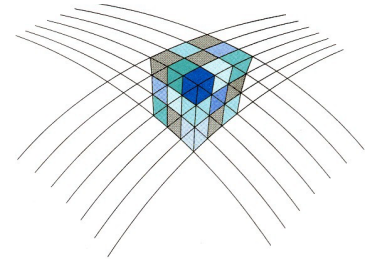


NCG



Netherlands Center for Geodesy and Geo-informatics

Abstract submission for the NCG Symposium 2020

Abstract submission deadline: **24 August 2020**

Please submit your abstract EasyChair

<https://easychair.org/conferences/?conf=ncg2020>

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Presentation title: Towards realistic urban wind simulations with 3D city models semantics

Demo: **yes/no**

Abstract (~100 words and optionally 1-2 figures):

In a world where climate change and urbanization are pushing the comfort boundaries of our cities, the use of 3D city models in computational fluid dynamics (CFD) becomes an essential tool to evaluate urban designs and layouts. Within this presentation we will introduce the current use of semantic 3D city models at the 3D geoinformation group, tailored to strengthen the connection between open-source generated 3D city models and their exploitation within the open-source fluid dynamics community. The talk is centered around wind simulations performed in part of the TU Delft campus, where the use of geometry 3D model variants and semantics is explored to improve current local wind conditions.

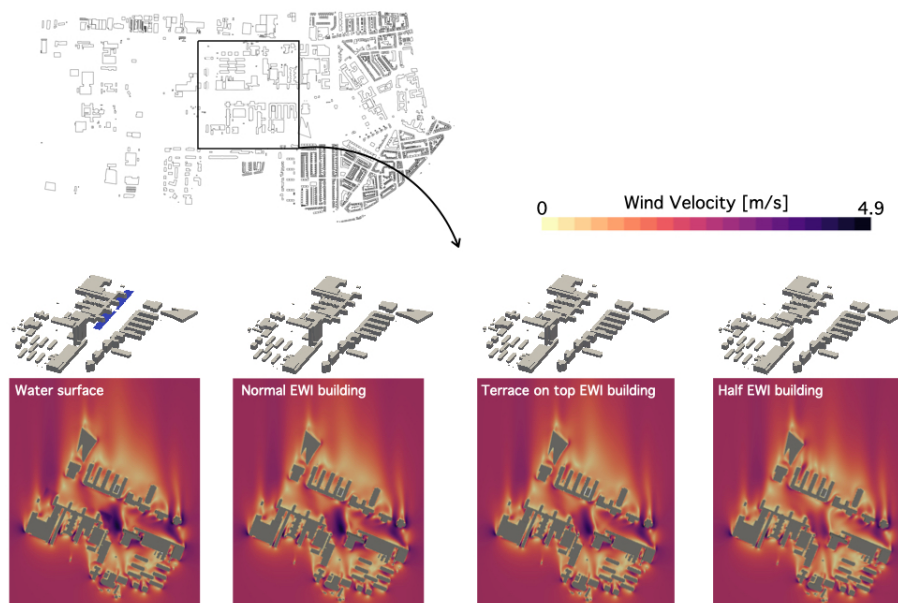


Figure 1: Velocity contours at pedestrian level TUDelft