



## Network Vulnerability Detection Using Ant Colony Optimization-A Review

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**ABSTRACT:** A Computer Network is often refers to as a network, is used to share resources, applications and information through devices connected to the network. Computer network is a collection of autonomous computer interconnected by a single technology. The computers are said to be interconnected if they are able to exchange information. The connection need not be a copper wire, fiber optics, microwaves, infrared and communication satellites can be used. Networks come in many sizes, shapes and forms. Network Security is becoming an important issue for all the organizations, and with the increase in knowledge of hackers and intruders they have made many successful attempts to bring down high-profile company University network and web services.

### [1] INTRODUCTION

A Computer Network is often refers to as a network, is used to share resources, applications and information through devices connected to the network. Computer network is a collection of autonomous computer interconnected by a single technology. The computer are said to be interconnected if they are able to exchange information. The connection need not be a copper wire, fiber optics, microwaves, infrared and communication satellites can be used. Networks come in many sizes, shapes and forms. The main issue here is resource sharing and the goal is to make all programs, equipment and especially data available to anyone on the network without regard to physical location of the resources and the user. There are two types of computer network configuration peer-to-peer networks and client/server networks. Peer-to-peer are commonly implemented where less than ten computers are involved and where strict security is



not necessary. Client/server networks are more suitable for larger networks. Network security is the process of preventing and detecting unauthorized access to your network. Prevention measures help you to stop unauthorized users (also known as "intruders") from accessing any part of your Network. Detection helps you to determine whether or not someone attempted to break into your system, if in a safe, and thrown at the bottom of the ocean."

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