A Configurable Routing Protocol For Bluetooth Wireless Networks 余誌民,余菁蓉

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Abstract

Blueweb is a self-organizing Bluetooth-based multihop network equipped with a scatternet

formation algorithm and a hybrid routing protocol. The routing protocol combines the reactive

method globally and the proactive method locally to discover the optimal path for packet transmission.

In Blueweb, the route master maintains the global topology information and each master maintains its

own N-tier routing information. In this paper, a tier number decision algorithm is used in Blueweb to

determine the optimal number of tiers for all the other masters. Our computer simulation results show

that this algorithm can efficiently improve the routing performance and reduce the routing

maintenance cost for Blueweb routing protocol.

Keyword: Bluetooth, scatternet formation, routing protocol.