

Curriculum Vitae

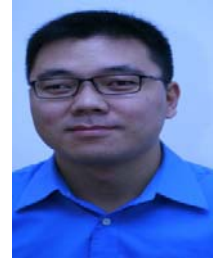
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Education

- **Jul. 2004 - Nov. 2009** PhD, Power System Engineering, Nanyang Technological University (NTU), Singapore
- **Sept. 2000 – Apr. 2003** M. Eng., Power System and Its Automation, Nanjing University of Science and Technology, China
- **Sept. 1996 – Jul. 2000** B. Eng., Power System and Its Automation, Nanjing University of Science and Technology, China

Working Experience

- **Nov. 2017 – Now** Visiting scholar, School of Engineering and Applied Science, Harvard University, USA
- **Sept. 2013 – Now** Associate Professor, Department of Electrical Engineering, Technical University of Denmark (DTU), Denmark
- **Nov. 2013** - Visiting researcher, SINTEF Energy Research, Norway
- **Nov. 2010 – Aug. 2013** Assistant Professor, Department of Electrical Engineering, Technical University of Denmark (DTU), Denmark
- **Feb. 2012 – May 2012** Visiting scholar, University of California, Berkeley, USA
- **Oct. 2009 – Oct. 2010** Postdoc, Department of Electrical Engineering, Technical University of Denmark (DTU), Denmark
- **Mar. 2008-Oct. 2009** Senior R&D Engineer, Vestas Technology R&D Singapore Pte. Ltd., Singapore
- **Oct. 2007 – Mar. 2008** Electrical Engineer, Squire Mech Consulting Mechanical & Electrical Engineers Pte. Ltd., Singapore

Professional Membership

- Editor, IEEE Transactions on Smart Grid (Jul. 2014 -)
- Editor, IEEE Power Engineering Letters (Oct. 2015 -)
- Associate Editor, International Journal of Electrical Power and Energy Systems (Aug. 2016 -)
- Associate Editor, IET Renewable Power Generation (May 2017 -)
- Associate Editor, Journal of Modern Power Systems and Clean Energy (Jan. 2017 -)
- Lead Guest Editor, IET Renewable Power Generation Special Issue, "Coordinated Control and Protection of Offshore Wind Power and Combined AC/DC Grid", 2017
- Guest Editor, IET Generation, Transmission & Distribution Special Issue "distributed & autonomous dispatch and control for active distribution network/microgrids-- potential scheme to realize plug & play of DER", 2016

- Guest Editor, IET Generation, Transmission & Distribution Special Issue “Smart Grid Voltage Control”, 2016
- IEEE Senior Member (2015)
- Member of IEEE Task Force “Voltage Control for Smart Grids”
- International Advisory Committee Member, 2016 EMN Meeting on Energy and Sustainability
- International Advisory Committee Member, 2017 IEEE PES PowerTech conference
- Technical Committee Member, 2017 4th International Conference on Power and Energy Systems Engineering (CPESE 2017)
- Technical Committee Member, IEEE SmartGridComm 2017
- Technical Committee Member, IET RPG 2017
- International Technical Committee Member, ICPES 2017
- Technical Committee Chair, IET RPG 2018

Grants (In total about 28 M DKK, about 4 M USD)

