2009
Sponsor: 30th Electric Power Symposium (Keynote Speech)
185. The Opportunities and Challenges of Smart Grid Development
Location: Taipei, Taiwan
Date: November 27, 2009
Sponsor: Tatung University

186. Smart Grid Development
Location: Taoyuan, Taiwan
Date: November 26, 2009
Sponsor: Institute of Nuclear Energy Research
187. Enabling Technologies for Customer Demand and Budget Management in the Deregulated Environment
Location: Hsinchu, Taiwan
Date: November 25, 2009
Sponsor: National Science and Technology Program for System-on-Chip
188. Smart Grid Development in the US
Location: Nanjing, China
Date: November 2009
Sponsor: Nanjing Normal University
189. Seamless Integration of Wind Generation into Smart Grid
Location: Wuhan, China
Date: October 2009
Sponsor: Huazhong University of Science and Technology
190. Opportunities and Challenges of Wind Generation Development
Location: Taipei, Taiwan
Date: June 2008
Sponsor: Tatung University
191. Demand Response Program in the US
Location: Kaohsiung, Taiwan
Date: March 2008
Sponsor: National Sun Yat San University
192. Wind Generation: A Prominent Form of Renewable Energy
Location: Arlington, TX
Date: January 2008
Sponsor: UTA Library
193. The Trend of the Electric Utility Industry
Location: Tainan, Taiwan
Date: October 2007
Sponsor: National Science Council
194. Wind Generation and its Impact on the System Operation
Location: Kaohsiung, Taiwan
Date: October 2007
Sponsor: National Sun Yat San University
195. Arcing Fault Detection of Motor Coil and Switchgear
Location: Tainan, Taiwan
Date: October 2007
Sponsor: National Cheng Kung University

196. Generation Planning and Operation Strategies in the SPP-EIS Market
Location: Taipei, Taiwan
Date: August 2007
Sponsor: Taiwan Power Company
197. Generation Planning and Operation Strategies in the SPP-EIS Market
Location: Wuhan, China
Date: June 2007
Sponsor: HuaZhong University of Science and Technology
198. Wind Generation Capacity Forecasting
Location: Jinan, China
Date: June 2007
Sponsor: Shandong University
199. Demand Response Programs
Location: Taipei, Taiwan
Date: April 2007
Sponsor: Taiwan Power Company
200. Wind Generation Capacity Forecasting for Unit Commitment Scheduling
Location: Shing Ju, Taiwan
Date: December 2006
Sponsor: National Tsing Hua University.
201. Wheeling Charge under Deregulated Environment
Location: Taipei, Taiwan
Date: August 21, 2006
Sponsor: Taiwan Power Company
202. Distributed Generation and Power Quality
Location: Chung-Li, Taiwan
Date: March 15, 2006
Sponsor: Chung Yuan Christian University
203. Distributed Generation and Its Impact on the Power Systems
Location: Tainan, Taiwan
Date: March 14, 2006
Sponsor: National Cheng Kung University
204. Intellectual Property Policies to Support the Industry-University Collaboration
Location: Taipei, Taiwan
Date: January 13, 2006
Sponsor: National Taiwan University of Science and Technology
205. Demand Response Programs in the United States
Location: Taipei, Taiwan
Date: January 11, 2006
Sponsor: Taiwan Power Research Institute
206. Development and Deployment of AMR Technologies

- Location:** Taipei, Taiwan
Date: January 11, 2006
Sponsor: Taiwan Power Research Institute
207. Summary of SPP Protocol
Location: Bangkok, Thailand
Date: October 28, 2005
Sponsor: Center of Excellence, Chulalongkorn University, Bangkok, Thailand
208. Energy Imbalance Service (EIS) of SPP Market
Location: Taipei, Taiwan
Date: September 28, 2005
Sponsor: Taiwan Power Company
209. Trend of Distributed Generation and Renewable Energy
Location: Bangkok, Thailand
Date: March 14, 2005
Sponsor: Provincial Electricity Authority, Thailand
210. System Impact Study for the Interconnection of Wind Generation and Utility System
Location: Taipei, Taiwan
Date: March 7-11, 2005
Sponsor: Taiwan Power Company
211. Special Protection System for Taipower System
Location: Taipei, Taiwan
Date: November 17-18, 2004
Sponsor: Department of Energy, Taiwan
212. The Trend of Utility Deregulation
Location: Henan, China
Date: August 18, 2004
Sponsor: Electric Power of Henan, Zhengzhou, Henan.
213. Utility Deregulation – The Texas Way
Location: Beijing, China
Date: August 16, 2004
Sponsor: North China Electric Power University
214. The Opportunity and Challenge of Utility Deregulation
Location: Beijing and Shandong, China
Date: March 15-19, 2004
Sponsor: North China Electric Power University, Northeast China Institute of Electric Power Engineering, Shandong University, and China EPRI
215. Artificial Neural Networks-based Wind Generation Forecasting for Unit Commitment Scheduling
Location: Taipei, Taiwan
Date: December 22, 2003
Sponsor: Taiwan Power Company

216. Artificial Neural Networks-based Short Term Load Forecasting for Unit Commitment Scheduling
Location: Taipei, Taiwan
Date: December 25, 2002
Sponsor: Taiwan Power Company
217. Robust Voltage Sags and Swells Detection Algorithms
Location: Taipei, Taiwan
Date: December 25, 2002
Sponsor: Taiwan Power Company
218. Utility Deregulation, The Texas Way
Location: Taipei, Taiwan
Date: December 24, 2002
Sponsor: Taiwan Power Company
219. Wheeling Charge Calculation
Location: Bangkok, Thailand
Date: December 18, 2002
Sponsor: Center of Excellence, Chulalongkorn University, Bangkok, Thailand
220. Deregulation Practices in PJM, CAISO, and ERCOT Systems
Location: Bangkok, Thailand
Date: December 17, 2002
Sponsor: National Energy Policy Office of Thailand
221. The Opportunities of Utility Deregulation
Location: Ngee Ann Polytechnic, Singapore
Date: May 21, 2002
Sponsor: Ngee Ann Polytechnic, Singapore
222. Special Designed Static Var Compensator for Generator-Turbine Negative Sequence Current Protection
Location: Taipei, Taiwan
Date: March 15, 2002
Sponsor: Power Research Institute, Taiwan Power Company
223. Set-Top Box for Automatic Meter Reading and Demand Management
Location: Taipei, Taiwan
Date: March 14, 2002
Sponsor: Power Research Institute, Taiwan Power Company
224. Utility Deregulation
Location: Kaohsiung, Taiwan
Date: March 11, 2002
Sponsor: National Sun Yet-Sen University
225. Point-to-Point, Flowgate, and Locational Marginal Price
Location: Anadarko, OK
Date: December 9, 2001

