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Validation analysis of OpenStreetMap data in some areas of China

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Abstract. The rapid development of computer technologies has given rise to the increase of open source web-based map services such as OpenStreetMap, a global vector data created by volunteers for free use. There is a concern about the quality and usability of the OpenStreetMap data because the volunteers that contribute the data generally lack the sufficient cartographic training. This paper focuses on the data quality analysis method for OpenStreetMap. A model for usability evaluation has been proposed. A benchmark between OpenStreetMap data and the 1:10 000 topographic data in some areas of China has been done to verify the proposed model, and the method proves to be effective.

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