

Create and test surrogate models for 1D hydraulic models (MIKE URBAN)



The aim of this project is to develop and test surrogate models for the 1D hydraulic model MIKE Urban. The surrogate models are simple MATLAB models that replica the behavior of Mike Urban models. The methods will be based on volume-discharge relationships derived from MIKE Urban. The project will be a continuation of a thesis work from 2015.

Tasks:

- Identify simplest model structure for surrogates
- Develop surrogate models
- Compare results to MIKE Urban results

Tool: Primarily MATLAB and MIKE Urban

Project type

Topic is suitable for MSc project

Pre-requisite

Comfortable in coding in MATLAB and data processing + working with MIKE Urban

Group size

1-2 students

Department of supervisors

Main supervisor: DTU Environment

Co-supervisor: DTU Environment

Contact person

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