

# Forecast Engineering: From Past Design to Future Decision

Graduate Courses for Structural Engineering Application 2015 & 2016

Planning of a civil engineering structure is based on static calculations today as well as in the past. With the development of construction methods and new usage requirements, the consideration of uncertainties in model quality is gaining more and more importance. In addition to the traditional force-based approaches, the experience and observations on the deformation behavior of components or the entire structure under different conditions of influence enable the introduction of novel detection and evaluation criteria.

The proceedings at hand are the result from the Bauhaus Summer School Course: Forecast Engineering held at the Bauhaus-Universität Weimar, 2015 & 2016. It summarizes the results of the conducted project work, provides the abstracts of the contributions by the participants, as well as impressions from the accompanying programmed and organized cultural activities of the DAAD supported Summer School.

The special character of the summer school course lies in the combination of fundamental disciplines of civil engineering with applied research projects in the areas of steel and reinforced concrete structures, earthquake and wind engineering as well as in building informatics and their combination with mathematical methods and modern tools of visualization.



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