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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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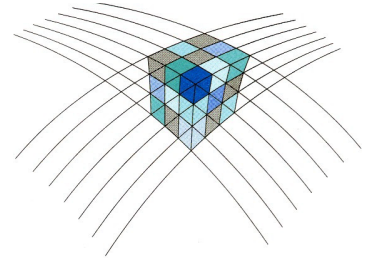Affiliation: TU Delft

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Presentation title: Representing and modelling 3D city models with CityJSON

Demo: yes

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

I will present an overview of CityJSON (https://cityjson.org), a JSON-based encoding for the OGC CityGML data model, which is an open standardised data model and exchange format to store digital 3D models of cities and landscapes. The aim of CityJSON is to offer an alternative to the GML encoding of CityGML, which can be verbose and complex (and thus rather frustrating to work with). CityJSON aims at being easy-to-use, both for reading datasets, and for creating them. It was designed with programmers in mind, so that tools and APIs supporting it can be quickly built, and several have been created already. I will present the software ecosystem that has been built so far: a QGIS plugin, (web-)viewers, a CLI to process and manipulate CityJSON files, converters (CityGML <-> CityJSON), and different software have now reading/writing capabilities. All of these are open-source.

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