



The dominating-set-based routing technique in ad hoc networks

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Abstract: *Ad hoc networks are considered a key component of the supernode system in ad hoc networks. Within the super node system a dominating-set routing technique is used to improve message delivery over MANETs and to achieve better resource utilization. The performance of the dominating-set routing technique depends on estimation accuracy of the probability of a future contact between nodes. The distribution for the node-to-node intermeeting time and present numerical results is used to demonstrate that the distribution can be used to improve the dominating-set routing technique performance. The distribution can be employed to relax the constraints of selecting the dominating-set members in order to improve the system resource utilization.*