1. NORSTRAT – Nordic Power Roadmap 2050: Strategic Choices towards Carbon Neutrality (4.5 million NOK for DTU from Nordic Energy Research)
2. Sino-Danish Center for Education and Research (SDC) PhD project “Coordinated Control of Wind Power Plants and Energy Storage Systems” (1.2 million DKK for a fully financed PhD project, and salary and travel cost for supervisors to China from SDC)
3. **Locational Marginal Pricing (LMP) and Congestion Management for Electricity Distribution Networks** (10,000 DKK for travel and four month research stay in UC Berkeley from Danish Agency for Science, Technology and Innovation)
4. Coordinated Control of Wind Power Plant Clusters for Interconnected Power Systems with High Wind Power Penetration (163,972 DKK from Danish Agency for Science, Technology and Innovation)
5. VSC HVDC connection and control for offshore wind power plants (352,936 DKK from Danish of Agency for Science, Technology and Innovation)
6. Østerild Advanced Grid Test Facility for Wind Power Plants (316,987 DKK for DTU Elektro from GreenLabsDK, the total project budget is 61,197,000 DKK)
7. Otto Mønsted's Visiting Professorship for Prof. Mohammad Shahidehpour from IIT, USA (210,000 DKK from the Otto Mønsted's Fond)
8. Integrated Microgrid Planning, Operation and Control System with Distributed Generation (165,772 DKK from Danish of Agency for Science, Technology and Innovation)
9. Modelling and Simulation of Wind Power & VSC-HVDC and its Application in Offshore Wind Power Integration (300,000 DKK from the RED Programme)
10. Ideal grid for all (IDE4L) (748,770 Euros from EU Commission, FP7 collaborative project)
11. IDE4L-DK Top-up (2,053,000 DKK from the Forskel programme)
12. Framework agreement with Energinet.DK (3,550,000 DKK from Energinet.DK)
13. Real time wide area measurement and control for sustainable power systems (263,757 DKK from Danish of Agency for Science, Technology and Innovation)
14. Energy Management System for Energy Internet (277,128 DKK from Danish of Agency for Science, Technology and Innovation)
15. Voltage Control on the transmission grid using wind power at other voltage levels (VOLATILE) (276,232 Euros from the ERANet Smart Grids Plus Fund, Horizon 2020 project)

16. Otto Mønsted's Visiting Professorship for Prof. Yuanzhang Sun from Wuhan University, China (210,000 DKK from the Otto Mønsted's Fond)
17. Distributed optimization and control of distributed electric and thermal energy resources (280,483 DKK from Danish of Agency for Science, Technology and Innovation)
18. Coordinated operation of integrated energy systems (5.2 M DKK from EUDP)
19. Robust congestion management and distributed self-healing for active distribution networks (1.5 M DKK from DTU)

Research projects

1. EDISON - Electric vehicles in a Distributed and Integrated market using Sustainable energy and Open Network, 49 M DKK
2. Wind in Øresund, 1.5 M Euro
3. Pre-standardization of electric simulation models for wind power generation, 1.25 M DKK
4. Test facility for grid connection characteristics of wind power plants
5. iPower - A Strategic Platform for Innovation and Research within Intelligent Electricity (SPIR), 120 M DKK
6. EcoGridEU - A prototype for European Smart Grids, 23 M Euro
7. NORSTRAT - Nordic Power Roadmap 2050: Strategic Choices towards Carbon Neutrality, 16 M NOK
8. Sino-Danish Center for Education and Research (SDC) PhD project "Coordinated Control of Wind Power Plants and Energy Storage Systems", 1.2 M DKK
9. Locational Marginal Pricing (LMP) and Congestion Management for Electricity Distribution Networks
10. Coordinated Control of Wind Power Plant Clusters for Interconnected Power Systems with High Wind Power Penetration
11. VSC HVDC connection and control for offshore wind power plants
12. Østerild Advanced Grid Test Facility for Wind Power Plants
13. Otto Mønsted's Visiting Professorship for Prof. Mohammad Shahidehpour from IIT, USA
14. Integrated Microgrid Planning, Operation and Control System with Distributed Generation
15. Modelling and Simulation of Wind Power & VSC-HVDC and its Application in Offshore Wind Power Integration
16. Ideal grid for all (IDE4L), 8 M Euro
17. Framework agreement with Energinet.DK, 3.55 M DKK
18. IDE4L-DK Top-up, 2 M DKK
19. Real time wide area measurement and control for sustainable power systems
20. Energy Management System for Energy Internet
21. Voltage Control on the transmission grid using wind power at other voltage levels (VOLATILE), 0.75 M Euro
22. Otto Mønsted's Visiting Professorship for Prof. Yuanzhang Sun from Wuhan University, China
23. Distributed optimization and control of distributed electric and thermal energy resources
24. Coordinated operation of integrated energy systems, 12.5 M DKK
25. Robust congestion management and distributed self-healing for active distribution networks, 1.5 M DKK
26. MULTI-DC: Innovative Methods for Optimal Optimal Operation of Multiple HVDC Connections and Grids, 15 M DKK

Scientific publications (in total 143, including 55 SCI indexed papers, 19 other journal papers, and 69 conference papers)

