

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: 31 journal papers, 113 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) and internal reports. 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 2024-06-29 with direct link of: https://scholar.google.com/citations?user=avw6_okAAAJ

	All	Since 2019
Citations	7778	2991
h-index	36	25
i10-index	96	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. G. Lal Rajora, M. A. Sanz-Bobi, L. Bertling Tjernberg, J. Eduardo Urrea Cabus, [A review of asset management using artificial intelligence-based machine learning models: Applications for the electric power and energy system](#), IET Generation, Transmission, and Distribution, June 2024. <https://doi.org/10.1049/gtd2.13183>

2. 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>
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4. Borenius, S.; Gopalakrishnan, P.; Bertling Tjernberg, L.; Kantola, R. [Expert-Guided Security Risk Assessment of Evolving Power Grids](#). Energies 2022, 15, 3237.
5. 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.
6. M. N. Meysam, el alt. [Wind Turbine Power output Prediction Using a New Hybrid Neuro-Evolutionary Method](#), Energy, Elsevier , 229 (2021), 120617.
7. 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>
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9. Y. Li *et al.*, [Investigation on liquid cold plate thermal management system with heat pipes for LiFePO₄ battery pack in electric vehicles](#), *Applied Thermal Engineering*, vol. 185, 2021.
10. 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.
11. Mazidi P., Bertling Tjernberg L., Sanz-Bobi M., [Wind Turbine Prognostics and Maintenance Management based on a Hybrid Approach of Neural Networks and Proportional Hazards Model](#), Institution of Mechanical Engineers, Journal of Risk and Reliability, Vol. 231(2), Pages: 121-129, 2017
12. 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.
13. Shafiee M., Patriksson M., Strömberg A. B., Bertling L., [Optimal Redundancy and Maintenance Strategy Decisions for Offshore Wind Power Converters](#) , International Journal of Reliability, Quality, and Safety Engineering, Vol. 22, Issue 03, June 2015.
14. 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.
15. 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.
16. 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.
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23. 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.
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B Conference paper, and magazines, with referee-system (full paper review 2-3 reviewers)

1. G. Lal Rajora, L. Bertling Tjernberg, M. A. Sanz-Bobi, Advancements and Challenges in Asset Management for HVDC Cable Systems: A Machine Learning Perspective, Proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Auckland, New Zealand, June 2024.
2. 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](#), Proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Auckland, New Zealand, June 2024.
3. 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](#), Proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Auckland, New Zealand, June 2024.
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11. 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](#)
12. 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.
13. 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.
14. 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.
15. 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 Sinttorp](#), In proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Manchester, UK, June 2022.
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 31. S. Babu, J. H. Jurgensen, C. J. Wallnerstrom, P. Hilber, L. B. Tjernberg, "[Analyses of Smart Grid Technologies and Solutions from a System Perspective](#)," in IEEE PES ISGT ASIA, 2015, Bangkok, November 2015.
 32. Y. Arafat, L. Bertling Tjernberg and P. A.. Gustafsson, "[Experience from real tests on multiple smart meter switching](#)," in IEEE PES ISGT ASIA, 2015, Bangkok, November 2015.
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 35. 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.
 36. 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.
 37. Bangalore P., Bertling Tjernberg L., [Self Evolving Neural Network Based Algorithm for Fault Prognosis in Wind Turbines: A Case Study](#), PMAPS 2014, Durham, July 2014.
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 44. Shafiee M., Patriksson M., Strömberg A. B., Bertling L., [A Redundancy Optimization Model Applied to Offshore Wind Turbine Power Converters](#), In Proceedings of IEEE PowerTech, Grenoble, June 2013.
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 47. Steen D., Tuan L., Carlson O., Bertling L., [Evaluating the Customers' Benefits of Hourly Pricing Based on Day-Ahead Spot Market](#), In Proceedings of CIRED, Stockholm, June 2013.
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54. Bangalore P., Bertling L., [Extension of Test System for Distribution System Reliability Analysis with Integration of Electric Vehicles in the Distribution System](#), In Proceedings of IEEE PES ISGT EUROPE 2011, Manchester, December 2011.
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62. Fischer, K.; Besnard, F.; Bertling, L.: [A Limited-Scope Reliability-Centred Maintenance Analysis of Wind Turbines. In Scientific Proceedings of the European Wind Energy Conference & Exhibition \(EWEA\) 2011, Brussels, March 2011.](#)
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