Abstract

This paper investigates about the cooperative caching scheme which allows sharing their cache memory spaces among different node in ad-hoc network. We have applied trust model in cooperative caching which prevents malicious node from taking part in caching scenario and hence improves the reliability of the network. As routing protocol does not bother about the data accessibility and availability, instead their work mainly focus on finding the optimal route between the source and destination. To make routing more useful and reliable trust parameter can be used and to improve the data availability caching can be used. In this paper we apply the trust relationship among the nodes, and according to this trust relationship we take decision whether to make that node as a caching node or consider that node as a future threat in the network. Using this model, we can take more advantage of caching technique by neglecting the overhead generated by such malicious node.

References

- Ge-Ming Chiu and Cheng-Ru Young, "Exploiting In-Zone Broadcasts for Cache Sharing in Mobile Ad Hoc Networks," IEEE TRANSACTIONS ON MOBILE COMPUTING,
Trusted Cooperative Caching Scheme in Ad-hoc Networks

Volume:8, NO. 3 MARCH 2009.

Index Terms

Computer Science Wireless
Keywords
Caching  Cooperative Caching  Trust  Cache Consistency