- Sponsor:** Western Farmer Electric Coop
226. Special Protection and Prevention Equipment to Improve the Reliability of the Taipower System Operation
Location: Taipei, Taiwan
Date: November 23, 2000
Sponsor: Taiwan Power Company
227. Neural Network Based Short-Term Load Forecasting
Location: Saudi Arabia
Date: October 21 - October 25, 2000
Sponsor: SCECO-East (Saudi Arabia)
228. Understanding the Unbundling Services
Location: Austin, Texas
Date: August 15, 2000
Sponsor: Texas Coalition of Cities for Utility Issues
229. Programmable Logic Controllers
Location: Monterrey, Mexico
Date: July 2 - July 5, 2000
Sponsor: Federal Power Commission, Mexico
230. Wheeling Charge Calculation Methods Under a Deregulated Environment
Location: Taipei, Taiwan
Date: May 24, 2000
Sponsor: Taiwan Power Company
231. Design Considerations of an Integrated Measurement, Monitoring, Control, and Protection System
Location: Taipei, Taiwan
Date: May 23, 2000
Sponsor: Taiwan Power Company
232. Modeling and Analysis of Modern Power Systems
Location: Arlington, TX
Date: September 13 – December 10, 1999
Sponsor: SCECO-South (Saudi Arabia)
233. Power Systems Protection
Location: Arlington, TX
Date: March 1 – December 4, 1999
Sponsor: SCECO-Central (Saudi Arabia)
234. 380, 230, 132 kV GIS and Metalclad Switchgear Operation and Maintenance
Location: Arlington, TX
Date: March 1 – December 4, 1999
Sponsor: SCECO-Central (Saudi Arabia)
235. Modeling and Analysis of Modern Power Systems. (1987 through 1999)
Location: Arlington, TX

- Period:** Two (2) Weeks Per Year
Sponsor: Energy Systems Research Center/UTA
236. Power Quality Forum
Location: Austin, TX
Date: October 30, 1998
Sponsor: Austin Energy Co., Austin, Texas
237. Opportunity and Challenging of Utility Deregulation (Panel Discussion)
Location: Edmonton, Canada
Date: May 6, 1998
Sponsor: IEEE-IAS, I&CPS
238. Power Systems Analysis
Location: Taipei, Taiwan
Date: December 17 – 31, 1997
Sponsor: Formosa Petrochemical Company
239. Microprocessor Based System Protection, Monitoring, and Control
Location: Singapore
Date: December 15 – 19, 1997
Sponsor: Singapore Electrical Company. Singapore
240. Relay Testing Workshop
Location: Arlington, TX
Date: One Week per year
Sponsor: Energy Systems Research Center (1993 through 1997)
241. Utility Deregulation and Its Potential Impact on End Users
Location: Dallas, TX
Date: August 8, 1997
Sponsor: North Texas Small Business Development Council and Electronic Protection & Controls Co.
242. Normal and Abnormal Operations of an Electrical Power System
Location: Arlington, TX
Date: June 9 - August 8, 1997
Sponsor: SCECO-Central (Saudi Arabia)
243. Power Quality - Utility Perception
Location: Electricity Generating Authority of Thailand (EGAT), Bangkok, Thailand
Date: June 4, 1997
Sponsor: Power Management Institute, International Inc.
244. Power Systems Protection and Microcomputer Based Relay
Location: Bangkok, Thailand
Date: June 2 - June 6, 1997
Sponsor: Power Management Institute, International Inc. Bangkok, Thailand
245. Power Quality
Location: Bangkok, Thailand

- Date:** May26 - May 30, 1997
Sponsor: Power Management Institute, International Inc. Bangkok, Thailand
246. Power Systems Analysis
Location: Bangkok, Thailand
Date: January 13 - January 17, 1997
Sponsor: Power Management Institute, International Inc. Bangkok, Thailand
247. Power Systems Operation, Dispatching, and Protection
Location: Arlington, TX
Date: June 17 - August 16, 1996
Sponsor: SCECO-Central (Saudi Arabia)
248. Power Quality and End Users
Location: Dallas, TX
Date: April 26, 1996 and July 26, 1996
Sponsor: North Texas Small Business Development Council and Electronic Protection & Controls Co.
249. Deregulation and Real/Reactive Power Wheeling
Location: Arlington, TX
Date: August 21 - August 25, 1995
Sponsor: Energy Systems Research Center
250. A Physical Laboratory for Relay Testing
Location: Dallas, TX
Date: August 10, 1995
Sponsor: AVO-International
251. Applications of Programmable Logic Controller (PLC)
Location: Arlington, TX
Date: August 7 - August 11, 1995
Sponsor: Energy Systems Research Center
252. Introduction to Supervisory Control and Data Acquisition (SCADA) System
Location: Arlington, TX
Date: May 29 - June 2, 1995
Sponsor: Energy Systems Research Center
253. Operation of a Dispatcher Training Simulator
Location: SCECO-EAST, Saudi Arabia
Date: January 3 - 10, 1995
Sponsor: SCECO-EAST
254. Voltage Surge Protection
Location: Denver, Colorado
Date: October 9, 1994
Sponsor: IEEE Industry Application Society
255. Energy Training Program on Power System Protection and Control
Location: Arlington, TX

- Date:** June 4 - August 10, 1990; June 2 - August 16, 1991
June 20 - August 26, 1994
- Sponsor:** Institute of International Education (IIE) and the United States Agency for International Development (USAID)
256. Operator Training Courses
Location: Arlington, TX
Date: June 13 - August 19, 1994
Sponsor: SCECO-EAST (Saudi Arabia) and Thailand Electric Power Company
257. Executive Symposium and Business Tour Program for China
Location: Arlington, TX
Date: April 25 - May 30, 1993
August 25 - September 25, 1993
Sponsor: People's Republic of China
258. Electric Power Quality
Location: Panama Canal Commission, Panama
Date: June 15 - June 19, 1992
Sponsor: Panama Canal Commission
259. Dynamic Stability Analysis and Control of an Electric Power System
Location: Taipei, Taiwan
Date: April 1 - August 31, 1991
Sponsor: Taiwan Power Company
260. Design of an Open Architecture Distribution Automation System.
Location: Nanjing, Xi'an, Tai-Yuan, and Beijing, PRC
Date: December 15, 1989 - January 5, 1990
Sponsor: Department of Energy, Peoples Republic of China
261. Design Concepts of Next Generation Power System Protective Relays
Location: Seoul, Korea
Date: August 22, 1989
Sponsor: Korea Electric Power Company (KEPCO)
262. Automated Mapping and Facility Management (AM/FM) in Distribution Automation System.
Location: Beijing, PRC
Date: December 28 - December 30, 1988
Sponsor: Department of Energy, Peoples Republic of China
263. Design and Development of a Power System Simulation Laboratory.
Location: Nanjing, PRC
Date: December 20 - December 27, 1988
Sponsor: Department of Energy, Peoples Republic of China
264. Energy Conservation and Load Management.
Location: Shanghai, PRC
Date: December 19, 1988

Sponsor: Department of Energy, Peoples Republic of China

265. National Development Seminar of the Republic of China.

Location: Taipei, Taiwan

Date: July 25 - August 5, 1988

Sponsor: Executive Yuan, Republic of China.

