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Coupled Numerical
and Experimental Models
in Structural Engineering

26th - 28th April 2017
Weimar, Germany

Scope & Conference Topics

Nowadays problems of Structural Engineering require not only the consideration of single models, but rather a coupled combination of partial models. In this case it is extremely important to understand the influence of different partial models on the final coupled model. Therefore, the scientific goal of the Research Training Group 1462 is to propose a methodological basis for estimation of quality of the coupled global model depending on partial models and input parameters.

Behind the main research areas described by general terms like stochastic, adaptive, inverse and meta modelling, the following topics are of particular interest:

Model abstraction in Theory and Practice

conceptual and hybrid modelling
mathematical and physical models

Coupling of Models

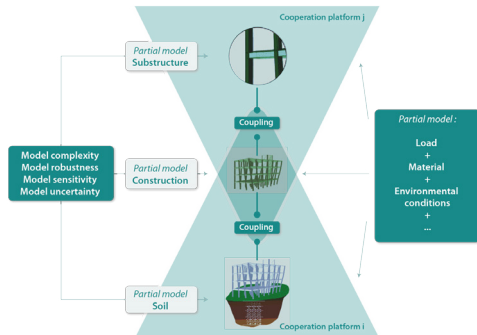
methods and techniques
assessment

Design of Experiments

virtual experiments
structural laboratory tests
structural monitoring

V & V of Engineering Models

selection
sensitivity
reliability



Location

Location & Cultural Programme

Weimar is well known because of its large cultural heritage. The city was a focal point of the German Enlightenment and home of the leading characters of the literary genre of Weimar Classicism, the writers Johann Wolfgang von Goethe and Friedrich Schiller. Different cultural activities will be organized about the history of Weimar and the Bauhaus-Universität Weimar.

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