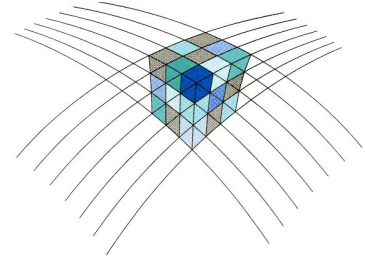


NCG



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: Smart fusion of mobile laser scanner data with large scale topographic maps

Demo: ~~yes~~/no

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

The classification of Mobile Laser Scanner (MLS) data is challenging due to the combination of high variation in point density with a high variation of object appearances. We present a new strategy by fusing the MLS data with a large scale topographic map. The approach presented here first fuses polygon objects MLS points. Non-ground MLS points are further classified by segmenting and matching the laser points to corresponding map point objects. We show that the fusion process is capable of classifying MLS data and detecting changes between the map and MLS data. This can be used as training data in deep learning approaches.