6. Student Supervision

(a) Ph.D. Dissertation Completed

1. Dr. Yuhao Zhou
Title: Dynamic Equivalent Wind Farm Models for Planning, Operation, and Post Fault Analyses
Completion Date: May 2021
2. Dr. Anusha Papasani
Title: Automatic System Restoration for Industrial Power Systems
Completion Date: May 2021
3. Dr. Long Zhao
Title: Exploring IoT-Based Applications in Power Systems Monitoring, Demand Side Management, and Protection
Completion Date: August 2020
4. Dr. Igor Brandão Machado Matsuo
Title: Subsynchronous Resonance Analysis and Detection
Completion Date: December 2019
5. Dr. Farshid Salehi
Title: Subsynchronous Control Interaction – Modeling and Detection
Completion Date: December 2018
6. Dr. Samuel Vega Cotto
Title: Application of the Research Process for the Development of a Microgrid Modular Design for Tribal Healthcare Facilities in the Navajo Nation: Kayenta Health Center Used as a Subject Study for Experimental Data
Completion Date: May 2018
7. Dr. Xing Wang
Title: Enhanced Customer Demand Load Profiles Estimation Algorithms for Field Application
Completion Date: August 2016
8. Dr. Shiuan-Hau Rau
Title: AC Arc Flash Light Intensity Estimator and MHD Based DC Arc Model
Completion Date: August 2016
9. Dr. Zhenyuan Zhang
Title: Arc Flash Hazards Analysis
Completion Date: December 2015
10. Dr. Zhaohao Ding
Title: Microgrid Optimal Operation under a Stochastic Environment
Completion Date: May 2015
11. Dr. Xueyang Cheng
Title: Employing Online Data for Dynamic Equivalent Model Parameter Identification of Large Scale Wind Farm
Completion Date: May 2015

12. Dr. Piampoom Sarikprueck
Title: Forecasting of Wind, PV Generation and Market Price for the Optimal Operations of the Regional PEV Charging Stations
Completion Date: May 2015
13. Dr. Meng Liu
Title: Energy Storage Devices for Seamless Integration of Renewable Energy
Completion Date: December 2014
14. Dr. Franklin L. Quilumba-Gudiño
Title: Using Advanced Metering Infrastructure Data for Smart Grid Development
Completion Date: May 2014
15. Dr. Hailong Hui
Title: Reliability Unit Commitment in ERCOT Nodal Market
Completion Date: May 2013
16. Dr. Mohammed I Abouheaf
Title: Optimization and Reinforcement Learning Techniques in Multi-Agent Graphical Games and Economic Dispatch
Completion Date: December 2012
(Co-Supervised with Dr. Frank Lewis)
17. Dr. Eithar Nashawati
Title: Dynamic System Reduction and Fault Location Identification Using Synchrophasors
Completion Date: May 2012
18. Dr. Chin-Chu Tsai
Title: PMU-Base Parameter Identification for the Synchronous Generator Dynamic Model
Completion Date: December 2011
19. Dr. Suratsavadee Koonlaboon Korkua
Title: Wireless Health Monitoring and Improvement System for Wind Turbines
Completion Date: December 2011
20. Dr. Qiaohui Hu
Title: Distribution Network Contingency Analysis and Contingency Detection with the Consideration of Load Models
Completion Date: August 2010
21. Dr. Yunzhi Cheng
Title: A Hybrid Method for Identifying and Estimating Key Dynamic Parameters for Exciters, PSS, and Governors Based on Event-Recorded Measurements
Completion Date: December 2009
22. Dr. Shun Liang
Title: A Novel Method for Major Harmonic Sources Identification in High Voltage Transmission Systems
Completion Date: December 2009

23. Dr. Morgan M. Kiani
Title: Effects of Voltage Unbalance and System Harmonics on the Performance of Doubly Fed Induction Wind Generators
Completion Date: May 2009
24. Dr. Abedalgany Abedallah Athamneh
Title: Open Main Detection in Underground Distribution Network Using Statistical Approaches
Completion Date: May 2009
25. Dr. Mandhir Singh Sahni
Title: Novel Algorithms for Detection/Classification of Low/Medium Voltage Switchgear & Motor Coil Arc Faults
Completion Date: August 2008
26. Dr. David Timothy Chessmore
Title: Voltage Profile Estimation and Reactive Power Control of Distribution Feeders
Completion Date: May 2008
27. Dr. Supun Tiptipakorn
Title: Web Based Integrated Multiple Function Customer Demand and Budget Management System
Completion Date: May 2008
28. Dr. Yea-Zong Kuo
Title: Dynamic Voltage Restorer for Sensitive Equipment
Completion Date: May 2007
29. Dr. Ming-Tse Kuo
Title: Dynamic Stability Analysis of Large-Scale Power Systems Using a Fast Investigation Method
Completion Date: December 2006
30. Dr. Kittipong Methaprayoon
Title: Generation Planning and Market Operation Strategies in the Southwest Power Pool Energy Imbalance Service Market
Completion Date: December 2006
31. Dr. Shun-Hsien Huang
Title: Web-Based Real-Time Monitoring System to Enhance the Participation of an Industrial Power System in a Restructured Utility Industry
Completion Date: August 2006
32. Dr. Pradit Fuangfoo
Title: The Impact of Distributed Generation on the Thailand's Electric Power System
Completion Date: August 2006
33. Dr. Chitra Yingvivanapong
Title: Multi-Area Unit Commitment and Economic Dispatch with Market Operation Components
Completion Date: May 2006

34. Dr. Worakarn Wongsachua
Title: Integrated High Speed Intelligent Utility Tie Unit for Disbursed/Renewable Generation Facilities
Completion Date: December 2005
35. Dr. Chai Chompoo-Inwai
Title: Transmission Congestion Management during Transition Period of Electricity Deregulation in Thailand
Completion Date: August 2005
36. Dr. Pornpranod Didsayabutra
Title: Determination of Real-Time Available Transfer Capability (ATC) in Thailand Power System
Completion Date: March 2001
(Co-Supervised with Dr. Bundhit Eua-Arporn, Associate Professor at Chulalongkorn University, Bangkok, Thailand)
37. Dr. Wen-Ta Hsiao
Title: Fast Voltage Stability Assessment and Reinforcement in an Interconnected Power System
Completion Date: December 1998
(Co-Supervised with Dr. M. S. Chen)
38. Dr. Chia-Hung Lin
Title: Energy Flow for Electric Power System Deregulation
Completion Date: May 1997
(Co-Supervised with Dr. M. S. Chen)
39. Dr. Han Ke
Title: Study the Abnormal Phenomena of Capacitor Voltage Transformer (CVT) at Taiwan Power Company
Completion Date: August 1996
(Co-Supervised with Dr. M. S. Chen)
40. Dr. Chung-Fu Chen
Title: A Study of the Operational Issues of the Transition and Deregulation of Taiwan Power Industry and Systems, With Emphasis on System Stability, Reactive Power, and Power Wheeling
Completion Date: May 1996
(Co-Supervised with Dr. M. S. Chen)
41. Dr. Shy-Ying Liu
Title: On-Line Dynamic Stability Analysis of Taiwan Power System
Completion Date: August 1995
(Co-Supervised with Dr. M. S. Chen)
42. Dr. Jen-Hung Chen
Title: The Prevention of the Supersynchronous Resonance Problem on the Turbine System of Generator with Static Var Compensator
Completion Date: August 1994

(Co-Supervised with Dr. M. S. Chen)

43. Dr. Yih-Ping Chang

Title: Three-Phase Load Flow for Unbalanced Systems

Completion Date: May 1994

(Co-Supervised with Dr. M. S. Chen)

