

Complete Publication list
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Summary

This is a complete list of publications for the author Dr. Lina Bertling Tjernberg (Tjernberg from 2011) (<https://orcid.org/0000-0003-4763-9429>). The publications includes the following sections:

- A papers published in journals,
- B papers published in conferences (and of those in magazines),
- C Review articles, book chapters, course material etc,
- D Other scientific contributions,
- E Other publications and reports,
- F Demos, software, copyrights, popular science contributions etc.

The complete publication list (A-D) includes: 30 journal papers, 111 conference papers, 2 books, 9 book chapters and 3 theses (all at KTH). Most of these publications are available from [IEEE Xplore Digital Library](#) or the [DIVA portal](#). Other publications (D and E) includes contributions to reports resulting from several working groups both national (e.g. IVA, [SOU 2014:84](#)) and international (e.g. IEA,IEEE, Cigré). The last section includes popular science articles.

An overview of academic publications are provided at [ResearchGate](#) or [Google Scholar](#)
 Citation indices in Google Scholar updated on 2024-04-22 with direct link of:

https://scholar.google.com/citations?user=avw6_okAAAJ

	All	Since 2019
Citations	7697	2888
h-index	36	25
i10-index	95	46

List of abbreviations:

- CIRED - International Conference on Electricity Distribution.
- CIGRE- global community committed to the collaborative development and sharing of power system expertise.
- IEA - International Energy Agency.
- IEEE - Institute of Electrical and Electronics Engineers.
- ISGT – Innovative Smart Grid Technology Conference (part of IEEE)
- IVA – The Royal Academy of Science
- PES GM – Power & Energy Society General Meeting (part of IEEE)
- PMAPS - International Conference on Probabilistic Methods Applied to Power Systems.
- PSCC - Power Systems Computation Conference.
- SOU – statens offentliga utredningar (governments official investigations).

A Published in journals (or accepted to be published)

1. F. Chen a , J. Yan, Y. Liu , Y. Yan, L. Bertling Tjernberg, [A novel meta-learning approach for few-shot short-term wind power forecasting](#), Applied Energy, Elsevier, [Volume 362](#), 15 May 2024, 122838 <https://doi.org/10.1016/j.apenergy.2024.122838>
2. Y. Bekele, G. Biru, L. Bertling Tjernberg, [On the design and optimization of distributed energy resources for sustainable grid-integrated microgrid in Ethiopia](#), International

