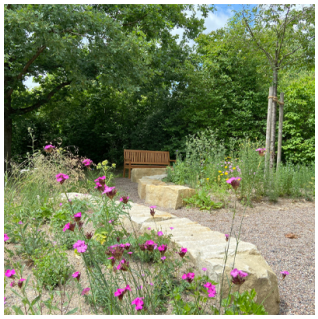
master thesis, bachelor thesis, project thesis, internshiop

AI-supported acquisition of material quantities of wind turbines

Environmentally friendly recycling of the materials used in (older) wind turbines requires (at least approximate) knowledge of the quantities used. In practice, however, material quantities are often unknown, especially to dismantling and recycling companies, and the corresponding data records are very incomplete, which makes recycling planning more difficult. A complete database of all component and material weights does not yet exist. The different nature of all unstructured data sources must be taken into account when collecting data. This makes data acquisition and consolidation necessary, which is very error-prone and time-consuming.



Your tasks

In your thesis, you will therefore develop a model for more efficient data collection and maintenance. This includes examining existing and integrating new data sources. With the completion of the database, better forecasts for missing weights and quantities of any type of plant are to be created. Another focus is on the use of AI technologies for data collection. This includes both the identification of relevant data sources and the automatic collection and classification of relevant data. A basic database is provided.

Your profile

You are studying one of the following subjects:

- Industrial engineering
- Business informatics
- Production and Logistics
- or comparable

You are interested in data analytics, operations research, simulation / optimization and wind energy. You also have (initial) knowledge of programming and ideally the implementation of AI applications.

Good written and spoken German langauge is essential for the job.

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Die Bewerbung muss Anschreiben, Lebenslauf sowie Prüfungsleistungen des Studiums / Zeugnisse enthalten.

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