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.

References

SCIDR: A Scalable Cluster based Inter-Domain Routing Protocol for Heterogeneous MANET

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Protocol for MANET?, IEEE

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