SCI journal papers

1. W. Kong, K. Ma*, and Q. Wu, "Three Phase Power Imbalance Decomposition into Systematic Imbalance and Random Imbalance," *IEEE Transactions on Power Systems*, in press.
2. Y. Guo, H. Gao*, Q. Wu, H. Zhao, J. Østergaard, and M. Shahidehpour, "Enhanced Voltage Control of VSC-HVDC Connected Offshore Wind Farms Based on Model Predictive Control," *IEEE Transactions on Sustainable Energy*, in press.
3. S. Huang, Q. Wu*, H. Zhao, and C. Li, "Distributed Optimization based Dynamic Tariff for Congestion Management in Distribution Networks," *IEEE Transactions on Smart Grid*, in press.
4. F. Wang, L. Li, C. Li, Q. Wu*, Y. Cao, B. Zhou, and B. Fang, "Fractal Characteristics Analysis of Blackouts in Interconnected Power Grid," *IEEE Transactions on Power Systems*, in press.
5. C. Li, Y. Zhang, H. Zhang*, Q. Wu, and V. Terzija, "Measurement-Based Transmission Line Parameter Estimation with Adaptive Data Selection Scheme," *IEEE Transactions on Smart Grid*, in press.
6. R. Ghiga, K. Martin, Q. Wu*, and A. H. Nielsen, "Phasor Measurement Unit Test under Interference Conditions," *IEEE Transactions on Power Delivery*, in press.
7. Z. Liu, Q. Wu*, S. Huang, L. Wang, M. Shahidehpour, and Y. Xue, "Optimal Day-ahead Charging Scheduling of Electric Vehicles through an Aggregative Game Model," *IEEE Transactions on Smart Grid*, in press.
8. L. Chen, H. Zhang*, Q. Wu, and V. Terzija, "A Numerical Approach for Hybrid Simulation of Power System Dynamics Considering Extreme Icing Events," *IEEE Transactions on Smart Grid*, in press.
9. S. Huang and Q. Wu*, "Real-Time Congestion Management in Distribution Networks by Flexible Demand Swap," *IEEE Transactions on Smart Grid*, in press.
10. H. Zhao, Q. Wu*, S. Huang, H. Zhang, Y. Liu and Y. Xue, "Hierarchical Control of Thermostatically Controller Loads for Primary Frequency Control," *IEEE Transactions on Smart Grid*, in press.
11. S. Huang and Q. Wu*, "Dynamic Subsidy Method for Congestion Management in Distribution Networks," *IEEE Transactions on Smart Grid*, in press.
12. Z. Liu, Q. Wu*, S. Oren, S. Huang, R. Li, and L. Cheng, "Distribution Locational Marginal Pricing for Optimal Electric Vehicle Charging through Chance Constrained Mixed-Integer Programming," *IEEE Transactions on Smart Grid*, in press.
13. Y. Guo, H. Gao*, and Q. Wu, "A Combined Reliability Model of VSC-HVDC Connected Offshore Wind Farms Considering Wind Speed Correlation," *IEEE Transactions on Sustainable Energy*, Vol. 8, No. 4, pp. 1637-1646, Oct. 2017.
14. H. Zhao, Q. Wu*, S. Huang, M. Shahidehpour, Q. Guo, and H. Sun, "Fatigue Load Sensitivity based Optimal Active Power Dispatch for Wind Farms," *IEEE Transactions on Sustainable Energy*, Vol. 8, No. 3, pp. 1247-1259, Jul. 2017.
15. Y. Qi, Y. Liu* and Q. Wu, "Non-Cooperative Regulation Coordination Based on Game Theory for Wind Farm Clusters during Ramping Events," *Energy*, Vol. 132, pp. 136-146, 2017.

