Technische Universität Braunschweig

KTH VETENSKAP OCH KONST

INSTITUT FÜR AKUSTIK

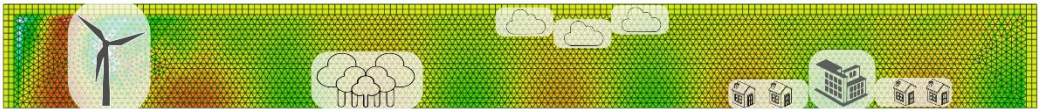
International Research Opportunity for Master's Students

Simulation Codes for Outdoor Noise Propagation

We welcome motivated master's students to participate in an excellent research opportunity focused on noise propagation. This project addresses the issue of noise pollution in areas close to industrial sites, wind parks, and highways, considering specific atmospheric conditions. Collaborating closely with researchers from KTH Stockholm, Sweden, we are dedicated to advancing computational methods for modeling outdoor noise propagation—a crucial step in mitigating noise pollution.

Your primary responsibility in this project is to perform an in-depth evaluation and comparison of the computational methodologies developed by our research groups. This undertaking involves an overview of computational atmospheric acoustics in general, primarily focused on normal mode and parabolic equation solvers, performing benchmark test scenarios, model setup, postprocessing, and evaluation.

By joining our team, you'll have the opportunity to engage in an international network of scholars. Within the framework of the Erasmus Programme, you will have the possibility to spend half your research time in Stockholm, Sweden. If you are a dedicated master's student committed to contributing meaningfully to noise pollution reduction through advanced computational research, we invite you to embrace this challenge.



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