44. Dr. Chung-Shih Hsu

Title: Dynamic Stability of the Taiwan Power System

Completion Date: May 1994

(Co-Supervised with Dr. M. S. Chen)

45. Dr. Yuin-Hong Liu

Title: Voltage Stability Study with Emphasis on Load Characteristics

Completion Date: May 1994

(Co-Supervised with Dr. M. S. Chen)

46. Dr. Jae-Hyeon Gim

Title: Dynamic Characteristic Analysis and Real-Time Monitoring System for an Industrial Power System

Completion Date: December 1993

(Co-Supervised with Dr. M. S. Chen)

47. Dr. Kuang-Chung Lai

Title: Computer Aided Analysis of Distribution System: Design and Implementation

Completion Date: December 1992

(Co-Supervised with Dr. M. S. Chen)

48. Dr. Jyh-Cherng Gu

Title: Design of a Microcomputer-Based Intelligent Distance Relay for Power System Protection

Completion Date: May 1992

49. Dr. Tze-Yee Ho

Title: The Application of Static Var Compensator on Negative Sequence Current Reduction for Generator Protection

Completion Date: May 1992

50. Dr. Rogelio Soto-Rodriguez

Title: Microcomputer Based Sliding Mode Control of an Induction Motor

Completion Date: May 1990

(Co-Supervised with Dr. K. S. Yeung)

(b) Master Thesis Completed

1. Ms. Azade Brahman
Title: Analytical Technique to Evaluate Impact of Mutual Coupling on Transmission Line Protection Schemes
Completion Date: December 2017
2. Mr. Franklin L. Quilumba-Gudiño
Title: Using Advanced Metering Infrastructure Data for Smart Grid Development
Completion Date: May 2014
2. Mr. Vijayanand Appanaickenpatti Ramachandran
Title: Short Circuit Analysis and Circuit breaker Interrupting Capability Validations for Industrial Power Plants
Completion Date: December 2011
3. Ms. Feiran Huang
Title: Optimization of PHEV Charging Station
Completion Date: December 2010
4. Mr. Himanshu Jain
Title: Detection and Severity Classification of Rotor Imbalance Faults in Induction Machines
Completion Date: May 2010
5. Ms. Weiping Xiao
Title: Optimization of Hydrogen Filling Station
Completion Date: December 2009
6. Mr. Ming-Shun Lu
Title: Combing the Wind Power Generation System with Energy Storage Equipments
Completion Date: December 2008
7. Mr. Frederico Von Pinho
Title: Development of a New Procedure for Assessing Power System Reliability in Preparation for NERC's Standards Compliance
Completion Date: December 2008
8. Ms. Xu Shu
Title: Common Data Format for the Power System Simulation Programs
Completion Date: August 2007
9. Ms. Jenny Tejada Carlos
Title: Partial Discharge and Arcing Fault Detection on Electric Apparatus
Completion Date: August 2006
10. Mr. Vishal Bhan
Title: Optimization of Hydrogen Fueling Station
Completion Date: August 2006

11. Ms. Sothaya Rasmidatta
Title: Hourly Weather Forecast Analysis
Completion Date: August 2006
12. Mr. Abedalgany Athamneh
Title: Benefits of FACTS Devices for Power Exchange Among Jordanian Interconnection with Other Countries
Completion Date: August 2005
13. Mr. Vinod Simha
Title: Transient Behavior of Five-Legged Transformer
Completion Date: May 2005
14. Mr. Eduardo Alberto Perez
Title: Parametric Study to Evaluate the Transient Stability of an Industrial Power System
Completion Date: May 2005
15. Mr. Anil Kanagala
Title: Development of Real-Time Monitoring System for an Industrial Power System
Completion Date: December 2004
16. Mr. Mandhir Singh Sahni
Title: Design and Implementation of Control Algorithms for Real Time Static Load Control Using LabVIEW and PLC
Completion Date: December 2004
17. Ms. Hemiao Zhang
Title: Neural Network Based On-Line Partial Discharge Health Monitoring System for Motors and Switchgears
Completion Date: May 2004
18. Mr. Chanwit Klongpanichpak
Title: Special Protection System Design for Plant Outage in Southern Thailand
Completion Date: May 2004
19. Mr. Eithar Nashawati
Title: Automatic Relay Settings Switchover for Mobile Substation
Completion Date: May 2004
20. Ms. Asma Al-Tamimi
Title: Three Phase Induction Motor Control System Design (Thesis Substitute)
Completion Date: December 2003
21. Mr. Vasin N. Vasinanukorn
Title: Turbine-Governor and Exciter Control of DC Motor-Generator Set
Completion Date: December 2003
22. Mr. Titti Saksornchai
Title: Improve the Performance of Unit Commitment Scheduling for a Utility Company
Completion Date: August 2003

23. Mr. Kittipong Methaprayoon
Title: Neural Network-Based Short Term Load Forecasting For Unit Commitment Scheduling
Completion Date: August 2003
24. Mr. Xia Gao
Title: Fault Location for Overhead Distribution Feeders
Completion Date: May 2003
25. Ms. Chitra Yingvivanapong
Title: Robust Algorithms for High Speed Voltage Sags and Swelling Detection
Completion Date: December 2001
26. Ms. Yea Zong Kuo
Title: Voltage Stability and Reactive Planning
Completion Date: December 1999
27. Ms. Mai-Chi Nguyen
Title: Signature Based Algorithm to Locate Harmonic Sources
Completion Date: December 1999
28. Mr. Quang Thanh Do
Title: The Voltage Stability Analysis of ERCOT+SPP Interconnected System with Emphasis on Uneven Regional Load Growth Rate
Completion Date: December 1998
29. Mr. Yulu Liu
Title: Design of a Microcomputer-Based Solid State Controller for On-Load-Tap-Change Transformer
Completion Date: May 1997
30. Mr. Wei Liu
Title: Microcomputer-Based Dynamic and Static Relay Testing Station
Completion Date: December 1996
31. Mr. Jugal Kishore Khanna
Title: Intelligent Load Shedding Relay with Disturbance Detection Scheme for Power System Protection
Completion Date: May 1995
32. Mr. Krishnan Narayanan
Title: The Design and Development of a Capacitor Bank Early Warning System
Completion Date: December 1994
33. Mr. Manoj Bapu Roge
Title: Design and Development of a Dual Processor Based Overcurrent Relay for Power System Protection
Completion Date: August 1994

34. Mr. Feridoon Hooshdaran
Title: Direct Current Busing System Design
Completion Date: December 1993
35. Mr. Sundaram M. Sethu
Title: Remote Monitoring, Data Retrieval, and Control of an Intelligent Protective Relay System
Completion Date: December 1992
36. Mr. Yu-Wei Shih
Title: Development of an Emergency Generation Assistance System for Taiwan Power Company
Completion Date: May 1991
37. Mr. Lian-Ju Shih
Title: Intelligent Load Shedding Relay with df/dt Dynamic Frequency Setting Adjustment for Power System Protection
Completion Date: May 1990
38. Mr. Shy-Ying Liu
Title: Use Optimal Power Flow (OPF) in Improving Voltage Profile and System Security of Power System
Completion Date: December 1989
39. Mr. Chung-Shih Hsu
Title: Superconducting Magnetic Energy Storage (SMES) for Power System Applications
Completion Date: August 1989
40. Mr. Jyh-Cherng Gu
Title: A Microcomputer Based Intelligent Load Shedding Relay
Completion Date: August 1988