16. H. Zhao, Q. Wu*, J. Wang, Z. Liu, M. Shahidehpour, and Y. Xue, "Combined Active and Reactive Power Control of Wind Farms based on Model Predictive Control," *IEEE Transactions on Energy Conversion*, Vol. 32, No. 3, pp. 1177-1187, 2017.
17. Y. Guo, H. Gao*, and Q. Wu, "A Meteorological Information Mining-Based Wind Speed Model for Adequacy Assessment of Power Systems With Wind Power," *International Journal of Electrical Power and Energy Systems*, Vol. 93, pp. 406-413, Dec. 2017.
18. W. Liu, C. Li, Y. Liu*, and Q. Wu, "Predictive Control of Wind Turbine for Load Reduction during Ramping Events," *International Journal of Electrical Power and Energy Systems*, Vol. 93, pp. 135-145, Dec. 2017.
19. M. P. S. Gryning*, Q. Wu, L. Kocewiak, H. H. Niemann, K. P. H. Andersen, and M. Blanke, "Stability Boundaries for Offshore Wind Park Distributed Voltage Control," *IEEE Transactions on Control Systems Technology*, Vol. 25, No. 4, pp. 1496-1504, Jul. 2017.
20. Y. Wang*, Q. Wu, W. Gong, and M. P. S. Gryning, " H^∞ Robust Current Control for DFIG Based Wind Turbine subject to Grid Voltage Distortions," *IEEE Transactions on Sustainable Energy*, Vol. 8, No. 2, pp. 816-825, Apr. 2017.
21. S. Huang, Q. Wu*, J. Wang, and H. Zhao, "A Sufficient Condition on Convex Relaxation of AC Optimal Power Flow in Distribution Networks," *IEEE Transactions on Power Systems*, Vol. 32, No. 2, pp. 1359-1368, Mar. 2017.
22. S. Huang, Q. Wu*, L. Cheng, Z. Liu, and H. Zhao, "Uncertainty Management of Dynamic Tariff Method for Congestion Management in Distribution Networks," *IEEE Transactions on Power Systems*, Vol. 31, No. 6, pp. 4340-4347, Nov. 2016.
23. H. Zhao, Q. Wu*, Q. Guo, H. Sun, S. Huang, and Y. Xue, "Coordinated Voltage Control of a Wind Farm based on Model Predictive Control," *IEEE Transactions on Sustainable Energy*, Vol. 7, No. 4, pp. 1440-1451, Oct. 2016.
24. T. Niu, Q. Guo*, H. Sun, Q. Wu, B. Zhang, and T. Ding, "Autonomous Voltage Security Region to Prevent Cascading Trip Faults of Wind Turbine Generators," *IEEE Transactions on Sustainable Energy*, Vol. 7, No. 3, pp. 1306-1316, Jul. 2016.
25. S. Huang, Q. Wu*, L. Cheng, and Z. Liu, "Optimal Reconfiguration Based Dynamic Tariff for Congestion Management and Line Loss Reduction in Distribution Networks," *IEEE Transactions on Smart Grid*, Vol. 7, No. 3, pp. 1295-1303, May 2016.
26. M. P. S. Gryning, Q. Wu*, M. Blanke, H. H. Niemann, and K. P. H. Andersen, "Wind Turbine Inverter Robust Loop-Shaping Control subject to Grid Interaction Effects," *IEEE Transactions on Sustainable Energy*, Vol. 7, No. 1, pp. 41-50, Jan. 2016.
27. H. Zhao, Q. Wu*, Q. Guo, H. Sun, and Y. Xue, "Distributed Model Predictive Control of A Wind Farm for Optimal Active Power Control Part II: Implementation with Clustering based Piece-Wise Affine Wind Turbine Model," *IEEE Transactions on Sustainable Energy*, Vol. 6, No. 3, pp. 840-849, July 2015.
28. H. Zhao, Q. Wu*, Q. Guo, H. Sun, and Y. Xue, "Distributed Model Predictive Control of A Wind Farm for Optimal Active Power Control Part I: Clustering based Wind Turbine Model Linearization," *IEEE Transactions on Sustainable Energy*, Vol. 6, No. 3, pp. 831-839, July 2015.
29. S. Huang, Q. Wu*, S. Oren, R. Li, and Z. Liu, "Distribution Locational Marginal Pricing through Quadratic Programming for Congestion Management in Distribution Networks," *IEEE Transactions on Power Systems*, Vol. 30, No. 4, pp. 2170-2178, Jul. 2015.
30. W. Liu, Q. Wu*, F. Wen, and J. Østergaard, "Day-Ahead Congestion Management in Distribution Systems through Household Demand Response and Distribution Congestion Prices," *IEEE Transactions on Smart Grid*, vol. 5, no. 6, pp. 2739-2747, Nov. 2014.

