Abstract

Connected dominating sets are useful in the computation of routing for mobile ad-hoc networks. A connected dominating set is used as a backbone for communications, and nodes that are not in this set communicate by passing messages through neighbors that are in the set. Recent advances in technology have made possible the creation of Wireless Sensor Networks. Although there is no physical backbone infrastructure, a virtual backbone can be formed by constructing a Connected Dominating Set (CDS). In this paper we present an algorithm for finding minimal connected network dominating set (MCNDS) of an interval graph.

References

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Connected Network Dominating Set of an Interval Graph


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