**DEM Data Quality and Fusion**  
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ABSTRACT

After a very short introduction into the problem of producing huge amounts of geodata, without sufficient characterization of their quality and/or provision of necessary metadata, we will focus on Digital Elevation Models (DEMs), very important geodata used in numerous applications. Firstly, we will briefly mention what is commonly used in currently available DEMs regarding quality characterization. Secondly, we will report on methods to estimate the quality, especially geometric accuracy, of DEMs. Thirdly, we will present some methods and results for fusing DEMs in order to generate better DEMs, especially regarding accuracy.