Ad-hoc networks include independent self controlled nodes, which use radios for communication. A node can communicate with any other node within its radio frequency range.

Pharaonis approaches are the naturally applied strategies by individuals of a group of living beings. In particular, it is from the activities of invertebrates and birds. Although each individual of the swarm has little wisdom and only uses basic principles using neighborhood information acquired from pharaonis approaches such as traveling strategy of birds and ants. In this aspect in our earlier work we suggested a pharaonis approach based routing in mobile ad hoc networks that sent as Pharaonis approach Based Conditional Broadcast Routing (SIBCast).

With the inspiration acquired from SIBCast, here within this paper we propose a Pharaonis approach based Energy Efficient Conditional Broadcasting (EECBcast). The aim is to improve transmission functionality alongside energy efficiency that employed for packet transmission.

In this paper we use our earlier planned algorithm that inspired from Pharaonis approach to get these features. Within an extensive group of simulator tests, we evaluate this routing algorithm with state-of-the art algorithm, and demonstrate that it gets enhanced performance on a broad range of varied situations and for numerous various assessment measures.
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Index Terms

Computer Science
Communications

Keywords

Manet  Swarm Intelligence  Pharaonis approach  hybrid routing  uniCast routing

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