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GEO SPATIAL DATA FOR PRIVATE TRANSPORTATIONAL QUESTIONS

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ABSTRACT

Keywords: *private transportation, data exchange, risk assessment, 3D city models, data exchange*

Content:

This contribution focusses on potential of geo data to support risk assessment in the field of private transportation and the potential of sensor-equipped vehicles to update geo data such as 3D city models.

Private transportation and carriage of goods plays a central role in both economic activities and leisure activities. Characteristics and appearance of urban environments are extremely adapted to traffic requirements. Geo data describing this infrastructure are available in several formats and are able to support planning of infrastructure for private transportation. They can be used to reveal danger originates from dazzling, for instance.

Since Advanced Driver Assistance Systems (ADAS) are based on fused sensors that are mounted on the vehicle for the prediction of potential danger today, they first, could exposure more risk situations when additional geo data would be protracted and, second, they could be used to update geo data such as 3D city models by contributing limited confidential data, e.g. laser scanner data, to a central data base. As a precondition, standardized data formats and protocols are needed.

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