

List of Publications

David Schlipf

February 21, 2025

Dissertation

- [1] D. Schlipf. “Lidar-Assisted Control Concepts for Wind Turbines”. PhD thesis. University of Stuttgart, 2015. DOI: [10.18419/opus-8796](https://doi.org/10.18419/opus-8796).

Book Chapters

- [1] J.-W. Van Wingerden, D. Schlipf, and P. Gebräad. “Long-term Research Challenges in Wind Energy - A Research Agenda by the European Academy of Wind Energy”. In: ed. by G. van Kuik and J. Peinke. Springer International Publishing, Sept. 2016. Chap. Control, pp. 27–33. ISBN: 978-3-319-46919-5. DOI: [10.1007/978-3-319-46919-5](https://doi.org/10.1007/978-3-319-46919-5).

Publications in Journals

- [26] F. Guo, Z. Gao, and D. Schlipf. “TorqTwin—An open-source reference multibody modeling framework for wind turbine structural dynamics”. In: *Renewable Energy* 235 (2024), p. 121268. ISSN: 0960-1481. DOI: [10.1016/j.renene.2024.121268](https://doi.org/10.1016/j.renene.2024.121268).
- [25] W. Fu, F. Guo, D. Schlipf, and A. Peña. “Feedforward pitch control for a 15 MW wind turbine using a spinner-mounted single-beam lidar”. In: *Wind Energy Science* 8.12 (2023), pp. 1893–1907. DOI: [10.5194/wes-8-1893-2023](https://doi.org/10.5194/wes-8-1893-2023).
- [24] F. Guo and D. Schlipf. “Assessing lidar-assisted feedforward and multivariable feedback controls for large floating wind turbines”. In: *Wind Energy Science* 8.8 (2023), pp. 1299–1317. DOI: [10.5194/wes-8-1299-2023](https://doi.org/10.5194/wes-8-1299-2023).
- [23] F. Guo, D. Schlipf, and P. W. Cheng. “Evaluation of lidar-assisted wind turbine control under various turbulence characteristics”. In: *Wind Energy Science* 8.2 (2023), pp. 149–171. DOI: [10.5194/wes-8-149-2023](https://doi.org/10.5194/wes-8-149-2023).
- [22] F. Guo, J. Mann, A. Peña, D. Schlipf, and P. W. Cheng. “The space-time structure of turbulence for lidar-assisted wind turbine control”. In: *Renewable Energy* 195 (2022), pp. 293–310. DOI: [10.1016/j.renene.2022.05.133](https://doi.org/10.1016/j.renene.2022.05.133).
- [21] Y. Chen, F. Guo, D. Schlipf, and P. W. Cheng. “Four-dimensional wind field generation for the aeroelastic simulation of wind turbines with lidars”. In: *Wind Energy Science* 7.2 (Mar. 2022), pp. 539–558. DOI: [10.5194/wes-7-539-2022](https://doi.org/10.5194/wes-7-539-2022).
- [20] Y. Chen, D. Schlipf, and P. W. Cheng. “Parameterization of wind evolution using lidar”. In: *Wind Energy Science* 6.1 (Jan. 2021), pp. 61–91. DOI: [10.5194/wes-6-61-2021](https://doi.org/10.5194/wes-6-61-2021).
- [19] F. Guo and D. Schlipf. “A Spectral Model of Grid Frequency for Assessing the Impact of Inertia Response on Wind Turbine Dynamics”. In: *Energies* 14.9 (Apr. 2021). DOI: [10.3390/en14092492](https://doi.org/10.3390/en14092492).
- [18] F. Lemmer, W. Yu, D. Schlipf, and P. W. Cheng. “Robust gain scheduling baseline controller for floating offshore wind turbines”. In: *Wind Energy* 23.1 (Jan. 2020), pp. 17–30. DOI: [10.1002/we.2408](https://doi.org/10.1002/we.2408).
- [17] P. A. Fleming, A. Peiffer, and D. Schlipf. “Wind turbine controller to mitigate structural loads on a floating wind turbine platform”. In: *Journal of Offshore Mechanics and Arctic Engineering* 141.6 (Mar. 2019). DOI: [10.1115/1.4042938](https://doi.org/10.1115/1.4042938).

- [16] I. Würth, L. Valdecabres, E. Simon, C. Möhrlen, B. Uzunoğlu, C. Gilbert, G. Giebel, D. Schlipf, and A. Kaifel. “Minute-scale forecasting of wind power results from the collaborative workshop of IEA wind task 32 and 36”. In: *Energies* 12.4 (Feb. 2019), p. 712. DOI: [10.3390/en12040712](https://doi.org/10.3390/en12040712).
- [15] J. Annoni, P. Fleming, A. Scholbrock, J. Roadman, S. Dana, C. Adcock, F. Porte-Agel, S. Raach, F. Haizmann, and D. Schlipf. “Analysis of control-oriented wake modeling tools using lidar field results”. In: *Wind Energy Science* 3.2 (Nov. 2018), pp. 819–831. DOI: [10.5194/wes-3-819-2018](https://doi.org/10.5194/wes-3-819-2018).
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- [57] A. Garcia-Sagrado, D. Schlipf, S. P. Brovia, J. Burstein, and T. Yoshinaga. “Impact of motions on floating wind turbine power production”. In: *Journal of Physics: Conference Series*. The Science of Making Torque from Wind (TORQUE 2024). May 2024. DOI: [10.1088/1742-6596/2767/6/062034](https://doi.org/10.1088/1742-6596/2767/6/062034)
- [56] F. Guo, D. Schlipf, F. Lemmer, S. Raach, U. Özinan, R. Adam, and T. Choynet. “The performance of two control strategies for floating wind turbines: lidar-assisted feedforward and multi-variable feedback”. In: *Journal of Physics: Conference Series*. Vol. 2626. 1. EERA DeepWind conference 2023. Oct. 2023, p. 012005. DOI: [10.1088/1742-6596/2626/1/012005](https://doi.org/10.1088/1742-6596/2626/1/012005)
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