

INTERNATIONAL JOURNAL FOR

Simulation and Multidisciplinary Design Optimization


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Special issue on Uncertainty-Based Design Optimization

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CALL FOR PAPERS

A Special Issue of *International Journal for Simulation and Multidisciplinary Design Optimization* on 'Uncertainty-Based Design Optimization'

Background

Uncertainty widely exists in inherent characteristics or external environment of practical engineering problems. The comprehensive influence of uncertainty on products has already been one of the most significant evaluation criteria to better guide the subsequent R&D design. Thus, the uncertainty-based design optimization (UBDO) will become an inexorable trend and main attention in the fields of academic study and engineering applications.

Aim and Scope of the Themed Issue

We sincerely hope that this special issue can enrich our readers and inspire researchers with regard to the seemingly common but actually important problems of UBDO.

Potential topics include, but are not limited to:

- uncertainty modeling in reliability engineering;
- reliability analysis of structures;
- uncertainty-based multidisciplinary design optimization
- uncertainty quantification and uncertainty propagation;
- model verification and validation;
- information and uncertainty;
- decisions and expert systems with uncertainty.

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