

# CSE 4000

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## 1. What I studied this week

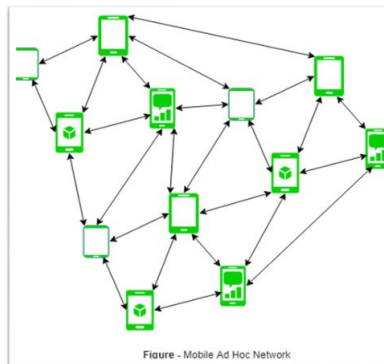
1. Abstract

2. Keywords

## 2. What I have learnt

### Mobile Ad hoc Network (MANET)

MANET is a wireless network which has no fixed infrastructure.



*Fig 1: Mobile Ad hoc network*

### Security Issues in MANET

1. **Active:** Active attacks are the attacks that are performed by malicious nodes.
  - a. Sink holes
  - b. Denial of Service
  - c. Wormhole Attack or Blackhole Attack
  - d. Fabrication

2. **Passive:** In passive attacks, the routing protocol is not disturbed. Valuable information like node hierarchy and network topology is obtained
  - e. Eaves Dropping
  - f. Traffic Analysis
  - g. Monitoring

## Security Mechanisms in MANET

There are two mechanisms in MANET. These are:

1. **Intrusion:** An Intrusion Detection System (IDS) is an indispensable part of a security system and is mainly introduced to detect possible violations of the security policy by monitoring system activities and responding to those that are apparently intrusive.
2. **Secure routing technique:** There are numerous kinds of attacks against the routing layer in the mobile ad hoc networks, some of which are more sophisticated and harder to detect than others, such as Wormhole attacks and Rush attacks.

## 3.Next week plan

1. Blackhole attack
2. Secure Data Transfer