Abstract

The conventional routing protocols in mobile ad hoc network (MANET) using conventionally a common transmission power for both transmission and overheads to transfer the data packet from the source to the destination node have been revised. Hence, an technique was developed to establish an algorithm(Adaptive-Transmission-Power Ad Hoc On-Demand Distance Vector (ATP-ADOV) routing protocol - to control the transmission of power dynamically and overheads in MANET. The proposed ATP-ADOV reduced the energy consumption in the networks and improved the lifetime of the participating mobile nodes as well as that of the lifespan of the networks.

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Index Terms

Computer Science          Wireless

Keywords

MANET, Routing protocol, Network simulator, Transmission range, Throughput, Delay, Packet delivery ratio, Energy consumption, efficiency and lifetime