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Advances in Wind Farm Layout Optimization

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Message from the Guest Editors

Wind Farm Layout Optimization is a vivid field of research dealing with the surprisingly difficult question of how to optimally arrange a set of wind turbines inside a local area (wind farm). In mathematics, this problem is typically seen as a constraint optimization (maximization or minimization) task. Approaches to solving the problem are usually classified according to a) the wake model used, b) the class of optimization approaches (gradient-based approaches and gradient-free algorithms), or c) the target function class. The multitude of approaches makes fair comparisons difficult.

This Special Issue aims at providing original research in WFLO contributions and having them as comparable as possible. Authors are invited (but not obligated) to use the free software package “wflo”, available for the software R from the CRAN repository (see <https://CRAN.R-project.org/package=wflo>). wflo provides a quality data set as well as a standardized workflow and tool chain for WFLO researchers to focus on their actual contribution: the optimization approach. It also serves as a unified benchmark which allows for comparison of approaches across the entire WFLO research branch.



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Special Issue



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Message from the Editor-in-Chief

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