(c) Current Students Supervision

- Ph.D. Students
 - Ms. Kaynat Zia
 - Mr. Ashley Williams
 - Mr. Po-Chen Chen
 - Mr. Po-En Su

7. Funded Projects and Grant

1. A Novel AI-Driven Smart System for Insecticide-Free Fire Ant Control (Co-PI)
Sponsor: U.S. Department of Agriculture (USDA); Agricultural Research Service (ARS)
Award: 99,453.00
Period: August 15, 2022 – August 15, 2024
PI: Shouyi Wang (IMSE)
Co-PI: Jianzhong Su (Math)
2. Project Manager - IEEE/NFPA Arc Flash Collaborative Research Project (PI)
Sponsor: IEEE & NFPA
Award: 73,880.00
Period: January 1, 2022 – December 31, 2022
3. UTA RET Site on Sustainable and Resilient Infrastructure for Urban Communities (Co-PI)
Sponsor: National Science Foundation
Award: 596,380.00
Period: December 1, 2021 – November 30, 2024
PI: Nur Yazdani (CE)
Co-PI: Melanie L Sattler and Kate Kyung Hyun (CE)
Co-PI: Victoria Chen (IMSE)
Co-PI: Muhammad Huda (Phys)
4. Wireless Monitoring System for Online Insect Tracking Data Analysis (PI)
Sponsor: U.S. Department of Agriculture (USDA); Agricultural Research Service (ARS)
Award: 75,606.00
Period: July 1, 2021 – June 30, 2023
Co-PI: Jianzhong Su (Math)
5. Probabilistic Modeling and Stochastic Optimization for Effective Demand Response Decision Management under Uncertainties in Emerging Smart Energy Markets (Co-PI)
Sponsor: ECCS - EPAS-Energy Power & Adapt System, National Science Foundation
Award: 466,068.00
Period: June 1, 2020 – May 31, 2023
PI: Shouyi Wang (IMSE)
Co-PI: Jay Rosenberger (IMSE)
Co-PI: Victoria Chen (IMSE)
6. Project Manager - IEEE/NFPA Arc Flash Collaborative Research Project (PI)
Sponsor: IEEE & NFPA
Award: 92,350.00
Period: January 1, 2020 – December 31, 2021
7. Project Manager - IEEE/NFPA Arc Flash Collaborative Research Project (PI)
Sponsor: IEEE & NFPA

- Award:** 73,880.00
Period: January 1, 2019 – December 31, 2019
8. Dynamic Short Circuit Model of Battery Storage System for DC Arc Flash Analysis (PI)
Sponsor: Sandia National Lab
Award: 195,000.00
Period: October 11, 2018 – October 10, 2022
9. Generation/Transmission Planning and Integration of Emerging Technologies to the Grid (PI)
Sponsor: PWR Solutions/DNV-GL
Award: 14,907.00
Period: September 1, 2018 – January 31, 2019
10. Generation/Transmission Planning and Integration of Emerging Technologies to the Grid (PI)
Sponsor: PWR Solutions/DNV-GL
Award: 14,631.00
Period: June 1, 2018 – August 31, 2018
11. IP Addressable System Performance Monitoring System (PI)
Sponsor: Formosa Plastics USA
Award: 218,500.00
Period: June 1, 2018 – October 31, 2020
12. Project Manager - IEEE/NFPA Arc Flash Collaborative Research Project (PI)
Sponsor: IEEE & NFPA
Award: 73,880.00
Period: January 1, 2018 – December 31, 2018
13. Platform Independent Apps for Incident Energy and Arcing Current Estimation (PI)
Sponsor: IEEE-SA, USA
Award: 56,153.00
Period: September 1, 2017 – August 31, 2018
Co-PI: Jia Rao (CSE)
14. Quality Assurance Research to Improve the Yield Rate of the Products (PI)
Sponsor: AC Electronics, USA
Award: 39,000.00
Period: October 9, 2017 – May 31, 2018
15. Web Based Dynamic Performance Monitoring System (PI)
Sponsor: Formosa Plastics USA
Award: 181,124.00
Period: September 1, 2016 – August 31, 2018
16. Preliminary Comparison between 50/60Hz and 400Hz Arc Flash Phenomena (PI)
Sponsor: Boeing Aircraft Company
Award: 29,300.00
Period: April 10, 2017 – September 30, 2017

17. Generation/Transmission Planning and Integration of Emerging Technologies to the Grid (PI)
Sponsor: PWR Solutions/KEMA
Award: 218,781.00
Period: November 15, 2013 – January 31, 2018
18. Project Manager - IEEE/NFPA Arc Flash Collaborative Research Project (PI)
Sponsor: IEEE & NFPA
Award: 73,880.00
Period: January 1, 2017 – December 31, 2017
19. Bridging the Gap in Marketing and Engineering: Introducing Human Factors into Utility Consumption Big Data Analysis (Co-PI)
Sponsor: UT Arlington
Award: 10,000.00
Period: July 1, 2016 – June 30, 2017
PI: Zhiyong Yang
20. Project Manager - IEEE/NFPA Arc Flash Collaborative Research Project (PI)
Sponsor: IEEE & NFPA
Award: 73,880.00
Period: January 1, 2016 – December 31, 2016
21. Evaluation of Power to Resistive Heater Elements in the Hypersonic Wind Tunnel (HWT) Facility (PI)
Sponsor: Sandia National Laboratories
Award: 19,619.00
Period: April 10, 2016 – September 30, 2016
22. Project Manager - IEEE/NFPA Arc Flash Collaborative Research Project (PI)
Sponsor: IEEE & NFPA
Award: 688,460.00 (Total budget of the project is \$3,700,000.00)
Period: September 18, 2008 – December 31, 2015
23. Development of PC and Mac companion CD product for Arc Flash awareness, education and reference (PI)
Sponsor: IEEE Standards Association
Award: 80,854.00
Period: September 1, 2012 – May 31, 2016
Co-PI: Heng Huang
24. Enhance Customer Demand Load Profile Estimation Algorithms for Field Application (PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Award: 142,054.00
Period: July 1, 2013 – August 31, 2015
Co-PI: Heng Huang

