

**Complete Publication list**  
**Dr. Lina Bertling Tjernberg**  
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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,
- 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, 108 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 2024-03-15 with direct link of: [https://scholar.google.com/citations?user=avw6\\_okAAAJ](https://scholar.google.com/citations?user=avw6_okAAAJ)

	All	Since 2019
Citations	7643	2840
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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  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.
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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.
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## **B Conference paper with referee-system (full paper review 2-3 reviewers)**

1. 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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4. L. Bertling Tjernberg, S. Uhrig, [Lifetime Extension Options for Electrical Equipment](#), In proceedings of the CIGRE 2023, Rome, June 2023.
5. 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](#)
6. 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](#)
7. E. Holmgren, D. Haldar, L. Bertling Tjernberg, A. Johansson, [More Electric Aircraft \(MEA\) - Scaling Aspects and Weight Impact](#), 33<sup>RD</sup> Congress of the International Council of the Aeronautical Sciences (ICAS), Stockholm, Sweden, September 2022.

8. A. Johansson , M. Yildiz , L. Bertling Tjernberg, [More Electric Airplane: case study Stockholm – Copenhagen](#), 33<sup>RD</sup> Congress of the International Council of the Aeronautical Sciences (ICAS), Stockholm, Sweden, September 2022.
9. 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.
10. 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.
11. 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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15. M. Neshat, M. Majidi Nezhad, E. Abbasnejad, D. Groppi, A. Heydari, L. Bertling Tjernberg, D. Astiaso Garcia, B. Alexander, M. Wagner [Hybrid Neuro-Evolutionary Method for Predicting Wind Turbine Power Output](#), 4<sup>th</sup> South East European Sustainable Development of Energy, Water and Environment Systems, June-July, Sarajevo 2020. (Preprint April 2020).
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17. M. Majidi Nezhad, A. Heydari, E. Pirshayan, D. Groppi, F. Cumo, O. De Santoli, L. Bertling Tjernberg and D. Astiaso Garcia. A novel forecasting model for wind source assessment using Sentinel 1 images and machine learning method: a case study Favignana island. 12th International Conference on Sustainable Energy & Environmental Protection “SEEP 2019”, The University of Sharjah, November 18-21, 2019.
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  32. 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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  45. 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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