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**DEPARTMENT OF
COMPUTER SCIENCE ENGINEERING & INFORMATION TECHNOLOGY**

Department of Computer Science Engineering & IT, KISD, Bhubaneswar was established in 2001. Since its inception, the Department is under dynamic progress and is able to establish the reputation for imparting Quality Education at Undergraduate & Post Graduate programmes. The department has well equipped modern laboratories such as Architecture, Operating System, DBMS, Project & Seminar pursuing research keeping in view of the technological advancement.



National Seminar

on

WIRELESS ADHOC NETWORK AND ITS RESEARCH TRENDS

WANRT-2012
28th - 29th April 2012

Convener

Prof. Sanjaya Kumar Sarangi
Prof. Vikas Kumar



Department of CSE & IT

Koushuv Institute of Self Domain (KISD)

Plot No-1, Sector - B, CNI Complex, Patia

Bhubaneswar-751024

<http://www.koustuvgroup.ac.in>

INTRODUCTION

Department of Computer Science Engg. & IT, Koustuv Institute of Self Domain (KISD), Bhubaneswar organises a Seminar. The objective of the seminar is to encourage & strengthen the student's towards the proactive challenges of adhoc network in combination of traditional wireless network.

OBJECTIVE

To bring researchers/practising engineers & academicians to share their ideas & experience in the frontier issues & trends in the following topics.

- ▶ Evolution of Wireless Communication.
- ▶ Fundamentals of Adhoc Networks Application.
- ▶ Its Research Trends.

PARTICIPANTS

Senior undergraduate students, Graduate students, Post Graduate students, Researchers from academic as well as industry and faculty members interested in the field of Computer Science Engineering from all over India are encouraged to participate. The academicians must be from AICTE Recognized institutes.

EMINENT SPEAKERS

- ▶ Prof. (Dr.) P.M. Khilar
NIT, Rourkela
Date: 28.04.2012 (Saturday)
- ▶ Prof. (Dr.) Suchismita Chinara
NIT, Rourkela
Date: 29.04.2012 (Sunday)



CONTENTS OF THE SEMINAR

Evolution of Wireless Communication:

Brief history of wireless communication, Advantages of wireless communication, Disadvantages of wireless communication, Wireless network generation, Comparison of wireless system, Application of wireless communication.

Adhoc Network & its Research Trends:

In the field of wireless communications and mobile computing, mobile ad hoc networks have received great attention recently. Research into ad hoc networks began in the early 1980s as DARPA packet radio networks. Ad hoc networks operate without any central administration (i.e., base stations and mobile switching centers). Because of its independence from fixed infrastructure, ad hoc networking is considered as the most promising network architecture to enable the 'many many communications.' The lack of infrastructure in ad hoc networks, which differentiates adhoc networks from cellular networks, raises several research challenges. Each network node must act as a router and packet forwarder. Each node communicates via wireless radios that have limited transmission radius. If a node wishes to communicate with another node that is not within its transmission range, it must build a multihop route and rely on intermediate nodes to forward the packet. In addition, each node is mobile and hence the network topology constantly changes in an unpredictable manner. These challenges of ad hoc networks in combination with those of traditional wireless networks (e.g., limited bandwidth, power constraints, security, limited storage) make ad hoc networking research interesting and challenging.

REGISTRATION FEE

Research / Student / PG students / Teaching staff: Rs. 500/-

VENUE

▶ GATE/PSU Gallery
KISD, Bhubaneswar

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WIRELESS ADHOC NETWORK AND ITS RESEARCH TRENDS

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Signature of Participants

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