25. EFRI-RESTOR: Regenerative Hydrogen-Bromine Fuel Cell System for Energy Storage (PI at UTA)
Sponsor: National Science Foundation
Award: 159,999.00
Period: August 15, 2010 – August 14, 2015
PI: Trung Nguyen – University of Kansas
Co-PI: Eric McFarland – University of California Santa Barbara
Horia Metiu – University of California Santa Barbara
Peter Pintauro – Vanderbilt University
26. EPS/AIS Collaborative Research: Adaptive Design for Controllability of a System of Plug-in Hybrid Electric Vehicle Charging Stations (Co-PI)
Sponsor: National Science Foundation
Award: 416,431.00 (UTA Portion: 271,688.00)
Period: September 1, 2011 – August 31, 2015
PI: Victoria Chen (IMSE)
Co-PI: Jay Rosenberger (IMSE)
PI: Janet K Allen (University of Oklahoma Norman Campus)
Co-PI: Farrokh Mistree
27. UT Arlington REU Site on Hazard Mitigation (Co-PI)
Sponsor: NSF ENG
Award: 436,365.00
Period: June 2010 – August 2014
PI: Nur Yazdoni
Co-PI: Anand Puppala (CE), Melanie Sattler (CE), Yvette Weatherton (CE), John McEnery (CE), Matt Wright (CSE), and Bonnie Boardman (IE)
28. Effects of Unbalanced Voltage on the Operation Performance of Three-Phase Submersible Pumps (Co-PI)
Sponsor: CoServ Services
Award: 54,665.00
Period: October 1, 2011 – September 30, 2012
PI: David Wetz
29. Study and Evaluation on Power System of Point Comfort Plant of Formosa Plastics Co. (PI)
Sponsor: Formosa Plastics USA
Award: 121,000.00
Period: July 1, 2010 – January 31, 2013
Co-PI: Mingyu Lu
30. The Development of a Smart MicroGrid Testbed (PI)
Sponsor: DOE, Earmark Appropriation
Award: 500,000.00 (Including matching: 627,216.00)
Period: April 26, 2010 – April 25, 2013
Co-PI: David Wetz
Ali Davoudi

31. Using Smart Meter Readings to Identify the Consumption Pattern of Major Appliances in the Single Family Residential Homes (Co-PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Award: 254,168.00
Period: July 1, 2010 – May 31, 2013
PI: Heng Huang
32. UT Arlington RET Site on Hazard Mitigation (Co-PI)
Sponsor: NSF ENG
Award: 511,403.00
Period: March 2008 – February 2012
PI: Nur Yazdoni
Co-PI: Anand Puppala (CE), Melanie Sattler (CE), Yvette Weatherton (CE), John McEnergy (CE), Matt Wright (CSE), and Bonnie Boardman (IE)
33. Enhance Generation Parameters Verification Process for ERCOT System (PI)
Sponsor: CCET & Texas Emerging Technology Fund
Award: 108,255.00
Period: April 1, 2010 – December 31, 2013
34. Basic and Applied Research, Technical Services for Energy and Power Management (PI)
Sponsor: Lockheed Martin
Award: 12,376.00
Period: July 19, 2010 – December 31, 2013
Co-PI: David Wetz
35. Guidelines for Implementing Dynamic Thermal Circuit Rating (DTCR) in EMS (PI)
Sponsor: Electric Power Research Institute
Award: 70,031.00
Period: August 5, 2010 – December 31, 2012
36. Evaluation of Switching Surges Associated with Smart Meters (PI)
Sponsor: CoServ Services
Award: 36,000.00
Period: May 3, 2011 – September 30, 2011
Co-PI: David Wetz
37. A Fast Fault Detection and Localization Approach to Monitoring Cables in Underground Power Distribution Network (Co-PI)
Sponsor: Signal Processing, Inc. (DOE SBIR Phase I)
Award: 30,000.00
Period: June 21, 2010 – March 21, 2011
PI: Mingyu Lu
38. A Novel Wireless Sensor Network with Advanced Prognostic Algorithms for Condition Based Maintenance of Critical Power Plant Components (Co-PI)
Sponsor: Signal Processing, Inc. (DOE SBIR Phase II)
Award: 180,264.00
Period: September 1, 2008 – February 28, 2011

- PI:** Frank Lewis
39. Development of Battery Management and SOC Monitoring for Electric Vehicle Applications (Co-PI)
Sponsor: ArcAngel Technologies, LLC.
Award: 199,732.00
Period: June 1, 2009 – May 31, 2010
PI: Babak Fahimi
40. The Study on ERCOT Nodal Market (PI)
Sponsor: Kedong Company, Beijing, PR China
Award: 50,000.00
Period: July 1, 2008 – December 31, 2009
41. Hydrogen for Sustainable and Cost Effective Energy (Co-PI)
Sponsor: DOE 2009 Ear Mark Fund
Award: 367,000.00
Period: September 2008 – August 2009
PI: Krishnan Rajeshwar and Rick Billo
Co-PI: Phil Cohen
Victoria Chen
42. Implementing On-Line Open Main Detection System for the Secondary Distribution Networks by Processing the "RMS" Data (PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Award: 119,160.00
Period: April 11, 2008 – April 10, 2009
Co-PI: Heng Huang (CSE)
43. Power Factor Correction Options and Its Potential Advert Effects on the Distribution Network (PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Award: 49,836.00
Period: November 12, 2008 – August 13, 2009
Co-PI: Heng Huang (CSE)
44. Parameter Identification of Generation Systems in ERCOT (PI)
Sponsor: CCET & Texas Emerging Technology Fund
Award: 84,300.00
Period: January 1, 2008 – December 31, 2008
45. Voltage Profile Estimation and Control of the Distribution Feeder for Hydro-Québec Distribution Network (Co-PI)
Sponsor: Hydro Quebec
Award: 50,554.00
Period: May 1, 2007 – January 31, 2009
PI: Bei Gou
46. Distributed Load Profiling for the Distribution Network of Con Edison (PI)

- Sponsor:** Consolidated Edison Company of New York, Inc.
Award: 49,997.00
Period: October 1, 2007 – May 31, 2009
47. Technical concept design effort to develop an Intelligent Energy Control System (PI)
Sponsor: William Pyro, Inc. (Army SBIR Project)
Award: 7,731.00
Period: January 1, 2008 – April 30, 2008
48. Research Assistance on Power Delivery System (PI)
Sponsor: Power Solution, Inc.
Award: 14,018.00
Period: August 1, 2007 – July 31, 2008
49. A Novel Wireless Sensor Network with Advanced Prognostic Algorithms for Condition Based Maintenance of Critical Power Plant Components (Co-PI)
Sponsor: Signal Processing, Inc. (DOE SBIR Phase I)
Award: 30,000.00
Period: July 1, 2007 – March 31, 2008
PI: Frank Lewis
50. Multivariate Process Monitoring and Fault Identification (Co-PI)
Sponsor: TXU Power
Award: 84,200.00
Period: January 2007 – January 2008
PI: S. B. Kim
Co-PI: Victoria Chen
51. Integrated Volt/Var Control of distribution system (Co-PI)
Sponsor: Hydro Quebec
Award: 13,719.00
Period: May 2007 – September 2007
PI: Bei Gou
52. Wind Generation Forecasting and Load Forecasting Software Development (PI)
Sponsor: Western Farmer Electric Coop
Award: 30,000.00
Period: April 18, 2007 – April 13, 2008
53. Market-Clearing Prices in Power Dispatch Markets by Mixed Integer Programming (Co-PI)
Sponsor: ISO-New England
Award: 20,153.00
Period: April 2007 – July 2007
PI: Bei Gou
54. Transmission Voltage Harmonic Study for TXU Electric Delivery (PI)
Sponsor: TXU Electric Delivery
Award: 50,163.00