31. R. Li, Q. Wu* and S. Oren, "Closure to Discussion on 'Distribution Locational Marginal Pricing for Optimal Electric Vehicle Charging Management'," *IEEE Transactions on Power Systems*, vol. 29, no. 4, pp. 1867, 2014.
32. H. Zhao, Q. Wu*, C. N. Rasmussen, and M. Blanke, "L1 Adaptive Speed Control of a Small Wind Energy Conversion System for Maximum Power Point Tracking," *IEEE Transactions on Energy Conversion*, vol. 29, no. 3, pp. 576-584, Sept. 2014.
33. R. Li, Q. Wu*, and S. Oren, "Distribution Locational Marginal Pricing for Optimal Electric Vehicle Charging Management," *IEEE Transactions on Power Systems*, No. 1, Vol. 29, pp. 203 – 211, Jan 2014.
34. Y. Ding*, S. Pineda, P. Nyeng, J. Østergaard, E. Larsen, and Q. Wu, "Real-time Market Concept Architecture for EcoGrid EU – A Prototype for European Smart Grids," *IEEE Transactions on Smart Grid*, No. 4, Vol. 4, pp. 2006 – 2016, Dec. 2013.
35. Y. DING*, P. Wang, L. Goel, P. C. Loh, and Q. Wu, "Long Term Reserve Expansion of Power Systems with High Wind Power Penetration using Universal Generating Function Methods," *IEEE Transactions on Power Systems*, Vol. 26, Issue 2, pp. 766-774, May 2011.
36. Q. Wu*, P. Wang, and L. Goel, "DLC of ACL considering IEAR in restructured power systems," *IEEE Transactions on Power Systems*, Vol. 25, Issue 3, pp. 1449-1456, Aug. 2010.
37. Z. Lin*, J. Liu, Q. Wu, and Y. Niu, "Mixed H2/H ∞ Pitch Control of Wind Turbine with a Markovian Jump Model," *International Journal of Control*, in press.
38. W. Wu*, A. Bose, Q. Wu, L. Xie, H. Zhu, A. Sun, and N. Li, "Guest Editorial for Special Issue: Distributed & Autonomous Dispatch and Control for Active Distribution Networks/Microgrids Potential Scheme to Realise Plug & Play of DER," *IET Gener. Transm. Distrib.*, Vol. 11, No. 3, pp. 583-585, 2017.
39. I. Graabak, Q. Wu*, L. Warland, and Z. Liu, "Optimal Planning of the Nordic Transmission System with 100% Electric Vehicle Penetration of passenger cars by 2050," *Energy (IF 4.844)*, Vol. 107, pp. 648-660, 2016.
40. H. Zhao, Q. Wu*, Q. Guo, H. Sun, and Y. Xue, "Optimal Active Power Control of A Wind Farm Equipped with Energy Storage System based on Distributed Model Predictive Control," *IET Gener. Transm. Distrib.*, Vol. 10, No. 3, pp. 669-677, May 2016.
41. A. Korompili, Q. Wu*, and H. Zhao, "Review of VSC HVDC Connection for Offshore Wind Power Integration," *Renewable & Sustainable Energy Reviews (IF 5.901)*, No. 59, pp. 1405-1414, 2016.
42. H. Zhao, Q. Wu*, S. Hu, H. Xu, and C. N. Rasmussen, "Review of Energy Storage System for Wind Power Integration Support," *Applied Energy (IF 5.613)*, no. 137, pp. 545-553, January 2015.
43. H. Zhao, Q. Wu*, I. Margaritis, J. Bech, P. E. Sørensen, and B. Andresen, "Implementation and Validation of IEC Generic Type 1A Wind Turbine Generator Model," *International Transactions on Electrical Energy Systems*, vol. 25, no. 9, pp. 1804-1813, 2015.
44. Y. Ding*, M. Xie, Q. Wu, and J. Østergaard, "Development of Energy and Reserve Pre-dispatch and Re-dispatch Models for Real-time Price Risk and Reliability Assessment," *IET Gener. Transm. Distrib.*, vol. 8, no. 7, pp. 1338-1345, 2014.
45. N. O'Connell, Q. Wu*, J. Østergaard, A. H. Nielsen, S. T. Cha, and Y. Ding, "Day-ahead Tariffs for the Alleviation of Distribution Grid Congestion from Electric Vehicles," *Electric Power Systems Research*, Vol. 92, pp. 106-114, Nov. 2012.
46. L. Goel*, Q. Wu, and P. Wang, "Fuzzy Logic-Based Direct Load Control (DLC) of Air Conditioning Loads (ACL) Considering Nodal Reliability Characteristics in Restructured