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<https://doi.org/10.1016/j.ijhydene.2023.04.192>.
3. Borenius, S.; Gopalakrishnan, P.; Bertling Tjernberg, L.; Kantola, R. [Expert-Guided Security Risk Assessment of Evolving Power Grids](#). *Energies* 2022, 15, 3237.
 4. Meysam, el alt. [A deep learning-based evolutionary model for short-term wind speed forecasting: A case study of the Lillgrund offshore wind farm](#), *Energy conversion and Management*, Elsevier, 236 (2021), 114002.
 5. M. N. Meysam, el alt. [Wind Turbine Power output Prediction Using a New Hybrid Neuro-Evolutionary Method](#), *Energy*, Elsevier , 229 (2021), 120617.
 6. A. Heydari el alt., [A Combined Fuzzy GMDH Neural Network and Grey Wolf Optimization Application for Wind Turbine Power Production Forecasting Considering SCADA Data](#), *Energies* 2021, 14, 3459. <https://doi.org/10.3390/en14123459>
 7. Y. Cui, P. Bangalore and L. Bertling Tjernberg, [A fault detection framework using RNNs for condition monitoring of wind turbines](#), *Wind Energy*, Wiley, 2021, 1-14. DOI: 10.1002/we.2628 .
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 9. Mazidi P., Du M., Bertling Tjernberg L., Sanz-Bobi M, [Health Condition Model for Wind Turbine Monitoring through Neural Networks and Proportional Hazard Models](#), Institution of Mechanical Engineers, *Journal of Risk and Reliability*, Vol. 231(5), Pages: 481–494, 2017.
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 11. M. Du, L. Bertling Tjernberg, S. Ma, Q. He, L. Cheng, J. Guo, [A SOM based Anomaly Detection Method for Wind Turbines Health Management through SCADA Data](#), *International Journal of Prognostics and Health Management*, Vol. 7, Pages: 1-13, 2016.
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 13. S Bahramirad, A Khodaei, J Matevson, Z Li, L Bertling, EA Passo, M. Fotuhi-Firuzabad, [Guest Editorial Special Section on Asset Management in Smart Grid](#), *IEEE Transactions on Smart Grid*, Vol. 6, No. 2., March 2015.
 14. Bangalore P., Bertling Tjernberg L, [An artificial neural network approach for early fault detection of gearbox bearings](#), *IEEE Transactions on Smart Grid*, Vol. 6, No. 2., March 2015.
 15. Salih S. N., Chen P., Carlson O., Bertling Tjernberg L., [Optimizing wind power hosting capacity of a distribution system using costs benefit analysis](#), *IEEE Transactions on Power Delivery*, Vol. 29, No. 3, June 2014.
 16. Wang F., Tuan L. A., Tjernberg Bertling L, Mannikoff A., Bergman A., [A New Approach for Benefit Evaluation of Multi-Terminal VSC-HVDC Using A Proposed Mixed AC/DC Optimal Power Flow](#), *IEEE Transactions on Power Delivery*, Vol. 29, No. 1, Feb. 2014.
 17. Papaemmanouil A., Bertling Tjernberg L., Tuan L. A., Andersson G., [Improved cost-benefit analysis for market-based transmission planning, a European perspective](#), *Journal on Energy Policy*, ISSN 0301-4215, Aug. 2013. <https://doi.org/10.1016/j.enpol.2013.08.066>
 18. Besnard F., Fischer K., Bertling Tjernberg L., [A Model for the Optimization of the Maintenance Support Organization for Offshore Wind Farms](#), *IEEE Transactions on Sustainable Energy*, Vol. 4, No. 2, pp. 443-450, April 2013.
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- 3, pp. 1457-1468, Sept. 2012.
21. Fischer K., Besnard F., Bertling L.: [Reliability-Centred Maintenance for Wind Turbines Based on Statistical Analysis and Practical Experience](#). IEEE Transactions on Energy Conversion, Vol. 27, No. 1, pp. 184 – 195, March 2012.
 22. Besnard, F., Bertling L.: [An Approach for Condition-Based Maintenance Optimization Applied to Wind Turbine Blades](#). IEEE Transactions on Sustainable Energy, Vol.1 No. 2, pp. 77 - 83, July 2010.
 23. Wallnerström, C.; Bertling, L.; Le, T.: [Risk and reliability assessment for electrical distribution systems and impacts of regulations with examples from Sweden](#). International Journal of Systems Assurance Engineering and Management, Dec. 2010.
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B Conference paper with referee-system (full paper review 2-3 reviewers)

