Abstract

The performance analysis of different Delay Tolerant Networks (DTNs) routing mechanisms plays a key role in understanding the design of DTNs. It gives the capacity to describe the conduct and execution of routing protocols, which encourages one to choose proper routing protocol for the application or the system under control. DTNs routing protocols have differ in the knowledge that they use in making routing decision and the number of replication they
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make. The performance of different DTNs routing protocols (i.e., Direct Delivery, First Contact, Epidemic, Spray and Wait, Prophet and MaxProp) are compared under the various mobility models like Random Waypoint (RWP) model, Map-Based Mobility (MBM) Model, the Shortest Path Map-Based Movement (SPMBM) model and Random Walk (RW) model. Among these protocols, the first four routing protocols do not require any knowledge about the network. The latter two protocols use some extra information to make decisions on forwarding.

References

Index Terms

Computer Science       Networks

Keywords

Delay Tolerant Networks (dtns)  Routing Protocols  Mobility Models  Opportunistic Network Environment (one)