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Proceedings

12th International Probabilistic Workshop November 4th-5th 2014

The proceedings at hand are the result from the 12th International Probabilistic Workshop held at the Bauhaus-Universität Weimar, 2014. It comprises a collection of articles devoted to future oriented fields of stochastic theory, statistics and optimization both in applied sciences and theory.

Among the covered topics and techniques applied are: Risk analysis, robust topology optimization, the quantification of uncertainties, sensitivity analysis, reliability methods, model quality assessment, design of experiments and surrogate modeling. The applications comprise fields of structural analysis, material science, geosciences, natural hazard and electrical engineering.

The authors are both, well experienced specialists and young researchers, from more than 12 countries worldwide who share their deep interest in modern probability theory and stochastic simulation techniques.

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