1. T. Elmfeldt, Y. Arafat, L. Bertling Tjernberg, A. Lugnet, and G. Nyström, [Sector-coupling Green Hydrogen to Electrify Steel Production - A Case Study at Ovako Hofors](#), Accepted to be in proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Auckland, New Zealand, June 2024.
2. T. Elmfeldt, L. Bertling Tjernberg, and C. Carlsund Levin, [Pumped Storage Hydroelectricity for a Sustainable Electricity Transition – With a Case Study of Juktan Power Station](#), Accepted to be in proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Auckland, New Zealand, June 2024.
3. J. Kristiansen Nøland , M. Hjelmeland , L. Bertling Tjernberg , and C. Hartmann, The Race to Realize Small Modular Reactors, IEEE power & energy magazine, Accepted to be published , May 2024
4. A. Dogra, L. Bertling Tjernberg, [Potential Impact of Electric Vehicles Connected to the Grid - A Pre-Study for the Swedish Power System](#), In proceedings of IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe) 2023, Grenoble.
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8. L. Tunelid, M. Peri, S. Sathyamoorthy, H. Shafique, A. Rozas , L. Bertling Tjernberg, [Simplistic Revenue Based BESS Sizing Tool Developed in Python Using Historical Grid Data](#), In proceedings of IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), Novi Sad, Serbia October 2022. [10.1109/ISGT-Europe54678.2022.9960580](#)
9. Y. Bekele, G. Biru, L. Bertling Tjernberg, [Sustainable Off-grid Systems with Integration of Renewable Generation and Hydrogen-Fuel Cell](#), In proceedings of IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), Novi Sad, Serbia October 2022. [10.1109/ISGT-Europe54678.2022.9960622](#)
10. E. Holmgren, D. Haldar, L. Bertling Tjernberg, A. Johansson, [More Electric Aircraft \(MEA\) - Scaling Aspects and Weight Impact](#), 33RD Congress of the International Council of the Aeronautical Sciences (ICAS), Stockholm, Sweden, September 2022.
11. A. Johansson , M. Yildiz , L. Bertling Tjernberg, [More Electric Airplane: case study Stockholm – Copenhagen](#), 33RD Congress of the International Council of the Aeronautical Sciences (ICAS), Stockholm, Sweden, September 2022.
12. Y. Cui, P. Bangalore, and L. Bertling Tjernberg, [Fault Diagnostics of Power Transformers Using Autoencoders and Gated Recurrent Units with Applications for Sensor Failures](#), In proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Manchester, UK, June 2022.
13. H. Shafique, D.-E. Archer , R. Eriksson, L. B. Tjernberg, [Real-time Operation Model for Energy Management System of Battery Energy Storage System - Case Study: The School of Sintorp](#), In proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Manchester, UK, June 2022.
14. J. Eduardo Urrea Cabus, Y. Cui, P. Bangalore, and L. Bertling Tjernberg, [An Anomaly Detection Approach Based on Autoencoders for Condition Monitoring of Wind Turbines](#), In proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Manchester, UK, June 2022.
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21. Q. Huang, Y. Cui, L. Bertling Tjernberg, P. Bangalore, [Wind Turbine Health Assessment Framework Based on Power Analysis Using Machine Learning Method](#), In proceedings of IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), Bucharest, Romania, September-October 2019.
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31. Y. Arafat, L. Bertling Tjernberg and P. A. Gustafsson, "[Field test on multiple Smart Meter switching to study the effect on power quality at customers level](#)," in IEEE PowerTech, Eindhoven, June-July 2015.
32. Y. Arafat, L. Bertling Tjernberg and P. A. Gustafsson, [Possibilities of demand side management with Smart Meters](#), in 2015 CIRED Lyon, June 2015.
33. Arafat Y., Bertling Tjernberg L., Gustafsson P.-A., [Experience from Real Tests on Multiple Smart Meter Switching](#), In Proceedings of IEEE PES ISGT Europe 2014, October 2014, Istanbul.
34. Steen D., Balram P., Le. T., Reichenberg L., Bertling Tjernberg L., [Impact assessment of wind power and demand side management on day-ahead market price](#), In Proceedings of IEEE PES ISGT Europe 2014, October 2014, Istanbul.
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38. Pinares G., Le Anh T., Bertling Tjernberg L., Breitholtz C., [Analysis of the dc Dynamics of VSC-HVDC Systems Using a Frequency Domain Approach](#), In proceedings of IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC), Hong Kong, December 2013.
39. Balram P., Le T., Bertling L., [Modeling of Regulating Power Market Based on AC Optimal Power Flow Considering Losses and Electric Vehicles](#), In Proceedings of IEEE PES ISGT Asia, Bangalore, November 2013.
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48. Balram P., Tuan L. A., Bertling Tjernberg L., [Stochastic Programming Based Model of An Electricity Retailer Considering Uncertainty Associated with Electric Vehicles Charging](#), In Proceedings of 10th International Conference on the European Energy Market EEM13, Stockholm, May. 2013.
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