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Sensitivity Analysis and Decision Making

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Message from the Guest Editors

This Special Issue is devoted to advances in research on sensitivity analysis methods and their interdisciplinary applications. Via sensitivity analyses, various sources of uncertainty in a mathematical model are studied in terms of how they contribute to the model's overall uncertainty. The model is analyzed using specific values for inputs, and the space of uncertain inputs may be explored using many mathematical approaches. The complexity mathematical approaches and the interpretation of results provide great possibilities for the use of sensitivity analysis variance-based methods. including regression. techniques, distribution-based methods, entropy, fuzzy sets, and many other methods. There are numerous application areas in all disciplines of science where mathematical models are used, including computer science. biology, medicine, physics, engineering, economics... One of the key applications of sensitivity analysis is in the utilization of models by managers and decision-makers. This Special Issue welcomes articles that address the challenges and opportunities of sensitivity analysis in all its facets.











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Message from the Editor-in-Chief

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