- Period:** October 2006 – January 2008
55. Equipment Donation- Six (6) Microprocessor Based Impedance Relay (SEL-421) (PI)
Sponsor: Schweitzer Engineering Laboratories, Inc.
Award: 36,000.00
Period: September 2006
56. Standard Data Exchanges for Distribution System Management (PI)
Sponsor: Williams-Pyro Inc. (DOE SBIR)
Award: 10,120.00
Period: September 2006 – May 2007
57. Voltage Profile Estimation and Control of the Distribution Feeder (PI)
Sponsor: TXU Electric Delivery
Award: 111,081.00
Period: January 16, 2006 – February 28, 2008
58. Wind Generation Forecasting and SPP EIS Market Software Development (PI)
Sponsor: Western Farmer Electric Coop
Award: 55,000.00
Period: January 1, 2006 – March 31, 2007
59. Gift from TXU Energy
Sponsor: TXU Electric Delivery
Award: 8,000.00
Period: October 2005
60. Develop an Artificial Neural Network (ANN) Based Health Monitoring System for Power Distribution Switchgear and Motor Windings (PI)
Sponsor: Intelligent Automation, Inc. (Small Business Initiative Research (SBIR) Phase II, US Air Force)
Award: 250,000.00
Period: September 2004 – September 2007
Co-PI: Dr. Soontorn Oraintara
61. Integrating of Neural Network Based Short Term Load Forecasting Program into SCADA System for Unit Commitment Scheduling (PI)
Sponsor: Western Farmer Electric Coop.
Award: 160,000.00
Period: January 2002 – January 2006
Co-PI: Dr. Raymond Shoults
62. Stability Study for ExxonMobil Beaumont Chemical Plant (PI)
Sponsor: ExxonMobil
Award: 15,000.00
Period: July 2005 – August 2005
Co-PI: Dr. Rasool Kenarangui
63. Review of Turbine Generator BCOE (Co-PI)
Sponsor: Army Corp of Engineers

- Award:** 25,000.00
Period: February 2005 – August 2005
PI: Dr. Rasool Kenarangui
64. Protective Relay Installation for Whitney Hydro Power Plant (Co-PI)
Sponsor: Army Corp of Engineers
Award: 193,000.00
Period: September 2004 – August 2005
PI: Dr. Rasool Kenarangui
65. Impedance Ground and Protection for Lake Whitney Hydro Power Plant (Co-PI)
Sponsor: Army Corp of Engineers
Award: 70,000.00
Period: September 2004 – August 2005
PI: Dr. Rasool Kenarangui
66. Generation Protection Analysis and Design for Lake Whitney Hydro Power Plant (Co-PI)
Sponsor: Army Corp of Engineers
Award: 35,000.00
Period: April 2004 – September 2004
PI: Dr. Rasool Kenarangui
67. Dynamic Performance Monitoring System for the Interconnection Between The Co-generation and Utility Grid (PI)
Sponsor: Formosa Plastics USA
Award: 70,370.00
Period: February 2004 – August 2005
68. Develop an Artificial Neural Network (ANN) Based Health Monitoring System for Power Distribution Switchgear and Motor Windings (PI)
Sponsor: Intelligent Automation, Inc. (Small Business Initiative Research (SBIR) Phase I, US Air Force)
Award: 30,000.00
Period: July 2003 – March 2004
Co-PI: Dr. Soontorn Oraintara
69. Integrated Intelligent Utility Tie System for Distributed Generation (PI)
Sponsor: Intelligent Automation, Inc. (Small Business Initiative Research (SBIR), National Science Foundation)
Award: 30,000.00
Period: July 2003 – December 2003
Co-PI: Dr. Soontorn Oraintara
70. Study and Develop a Strategic Plan for an Energy Center at Alcorn State University (PI)
Sponsor: Alcorn State University
Award: 99,800.00
Period: January 2003 – December 2003
71. Machine Models and Parameters for FORMOSG6, FORMOSG7, and FORMOSG9 (PI)

- Sponsor:** Formosa Plastics USA
Award: 10,000.00
Period: September 2002 – December 2002
72. Magnetic Field Calculation for Upgraded Transmission Lines (PI)
Sponsor: Rock River Energy LLC
Award: 9,000.00
Period: March 2002 – May 2002
73. Interdisciplinary Studies Program for SCECO-Central Operators (Co-PI)
Sponsor: Saudi Consolidated Electric Company in the Central Region
Award: 140,000.00
Period: September 2001 – August 2002
PI: Dr. Mo-Shing Chen
74. Robust Algorithms for High Speed Voltage Sags and Swelling Detection (PI)
Sponsor: Texas Instruments
Award: 60,000.00
Period: February 2001 – August 2001
Co-PI: Dr. Soontorn Oraintara
75. Arcing Faults Detection and Location of a Radial Distribution System (PI)
Sponsor: Foster Miller Technology
Award: 75,000.00
Period: January 2001 – January 2003
76. Neural Network Based Short-Term Load Forecasting (Co-PI)
Sponsor: Saudi Consolidated Electric Company in the East Region
Award: 35,000.00
Period: October 21 - 25, 2000
PI: Dr. Mo-Shing Chen
Co-PI: Dr. Raymond Shoults
77. Undergraduate Laboratory Development Fund (Co-PI)
Sponsor: LERR
Award: 263,300.00
Period: September 2000 – August 2001
PI: Dr. Jon Bredow
Co-PI: Dr. George V. Kondraske
78. Interdisciplinary Studies Program for SCECO-Central Operators (Co-PI)
Sponsor: Saudi Consolidated Electric Company in the Central Region
Award: 160,000.00
Period: September 2000 – August 2001
PI: Dr. Mo-Shing Chen
79. Laboratory Equipment Donation (The equipment is located in Room 218 Engineering Laboratory Building and has been used for undergraduate capstone design course)

- Sponsor:** Southern Methodist University
Award: 120,000.00
Period: August 2001
80. Protocol Development for Power Quality and System Reliability Assessment (PI)
Sponsor: Alcorn State University
Award: 64,800.00
Period: May 2000 – August 2001
81. Identify the Distinct Signatures of Arcing Faults and Use Them for Possible Arcing Faults Locating in the Underground Networks (Co-PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Award: 100,000.00
Period: January 1999 – December 1999
PI: Dr. Mo-Shing Chen
82. Interdisciplinary Studies Program for SCECO-Central Operators (Co-PI)
Sponsor: Saudi Consolidated Electric Company in the Central Region
Award: 440,000.00
Period: September 1998 – August 2000
PI: Dr. Mo-Shing Chen
83. Interdisciplinary Studies Program for SCECO-Central Operators (Co-PI)
Sponsor: Saudi Consolidated Electric Company in the Central Region
Award: 240,000.00
Period: September 1996 – August 1998
PI: Dr. Mo-Shing Chen
84. Training Program: Power System Protection (Co-PI)
Sponsor: Saudi Consolidated Electric Company in the Central Region
Award: 232,500.00
Period: March 1999 – December 1999
PI: Dr. Mo-Shing Chen
Co-PI: Dr. Raymond Shoults
85. Training Program: 380, 230, 132 kV GIS Metalclad Switchgear Operation & Maintenance (Co-PI)
Sponsor: Saudi Consolidated Electric Company in the Central Region
Award: 202,500.00
Period: March 1999 – December 1999
PI: Dr. Mo-Shing Chen
Co-PI: Dr. Raymond Shoults
86. Feasibility Study of AC Interconnection Between ERCOT and the Southwest Power Pool (Co-PI)
Sponsor: Public Utility Commission of Texas
Award: 85,000.00
Period: January 1998 – December 1998
PI: Dr. Mo-Shing Chen

