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Identification of accident-prone sections in roadways with incomplete and uncertain inspection-based information: a distributed hazard index based on evidential reasoning approach

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**Highlights:**

- **A method and an index is proposed for road safety evaluation based on ER approach**
- **Risk can be expressed by several degrees and confidence values instead of one definite figure**
- **Index is suited to the objective nature of evaluations with a degree of uncertainty**
- **Results of a case study show good consistence with the method based on accident records**
- **Index enables safety managers to make better decisions with consideration of uncertainties**

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