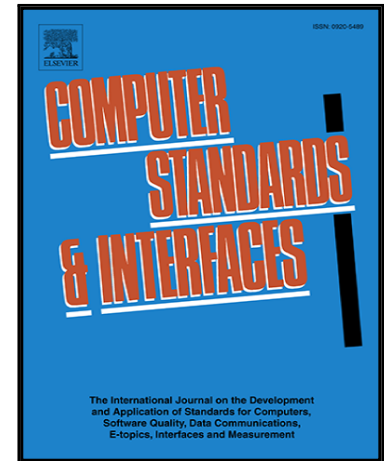


## Accepted Manuscript

Reliable routing in IP-based VANET with network gaps

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**Highlights**

- The architecture based on road segments and virtual nodes is proposed. Based on the architecture, the global address structure, local address structure and virtual address structure are presented.
- Based on the proposed architecture and address structures, a routing establishment algorithm is proposed to establish routing paths without network gaps and aims to avoid the packet loss caused by network gaps.
- Based on the proposed routing algorithm, a message can be transmitted along the shortest routing path without a network gap, so the packet delivery rate is improved.

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