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International Journal of Computer Applications  
© 2010 by IJCA Journal

Number 2 - Article 7

Year of Publication: 2010

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10.5120/1552-2069

{bibtex}pxc3872069.bib{/bibtex}

**Abstract**

In this article, we propose a simple as well as efficient method of tracking nodes (EMTN) in mobile ad hoc networks. During the process of route discovery, source node of a communication session floods ROUTE\_REQUEST packets to find a suitable route to the desired destination. EMTN aims at reducing the number of ROUTE\_REQUESTS at each hop. This generates great performance enhancement especially in dense networks. Simulation results show that EMTN significantly increases the packet delivery ratio while decreasing the cost of messages and consumption of energy of network nodes at the cost of a bit extra bandwidth.

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### Index Terms

Computer Science

Wireless

### Key words

Cache

Directional Antenna

Flooding

HELLO

ROUTE\_REQUEST

