

10th Eawag Summer School 2018

Environmental Systems Analysis

Tutors Prof. Dr. P. Reichert, Dr. C. Albert, A. Scheidegger, Eawag, Dübendorf and ETH Zürich, Switzerland, Prof. Dr. Dmitri Kavetski, University of Adelaide, Adelaide, Australia

Objectives The objectives of the summer school are to

- provide an overview of systems analytical techniques relevant to model-based data analysis in the environmental sciences;
- get practice in applying these techniques with the statistical and graphics software package R (www.r-project.org) and selected more specific data analysis programs;
- get advice and do first steps in analyzing the data set of the participants;
- learn from the approaches chosen by the other participants for analyzing their data.

Content

- Models in the Environmental Sciences: Importance of models, causes of uncertainty in model predictions, description of uncertainty, mathematical representation of models.
- Identification of Models: Construction of models, sensitivity analysis and Bayesian inference
- Model Predictions: Estimation of the uncertainty of model predictions in the Bayesian framework.

Duration June (3) 4 - 8, 2018, Eawag Dübendorf, Switzerland

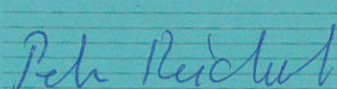
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Timothy Praditia

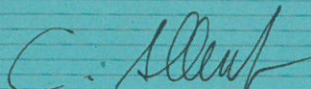
successfully participated in the course.

This course is equivalent to 2 credit points of the European Credit Transfer and Accumulation System (ECTS).

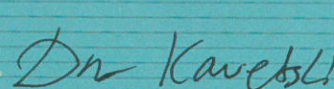
08/06/2018



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