- Co-PI:** Dr. Raymond Shoults
87. Implementation of Chinese Language and Characters in the RAVE System
Sponsor: Hughes Training Co.
Period: March 1996 - May 1996
Award: 4,143.00
88. Open Main Detection and Location in Underground Electric Distribution Network. (Co-PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Period: September 1995 - December 1998
Award: 300,000.00
PI: Dr. Mo-Shing Chen
89. Training Program: Microprocessor Based System Protection, Monitoring, and Control (PI)
Sponsor: Singapore Electrical Company. Singapore
Date: December 15 – 19, 1997
Award: 25,000.00
90. Training Program: Power Systems Analysis (Co-PI)
Sponsor: Formosa Petrochemical Company. Taipei, Taiwan ROC
Period: December 17 – 31, 1997
Award: 100,000.00
PI: Dr. Mo-Shing Chen
91. Training Program: Power Systems Protection and Microcomputer Based Relay (PI)
Sponsor: Power Management Institute, International Inc. Bangkok, Thailand
Period: June 2 - June 6, 1997
Award: 20,000.00
Co-PI: Dr. Mo-Shing Chen
92. Training Program: Power Quality (PI)
Sponsor: Power Management Institute, International Inc. Bangkok, Thailand
Period: May 26 - May 30, 1997
Award: 20,000.00
Co-PI: Dr. Mo-Shing Chen
93. Training Program: Power Systems Analysis (PI)
Sponsor: Power Management Institute, International Inc. Bangkok, Thailand
Period: January 13 - January 17, 1997
Award: 20,000.00
Co-PI: Dr. Mo-Shing Chen
94. Interconnection of Co-Generation and Independent Power Producer with Electrical Power System (Co-PI)
Sponsor: Formosa Petrochemical Company. Taipei, Taiwan ROC
Period: June 1996 - May 1997
Award: 110,000.00

- PI:** Dr. Mo-Shing Chen
95. Interdisciplinary Studies Program for SCECO-Central Operators (Co-PI)
Sponsor: Saudi Consolidated Electric Company in the Central Region
Award: 400,000.00
Period: September 1992 – August 1996
PI: Dr. Mo-Shing Chen
96. Equipment Donation - Pulsar & Pulse Master (Relay Testing Equipment)
Sponsor: AVO International
Period: September 1994
Award: 57,000.00
97. Static and Dynamic Performance Test of Network Protector by using ESRC's Power System Simulation Laboratory. (PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Period: September 1994 - May 1995
Award: 15,000.00
98. Feasibility Study of the Development of a Distribution Network Simulation Laboratory (Co-PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Period: January 1994 - December 1994
Award: 109,000.00
PI: Dr. Mo-Shing Chen
99. On-Line Dynamic Stability Monitoring System for Taiwan Power Company. (PI)
Sponsor: Taiwan Power Company
Period: January 1994 - December 1994
Award: 71,000.00
Co-PI: Dr. Mo-Shing Chen
100. Investigation of the Causes of Capacitor Voltage Transformer (CVT) Damage and Its Prevention Strategy for Taiwan Power Company. (Co-PI)
Sponsor: Taiwan Power Company.
Period: July 1993 - June 1994
Award: 110,000.00
PI: Dr. Mo-Shing Chen
101. A Microcomputer Based Intelligent Load Shedding Relay with Disturbance Detection Scheme for Power System Protection. (PI)
Sponsor: Southern California Edison and Electronic Protection & Controls Co.
Period: August 1992 - March 1994
Award: 59,781.00
102. Development of a Real Time Power System Dynamic Performance Monitoring System (PI)
Sponsor: Formosa Plastics USA
Period: June 1993 - May 1994

- Award:** 75,000.00
Co-PI: Dr. Mo-Shing Chen
103. Dynamic Stability Analysis of a Co-Generation Power System (Co-PI)
Sponsor: Formosa Plastics USA
Period: June 1992 - May 1993
Award: 35,000.00
PI: Dr. Mo-Shing Chen
104. Mitigation of the Low Frequency Oscillation Problem in Taiwan Power System (Co-PI)
Sponsor: Taiwan Power Company
Period: June 1992 - May 1993
Award: 69,000.00
PI: Dr. Mo-Shing Chen
105. Training Program: Electric Power Quality (PI)
Sponsor: Panama Canal Commission
Period: June 15 - June 19, 1992
Award: 20,000.00
106. Static and Dynamic Performance Test of Multifunction Protective Relay by using ESRC's Power System Simulation Laboratory (PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Period: February 1991 - May 1991
Award: 25,000.00
Co-PI: Dr. Mo-Shing Chen
107. Design of a Generalized Cable Constant Calculation Program (Co-PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Period: October 1990 - August 1991
Award: 50,000.00
PI: Dr. Mo-Shing Chen
108. Transient Analysis of Communication System's Grounding Network (PI)
Sponsor: MCI
Period: June 1990 - December 1990
Award: 25,000.00
109. Microcomputer Based Distance Relay System for Underground Transmission Lines Protection (PI)
Sponsor: Consolidated Edison Company of New York, Inc.
Period: May 1990 - June 1993
Award: 250,000.00
Co-PI: Dr. Mo-Shing Chen
110. Dynamic Operation Characteristics of Taipower System (Co-PI)
Sponsor: Taiwan Power Company
Period: January 1990 - December 1991
Award: 78,000.00

- PI:** Dr. Mo-Shing Chen
111. Intelligent Universal Relay with Advanced Knowledge Based Technology for Power System Protection (PI)
Sponsor: Advanced Technology Program, Texas Higher Education Coordinating Board
Period: January 1990 - August 1992
Award: 60,000.00
Co-PI: Dr. Mo-Shing Chen
112. Aircraft Power System Simulation, Research, and Development (Co-PI)
Sponsor: General Dynamics
Period: January 1990 - December 1990
Award: 25,000.00
PI: Dr. Raymond Shoults
113. Aircraft Power System Simulation, Research, and Development (Co-PI)
Sponsor: NASA
Period: January 1990 - December 1990
Award: 20,000.00
PI: Dr. Raymond Shoults
114. Electromagnetic Field (EMF) Distribution on an Unbalanced Three-Phase High Voltage Transmission Line (PI)
Sponsor: Graduate School, The University of Texas at Arlington
Period: May 1990 - August 1990
Award: 4,700.00
115. Design of an Intelligent Load Shedding Relay (PI)
Sponsor: Electronic Protection & Controls, Co.
Period: September 1989 - December 1991
Award: 48,617.00
116. Improve Current System Operation and Strategic System Planning of Taipower System (Co-PI)
Sponsor: Taiwan Power Company
Period: March 1989 - February 1990
Award: 78,200.00
PI: Dr. Mo-Shing Chen
117. Dynamic Operation Characteristics of the KEPCO Power System (Co-PI)
Sponsor: Korea Electric Power Company (KEPCO)
Period: September 1987 - August 1989
Award: 160,000.00
PI: Dr. Mo-Shing Chen
118. Analysis of Surge Protectors (PI)
Sponsor: Frito Lay, Inc.
Period: March 1987 - August 1987
Award: 32,063.00