Research outputs:

Identifying fit-for-purpose lumped surrogate models for large urban drainage systems using GLUE
Research output: Research - peer-review › Journal article – Annual report year: 2019

Evaluating catchment response to artificial rainfall from four weather generators for present and future climate
Research output: Research - peer-review › Journal article – Annual report year: 2018

Importance of Subdivision Resolution of Surrogate models for Emulating Catchment Response and Surcharge
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Importance of Subdivision Resolution of Surrogate Models for Emulating Catchment Response and Surcharge
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Investigation of the usefulness of weather generator data as input to long-term simulations in urban hydrology
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Is your data correct? Validating and improving data collected in smart water networks
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Model predictive control of urban drainage systems: A review and perspective towards smart real-time water management
Research output: Research - peer-review › Journal article – Annual report year: 2018

Robust model for estimating pump characteristics and sewer flows from pumping station data
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Technical Note on the Dynamic Changes in Kalman Gain when Updating Hydrodynamic Urban Drainage Models
Research output: Research - peer-review › Journal article – Annual report year: 2018

Urban tunnel systems for conveyance and storage of storm- and wastewater: features, classification, and modelling
Research output: Research - peer-review › Poster – Annual report year: 2018

Urban tunnel systems for conveyance and storage of storm- and wastewater: features, classification, and modelling
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Using the Ensemble Kalman Filter to update a fast surrogate model for flow forecasting
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Advancing from underground to above-ground model predictive control in urban drainage
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017
A fast surrogate model tailor-made for real time control
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Model predictive control for urban drainage: testing with a nonlinear hydrodynamic model
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Testing high resolution synthetic rainfall time series representing current and future climates on CSO and other indicators
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Developing Fast and Reliable Flood Models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Dynamic gauge adjustment of high-resolution X-band radar data for convective rain storms: Model-based evaluation against measured combined sewer overflow
Research output: Research - peer-review › Journal article – Annual report year: 2016

Evaluation of Maximum a Posteriori Estimation as Data Assimilation Method for Forecasting Infiltration-Inflow Affected Urban Runoff with Radar Rainfall Input
Research output: Research - peer-review › Journal article – Annual report year: 2016

Identification and Application of Surrogate Models for Urban Drainage Modelling
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Målerdata kan gemme på gratis informationer for forsyningerne: Et case studie fra Halsnæs Forsyning baseret på højopløste måledata
Research output: Research - peer-review › Journal article – Annual report year: 2016

A partial ensemble Kalman filtering approach to enable use of range limited observations
Research output: Research - peer-review › Journal article – Annual report year: 2015

Auto-Calibration for Data Assimilation in Linear Reservoir Models Used in Flow Forecasting of Urban Runoff
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Flow Forecasting using Deterministic Updating of Water Levels in Distributed Hydrodynamic Urban Drainage Models
Research output: Research - peer-review › Journal article – Annual report year: 2014

Real Time Updating in Distributed Urban Rainfall Runoff Modelling
Research output: Research › Ph.D. thesis – Annual report year: 2014

Updating distributed hydrodynamic urban drainage models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Biotransformation kinetics and sorption of cocaine and its metabolites and the factors influencing their estimation in wastewater
Research output: Research - peer-review › Journal article – Annual report year: 2013

Comparing the impact of time displaced and biased precipitation estimates for online updated urban runoff models
Research output: Research - peer-review › Journal article – Annual report year: 2013

Comparison of short-term rainfall forecasts for model-based flow prediction in urban drainage systems
Research output: Research - peer-review › Journal article – Annual report year: 2013
Comparison of short term rainfall forecasts for model based flow prediction in urban drainage systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Impact of time displaced precipitation estimates for on-line updated models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Flow Forecasting in Urban Drainage Systems using Deterministic Updating of Water Levels in Distributed Hydraulic Models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Real time adjustment of slow changing flow components in distributed urban runoff models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Performance of MOUSE UPDATE for level and flow forecasting in urban drainage systems
Research output: Research › Article in proceedings – Annual report year: 2010

Application of high resolution x-band radar data for urban runoff modelling: constant vs. dynamic calibration
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Vejrradarbaseret styring af spildevandsanlæg
Research output: Research › Report – Annual report year: 2009

Projects:

The digital twin of urban drainage systems - dynamic models and measurements for error diagnosis
Project: PhD

Intelligent integration of deep urban tunnel systems in energy systems
Project: PhD

Hydraulic Modelling and data assimilation for deep urban tunnel systems
Project: PhD

Fuldaautomatisk decentral rensning af partikler i regnbetingede udledninger
Project: Research

Optimized water distribution using high-resolution data sources and novel data analysis methods
Project: PhD

Optimized real-time management of interacting water systems for a smarter city
Project: PhD

Surrogate modeling of inundation for both real time control and planning applications
Project: PhD

Uncertainty and adaptive estimation in storm- and wastewater system modelling
Project: PhD

Activities:
Valve status identification by temperature modelling in water distribution networks
Activity: Talks and presentations › Conference presentations

Integration af energi- og vandsektoren - potentialer og udfordringer
Activity: Talks and presentations › Conference presentations

MIKE POWERED BY DHI SEMINAR 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Theoretical aspects of ensemble data assimilation for the Earth system
Activity: Talks and presentations › Conference presentations

International Workshop On Urban Pluvial Flood Modelling
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.