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International Journal of Computer Applications  
© 2015 by IJCA Journal

Volume 122 - Number 4

Year of Publication: 2015

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10.5120/21690-4795

{bibtex}pxc3904795.bib{/bibtex}

## Abstract

The area of Mobile Ad-hoc Network (MANET) has already been a topic of attention from past decade among the research community owing to its potential communication advantages as well as issues associated with it. However, the cases of inter-domain routing in the MANET have challenges furthermore compared to conventional MANET system. Border gateway protocol cannot be applied to support inter-domain routing in mobile ad-hoc network as it cannot support the dynamic behavior of MANET. Hence, the this paper proposes a novel technique called as SCIDR-Scalable Cluster based Inter-domain Routing that is meant exclusively for heterogeneous MANET system. SCIDR is designed on a totally different principle compared to standard CIDR protocol, where CSI-Channel State Information, as well as channel correlation factor, are introduced to leverage further outcomes. For the first time, extensive performance parameters are used to benchmark the proposed system that ensures effective scalability.

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Computer Science

## Index Terms

Networks

## Keywords

Clustering Cluster based Inter-Domain Routing Channel State Information  
Channel Correlation

Optical Channel Gain.