

A  
Major Project Report  
On  
**ROBUST DEFENSE SCHEME AGAINST  
SELECTIVE DROP ATTACK IN WIRELESS  
ADHOC NETWORKS**

*Submitted to*  
**Jawaharlal Nehru Technological University, Hyderabad**  
*in partial fulfillment of the requirements for the award of Degree of*  
**Bachelor of Technology**

*in*  
**Computer Science & Engineering**  
*by*

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**2022-2023**



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



### CERTIFICATE

This is to certify that the project entitled “**ROBUST DEFENSE SCHEME AGAINST SELECTIVE DROP ATTACK IN WIRELESS AD HOC NETWORKS**” is submitted by **M. Sathwika (196Y1A0566), N. Pavani (196Y1A0573), S. Triveni (206Y5A0509) and N. Navya (196Y1A0572)** in the partial fulfillment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering during academic year 2022-23.

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## ABSTRACT

In an ad hoc network, mobile computers cooperate to forward packets for each other, allowing nodes to communicate beyond their direct wireless transmission range. Performance and security are two critical functions of wireless ad-hoc networks (WANETs). Network security ensures the integrity, availability, and performance of WANETs. It helps to prevent critical service interruptions and increases economic productivity by keeping networks functioning properly. Since there is no centralized network management in WANETs, these networks are susceptible to packet drop attacks. In selective drop attack, the neighbouring nodes are not loyal in forwarding the messages to the next node. It is critical to identify the illegitimate node, which overloads the host node and isolating them from the network is also a complicated task. In this paper, we present a resistive to selective drop attack (RSDA) scheme to provide effective security against selective drop attack.



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