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An efficient certificateless aggregate signature without pairings for vehicular ad hoc networks

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**Highlights**

- The proposed signature scheme only requires a general one-way hash function, which consumes less computing time than a special one-way hash function (MapToPoint).
- A complex security analysis was performed on the proposed scheme. This analysis revealed that the proposed scheme can meet the safety and privacy requirements of VANETs.
- The communication and computation costs associated with the proposed scheme were analyzed. The results demonstrate that the performance of the proposed scheme surpasses that of previously proposed schemes for VANETs.

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