Sensitivity analysis and beyond – a workshop by Andrea Saltelli

Andrea Saltelli has worked on physical chemistry, environmental sciences, applied statistics, impact assessment and science for policy. His main disciplinary focus is on sensitivity analysis of model output, a discipline where statistical tools are used to interpret the output from mathematical or computational models, and on sensitivity auditing, an extension of sensitivity analysis to the entire evidence-generating process in a policy context. At present he is in at the European Centre for Governance in Complexity, a joint undertaking of the Centre for the Study of the Sciences and the Humanities (SVT) - University of Bergen (UIB), and of the Institut de Ciència i Tecnologia Ambientals (ICTA) -Universitat Autonoma de Barcelona (UAB). The ECGC is located in the UAB campus in Barcelona. See http://www.andreasaltelli.eu for an extended curriculum vitae.

The content of the one day workshop scheduled on June 2nd at DTU Chemical Engineering premises includes the following:

Sensitivity analysis and beyond
Concepts of uncertainty and sensitivity analysis
Why UA and SA are crucial for modelling
ANOVA decompositions
Variance based measures
Quasi-random numbers
Estimators for variance based measures
From sensitivity analysis to sensitivity auditing

Online reading:
Saltelli, A., Ratto, M., Andres, T., Campolongo, F., Cariboni, J., Gatelli, D. Saisana, M., Tarantola, S., 2008, Global Sensitivity Analysis. The Primer, John Wiley & Sons publishers.

Saltelli, A., Funtowicz, S., 2014, When all models are wrong: More stringent quality criteria are needed for models used at the science-policy interface, Issues in Science and Technology, Winter 2014, 79-85.
(Here at the journal's site).

Registration for the workshop: Workhop is free but registration is mandatory. Please send an email to Eva Mikkelsen at evmi@kt.dtu.dk to confirm your registration.