VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM, KARNATAKA – 590 010.

Project Report
On
"Detection Of Misbehaving Nodes In Mobile ADHOC Network"

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In

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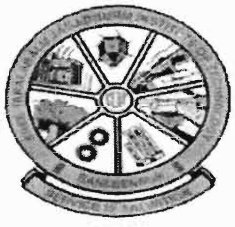
By

Hannie S.Adgal	**2SR03CS014**
Bhargavi S.Y	**2SR05CS013**
Rakshitha H.N	**2SR05CS045**

UNDER THE GUIDANCE OF

Mr.Ramesh Kumar H.K (M.Tech)

Lecturer Of CSE Dept.



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SRI TARALABALU JAGADGURU INSTITUTE OF TECHNOLOGY
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ABSTRACT

We study routing misbehavior in MANETs (Mobile Ad Hoc Networks) in this project. In general, routing protocols for MANETs are designed based on the assumption that all participating nodes are fully cooperative. However, due to the open structure and scarcely available battery-based energy, node misbehaviors may exist. One such routing misbehavior is that some selfish nodes will participate in the route discovery and maintenance processes but refuse to forward data packets.

Here we propose the 2ACK scheme that serves as an add-on technique for routing schemes to detect routing misbehavior and to mitigate their adverse effect. The main idea of the 2ACK scheme is to send two-hop acknowledgment packets in the opposite direction of the routing path. In order to reduce additional routing overhead, only a fraction of the received data packets are acknowledged in the 2ACK scheme. Analytical and simulation results are presented to evaluate the performance of the proposed scheme.