

Uncertainty and Sensitivity Analysis in Modeling and Simulation

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Abstract: During the 1980s and 1990s, many nuclear agencies worldwide put substantial resources into projects to assess environmental impacts of nuclear fuel waste disposal. Computers were cheap enough to permit large simulation experiments using models with many more parameters than handled before. Attempts to understand the characteristics of these complex models necessitated new developments in statistical techniques for uncertainty analysis and parameter sensitivity analysis. These methods are still being developed and are now being applied to the analysis of other complex systems, including flood modelling, chemical transport modelling among others. This talk provides an introduction to uncertainty and sensitivity analysis as well as an overview of some recent developments in the field.

EVERYONE IS WELCOME!