- Power Systems," *Electric Power Systems Research*, Vol. 80, No. 1, pp. 98-107, Jan. 2010.
47. L. Goel*, Q. Wu, and P. Wang, "Nodal Price Volatility Reduction and Reliability Enhancement of Restructured Power System Considering Demand-Price Elasticity," *Electric Power Systems Research*, Vol. 78, No. 10, pp. 1655-1663, Oct. 2008.
 48. Y. Li*, Q. Wu, and H. Zhu, "Hierarchical Load Tracking Control of a Grid-connected Solid Oxide Fuel Cell for Maximum Electrical Efficiency Operation," *Energies*, Vol. 8, No. 3, pp. 1896-1916, 2015.
 49. Y. Xue*, J. Wu, D. Xie, K. Li, Y. Zhang, F. Wen, Q. Wu, and G. Yang, "Multi-agents modelling of EV purchase willingness based on questionnaires," *Journal of Modern Power Systems and Clean Energy*, Vol. 3, No. 2, pp. 149-159, 2015.
 50. Z. Liu, Q. Wu*, L. Christensen, A. Rautiainen, and Y. Xue, "Driving pattern analysis of Nordic region based on national travel surveys for electric vehicle integration," *Journal of Modern Power Systems and Clean Energy*, Vol. 3, No. 2, pp. 180-189, 2015.
 51. H. Zhao, Q. Wu*, C. Wang, L. Cheng, and C. Rasmussen, "Fuzzy Logic based Coordinated Control of Battery Energy Storage System and Dispatchable Distributed Generation Units for Microgrid," *Journal of Modern Power Systems and Clean Energy*, Vol. 3, No. 3, pp. 422-428, 2015.
 52. Y. Wang*, Q. Wu, H. Xu, Q. Guo, and H. Sun, "Fast Coordinated Control of DFIG Wind Turbine Generators for Low and High Voltage Ride-Through," *Energies*, No. 7, pp. 4140-4156, 2104.
 53. Z. Liu, Q. Wu*, A. H. Nielsen, and Y. Wang, "Day-Ahead Energy Planning with 100% Electric Vehicle Penetration in the Nordic Region by 2050," *Energies*, No. 3, Vol. 7, pp. 1733-1749, 2014.
 54. R. Sharma, Q. Wu*, S. T. Cha, K. H. Jensen, T. W. Rasmussen, and J. Østergaard, "Power Hardware In The Loop Validation of Fault Ride Through of VSC HVDC Connected Offshore Wind Power Plants," *Journal of Modern Power Systems and Clean Energy*, Vol. 2, No. 1, pp. 23 – 29, Mar 2014.
 55. Y. Ding*, W. Shen, G. Levitin, P. Wang, L. Goel, and Q. Wu, "Economical Evaluation of Large-scale Photovoltaic Systems using Universal Generating Function Techniques," *Journal of Modern Power Systems and Clean Energy*, No. 2, Vol. 1, pp. 167-176, 2013.

