WORKSHOP

Campus LyonTech la Doua
66 boulevard Niels Bohr
CS 52132
F 69603 Villeurbanne Cedex
France
T +33 (0)4 72 43 70 56
F +33 (0)4 72 43 92 77
novatech@graie.org
←
novatech.graie.org

1. Workshop title: Benchmarking of new urban flood modelling tools

2. Organiser / working group:

    - Water Green-Urban-Management (WaterGUM), UNSW Sydney, Australia; and,

    - The International Working Group on Data and Models

3. Chair(s): Ana Deletic, Behzad Jamali

4. Synopses: A growing number of innovative urban flood modelling approaches and tools have been introduced in recent years. These models have generally been tested against traditional flood modelling methods. There is little knowledge on the strength, weaknesses and suitability of these new methods compared to each other. To fulfil this gap, the International Working Group on Data and Models (that works under the IWA/IAHR Joint Committee on Urban Drainage JCUD) agreed to conduct a research study on benchmarking recently developed urban flood modelling tools. In this project, world leading research groups will gather to evaluate these new urban flood modelling tools within common case studies. The findings of the project will be reported as a research paper in a top ranked journal. As part of this project, leading research groups will be invited to participate. For the aim of this workshop, each participant group are asked to:

    (i)   Suggest a case study that is suitable for their type of model;

    (ii)   Run their flood model(s) for their suggested case study and prepare the relevant results.

    (iii)   Run their flood model(s) for the Test 8a case from (Néelz & Pender, 2013)

    (iv)   Share the data and results in a repository and present the results at the workshop.

The aim of this workshop is to gather and share the early findings. Each group will have a 20-minute presentation. They will then select case studies to model by all groups. Preliminary results and conclusions will be discussed. Future work will be planned. Finally, a draft of the paper structure will be prepared, and target journal will be selected.

Néelz, & Pender. (2013). Benchmarking the latest generation of 2D hydraulic modelling packages (SC120002). Retrieved from Environment Agency

5. Number of participants: We intend to invite the groups listed in the Programme Table in the below (expecting 20 to 40 participants)

6. Schedule: 8:30 - 17:00

7. Registration rate: 80€

8. Language: English

9. Preliminary programme (see on reverse)

Programme

Time slot	Workshop Activity / Topic	Speakers (TBC)
Welcome and introduction		
08:30 – 08:45	Arrival and Registration	
08:45 – 08:55	Welcome presentation – Project overview	Ana Deletic (UNSW)
08:55 – 09:10	Overview of the workshop plan	Behzad Jamali (UNSW)
09:10 – 09:20	Q&A	
Participants presentation – Model introduction and results of case study implementations		
09:20 – 09:40	Exeter University	Michael Gibson
09:40 – 10:00	KU Leuven	Andres GONZALEZ INIGUEZ
10:00 – 10:20	Newcastle University	Chris Kilsby
10:20 – 10:50	*Morning break*	
10:50 – 11:20	ITWH	Lothar Fuchs
11:20 – 11:40	DTU	Karsten Arnbjerg-Nielsen
11:40 – 12:00	UNSW	Behzad Jamali
12:00 – 12:20	EAWAG (CNN flood model & floodX database)	João P. Leitão
12:20 – 13:10	*Lunch break*	
Discussion and Future work		
13:10 – 15:10	Selection of metrics for comparing models Selection of case studies Discussing the scope of project: 2D only or 1D-2D? Discussing research questions	
15:10 – 15:30	*Afternoon Break*	
15:30 - 16:30	Overall discussion on future work to be done by the Participants Selection of the target Journal	
16:30 – 16:45	Conclusion and wrap-up	