

ΣΕΜΙΝΑΡΙΟ ΤΕΧΝΙΚΗΣ ΥΔΡΟΛΟΓΙΑΣ

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Introduction in Integrated Catchment Modelling

In this presentation, an introduction is made in the numerical models used for the simulation of the entire hydrological cycle (both rural and urban). Especially, it is focused on the linkage of the several models (which are considered as sub-models), with which linkage, the integrated catchment modelling framework is developed.

Dr Vasilis Bellos, Post-Doc Researcher, CH2M, UK

Uncertainty analysis in spatial environmental modelling

In many environmental and engineering studies variables of interest are spatially distributed. These variables are often used as input to spatial analyses and spatial models, for example, in land evaluation systems or hydrological models. Since mapped variables are only approximations of the real world uncertainty is introduced, which will propagate through the analyses and models. This talk gives an overview of an approach to the spatial uncertainty analysis.

Dr Kasia Sawicka, Post-Doc Researcher, Wageningen University, Netherlands

Uncertainties in hydrological modelling

Output from hydrological modelling platforms are used to take decisions that affect critical infrastructure and resources. This talk discusses the importance of uncertainty quantification through the model building process in urban-rural hydrology.

Antonio Moreno Ródenas, PhD candidate, TU Delft, Netherlands

Uncertainty-based decision making for water quality failures

Decisions to manage the risk of water quality failure are often taken using the urban drainage models. Most of these simulation models are deterministic, hence any uncertainty in these models can affect the outcome of the decision making process. During this talk we will look at risk-based decision making process for water quality failure caused by Combined Sewer Overflow discharges.

Ambuj Sriwastava, PhD candidate, University of Sheffield, UK