Other journal papers

56. K. Luo, W. Shi, Y. Chi, Q. Wu, and W. Wang, "Stability and Accuracy Considerations in the Design and Implementation of Wind Turbine Power Hardware in the Loop Platform," *CSEE Journal of Power and Energy Systems*, Vol. 3., No. 2, pp. 167-175, Jun. 2017.
57. D. Dhua, S. Huang, and Q. Wu, "Optimal Power Flow Modelling and Analysis of Hybrid AC-DC Grids with Offshore Wind Power Plant", *Energy Procedia*, in press.
58. Q. Wu, E. Larsen, K. Heussen, H. Bindner, and P. Douglass, "Remote Offgrid Solutions for Greenland and Denmark: Using Smart Grid Technologies to Ensure Secure, Reliable Energy for Islanded Power Systems," *IEEE Electrification Magazine*, pp. 64-73, Jun. 2017.
59. Y. Xue, Y. Chen, K. Li, F. Wen, Y. Ding, Q. Wu, and G. Yang, "Adaptive ultra-short-term wind power prediction based on risk assessment," *CSEE Journal of Power and Energy Systems*, Vol. 2., No. 3, pp. 59-64, Sept. 2016.
60. A. Hermann, Q. Wu, S. Huang, and A. H. Nielsen, "Convex relaxation of Optimal Power Flow in Distribution Feeders with embedded solar power," *Energy Procedia*, Vol. 100, pp. 43-49, Nov. 2016.

61. S. Huang, Q. Wu, H. Zhao, and Z. Liu, "Geometry of power flows and convex-relaxed power flows in distribution networks with high penetration of renewables," *Energy Procedia*, Vol. 100, pp. 1-7, Nov. 2016.
62. Y. Xue, Y. Chen, J. Zhao, K. Li, X. Liu, Q. Wu, and G. Yang, "A Review on Short-term and Ultra-short-term Wind Power Prediction," *Automation of Electric Power Systems*, Vol. 39, No. 6, pp. 141-150, Mar. 2015 (in Chinese).
63. R. Sharma, Q. Wu*, S. T. Cha, K. H. Jensen, T. W. Rasmussen, and J. Østergaard, "Fault Ride-Through Capability Enhancement of VSC HVDC connected Offshore Wind Power Plants," *Automation of Electric Power Systems*, Vol. 39, No. 3, pp. 14-22, Feb. 2015.
64. W. Liu, Q. Wu, F. Wen, and Y. Xue, "A Market Mechanism for Participation of Electric Vehicles and Dispatchable Loads in Distribution System Congestion Management," *Automation of Electric Power Systems*, Vol. 38, No. 24, pp. 26-33, Dec. 2014 (in Chinese).
65. S. T. Cha, Q. Wu*, H. Zhao, and C. Wang, "Frequency Control for Island Operation of Bornholm Power System," *Energy Procedia*, vol. 61, pp. 1389-1393, 2014.
66. C. Jiang, Y. Xue, J. Huang, Q. Wu, and G. Yang, "Modelling Multi-agent in Emission Market based on Experimental Economics Simulations," *Automation of Electric Power Systems*, Vol. 38, No. 17, pp. 80-86, 2014 (in Chinese).
67. H. Zhao, Q. Wu*, I. Margaritis, and P. Sørensen, "Implementation of IEC Generic Model of Type 1 Wind Turbine Generator in DlgSILENT PowerFactory," *Automation of Electric Power Systems*, Vol. 37, No. 8, pp. 1-8, 2013.
68. Q. Wu*, J. Møller, J. Østergaard, and A. H. Nielsen, "Policies and Initiatives for Carbon Neutrality in Nordic Heating and Transport Systems," *Journal of Energy and Power Engineering*, Vol. 7, pp. 1745-1753, 2013.
69. C. Zhang, Y. Ding, Q. Wu, Q. Wang, and J. Østergaard, "Distribution Network Expansion Planning Based on Multi-objective PSO Algorithm," *Energy and Power Engineering*, Vol. 5, pp. 975 – 979, 2013.
70. Y. Ding, E. Zio, Y. Li, L. Cheng, and Q. Wu, "Definition of Multi-state Weighted k-out-of-n: F System," *International Journal of Performability Engineering*, Vol. 8, No. 2, pp. 217 – 219, March 2012.
71. Y. Ding, J. Østergaard, Q. Wu, P. Sørensen, and P. Meibom, "Towards a European renewable-based energy system enabled by smart grid: status and prospects," *Automation of Electric Power Systems*, Vol. 35, No. 22, pp. 12-17, 2011.
72. Q. Wu*, L. Wang, and H. Cheng, "Determination and analysis of TOU power price based on DSM when load shifting optimized," *Relay*, Vol. 32, No. 3, pp. 10-13, Feb. 2004 (in Chinese).
73. Q. Wu*, L. Wang, and Y. Zou, "Model Research of TOU Power Price based on DSM and MCP," *Demand Side Management*, Vol. 5, No. 1, pp. 24-29, Mar. 2003 (in Chinese).
74. J. Wu, Q. Wu, and W. Yang, "Wavelet Analysis of the Extraction at Fault Time in Power System," *Relay*, Vol. 28, No. 12, pp. 1-3, Dec. 2000 (in Chinese).

