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Session abstract

Title: Hydroinformatics

Convener: Prof Graeme Dandy

"Hydroinformatics concerns the integrated use of information and communication technologies, computer sciences, modelling and decision support systems in solving problems related to hydraulic, hydrological and environmental problems of urban, inland and coastal waters" (UNESCO-IHE website, www.unesco-ihe.org)

The field of hydroinformatics incorporates many different subthemes including the following applied to water resources or environmental problems:

Decision support systems

Optimisation models

Data driven models

Data mining

Artificial neural networks

Agent based modelling

Parallel computing

Remote sensing and GIS systems

Real time control