



RESEARCH ARTICLE

Comparison and Simulation of POR and E-POR Routing Protocols in MANETs

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Abstract— *A Mobile Ad hoc Network (MANET) is a group of mobile nodes that form a multi-hop wireless network. The topology of the network can change randomly due to unpredictable mobility of nodes and propagation characteristics. POR and EPOR protocols are on-demand routing protocols. First Position-based Opportunistic Routing (POR) protocol which takes advantage of the stateless property of geographic routing and the broadcast nature of wireless medium. When a data packet is sent out, some of the neighbor nodes that have overheard the transmission will serve as forwarding candidates, and take turn to forward the packet if it is not relayed by the specific best forwarder within a certain period of time. In E-POR (Enhanced-POR) is some wants better to the POR. Here decreasing the end-to-end delay and increasing throughput. In this paper, we compared the performance of POR and E-POR protocol by using simulation parameters with ns-2simulation. And E-POR is better performance than that of POR protocol. In network simulation E-POR protocol end-to-end delay is less than POR protocol. In E-POR may achieve the better throughput evolution than the POR.*

Key Terms: - *Ad-hoc network; mobile ad hoc network; POR; E-POR; communication channel*

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