Conference papers

75. D. Dhua, S. Huang, and Q. Wu, "Load Flow Analysis of Hybrid AC-DC Power System with Offshore Wind Power," accepted for publication in Proc. ISGT Aisa 2017.
76. Z. A. Jassim, M. Christoffersen, Q. Wu, S. Huang, A. Moreno, G. D. Rosario, and C. Corchero, "Optimal Approach for the Interaction between DSOs and Aggregators to Activate DER Flexibility in the Distribution Grid," in Proc. CIRED 2017.

77. R. Ghiga, Q. Wu, and A. H. Nielsen, "Phasor Model of Full Scale Converter Wind Turbine for Small-Signal Stability Analysis", in Proc. IET RPG 2017.
78. Z. Liu, Q. Wu, S. Huang, and H. Zhao, "Transactive Energy: A Review of State of The Art and Implementation," in Proc. PowerTech 2017.
79. Y. Hao, H. Zhao, and Q. Wu, "Coordinated Control of Multi-Terminal DC Grid for Wind Power Integration," in Proc. IEEE APPEEC 2016.
80. D. Tang, P. Wang, and Q. Wu, "Probabilistic Modeling of Nodal Electric Vehicle Load due to Fast Charging Stations," in Proc. PMAPS 2016.
81. H. Zhao, Q. Wu, S. Huang, and Z. Liu, "Study of Demand as Frequency Controlled Reserve in Nordic Power System," in Proc. IEEE APPEEC 2016.
82. Y. Wang, Q. Wu, and S. Kang, "Sub-Synchronous Interaction Analysis between DFIG based Wind Farm and Series Capacitor Compensated Network," in Proc. IEEE APPEEC 2016.
83. R. Ghiga, Q. Wu, K. Martin, W. El-Khatib, L. Cheng, and A. H. Nielsen, "Steady-State PMU Compliance Test under C37.118.1aTM-2014," in Proc. ISGT Europe 2016.
84. Q. Wu, J. I. B. Solanas, H. Zhao, and L. Kocewiak, "Wind Power Plant Voltage Control Optimization with Embedded Application of Wind Turbines and Statcom," in Proc. ACEPT 2016.
85. T. B. Rasmussen, Q. Wu, and S. Huang, "Real time emulation of dynamic tariff for congestion management in distribution networks," in Proc. ACEPT 2016.
86. R. Lyu, Y. Xue, F. Xue, Q. Wu, G. Yang, H. Zhou, and P. Ju, "The qualitative criterion of transient angle stability," in Proc. APSCOM 2015.
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88. S. Huang, Q. Wu, A. H. Nielsen, H. Zhao and Z. Liu, "Long Term Incentives for Residential Customers Using Dynamic Tariff," in Proc. APPEEC 2015.
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3. Alexander Niels August Hermann (ongoing) Optimal Voltage Control of Distribution Networks with High Penetration of DERs
4. Radu Ghiga (2017) Phasor Measurement Unit Applications for Small Signal Stability Assessment and Improvement of Power Systems
5. Shaojun Huang (2016) Congestion Management of Distribution Networks with High Penetration of Distributed Energy Resources (DERs)
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7. Mikkel Peter Sidoroff Gryning (2015) Offshore Wind Park Control Assessment Methodologies to Assure Robustness and Fault tolerance
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Master student supervision

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14. Hanieh Hajizadeh Askari (2015) Impact of Converter-Based Renewable Generators on Small Signal Stability of Power Systems
15. Jose Ignacio Busca Solanas (2015) Optimal Voltage Control of Wind Power Plants
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17. Konstantinos Diakos (2014) Phasor Measurement Unit (PMU) and Phasor Data Concentrator (PDC) test with Real Time Digital Simulator (RTDS)
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Teaching

1. Computational Electric Energy Systems (2010- now) 5 ECTS points