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# CONTENTS

Sr. No.	TITLE & NAME OF THE AUTHOR (S)	Page No.
1.	<b>THE IMPACT OF USE OF ICT FOR BUSINESS PROCESS MANAGEMENT IN e-TOURISM</b> <i>VIDYULLATA V. PAWAR &amp; DR. S. D. MUNDHE</i>	1
2.	<b>A ROLE OF KNOWLEDGE BASED SYSTEM IN INFORMATION SYSTEM AUDIT</b> <i>A. B. DEVALE &amp; DR. R. V. KULKARNI</i>	3
3.	<b>XML DATABASE: PAST, PRESENT AND FUTURE</b> <i>KUMAR KALAMADI</i>	6
4.	<b>CRITICAL CHALLENGES AND TRANSFORMATIONS IN EDUCATION IN NIGERIA: SYNTHESIS AND PROGNOSIS</b> <i>TITUSAMODU UMORU</i>	8
5.	<b>IMPACT OF INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) AMONG EXPORTER: A CRITICAL REVIEW OF LITERATURE</b> <i>S.SHOBANA &amp; DR. M. RAJAPRIYA</i>	12
6.	<b>SCOPE OF INFORMATION TECHNOLOGY IN THE BANKING SECTOR</b> <i>SHRI VALLABH H. LELE</i>	21
7.	<b>PROBLEMS AND CHALLENGES OF COLLECTION DEVELOPMENT IN DIGITAL LIBRARIES</b> <i>S.R. MANDALE &amp; DR. KHOT N. B.</i>	23
8.	<b>IMPLEMENTATION OF ARTIFICIAL NEURAL NETWORK IN CONCURRENCY CONTROL OF DISTRIBUTED DATABASE SYSTEM</b> <i>A. A. SATTIKAR &amp; A. A. GOVANDE</i>	26
9.	<b>RESEARCH INFORMATION TECHNOLOGY: BEHAVIORAL ACCOUNTING</b> <i>PATIL BHAGWAN SHANKAR</i>	30
10.	<b>A STUDY ON USERS' PREFERENCE TOWARDS MATRIMONIAL SITES IN COIMBATORE CITY</b> <i>R.MONISHA</i>	33
11.	<b>FEDENA: EFFECTIVE ICT TOOL FOR EDUCATION MANAGEMENT SYSTEM</b> <i>VARSHA P. DESAI</i>	36
12.	<b>SYSTEMATIC AND SCIENTIFIC APPROACH OF WEB DESIGNING</b> <i>NILESH RAYGONDA PATIL</i>	40
13.	<b>PROMINENCE OF LISTENING EXPERTISE IN COMMUNICATION</b> <i>DEEPA PATIL</i>	42
14.	<b>A REVIEW ON THE ROLE OF MOBILE BANKING IN SELECTED AREAS OF KARAD</b> <i>SANTOSH B. POTADAR</i>	44
15.	<b>CHALLENGES IN WIRELESS NETWORK</b> <i>SARIKA BABAN GAIKWAD</i>	46
16.	<b>RURAL INVESTORS' PERCEPTION TOWARDS MUTUAL FUND DISTRIBUTION</b> <i>L. MEENA</i>	48
17.	<b>IMPACT OF GENETIC ALGORITHM IN CODE COVERAGE FOR TEST SUIT BY JUNIT IN DYNAMIC CONVERSION</b> <i>SASHIBHUSAN NAYAK &amp; ANIL KUMAR BISWAL</i>	52
18.	<b>A STUDY ON CUSTOMER SERVICES OF NATIONALISED BANKS IN BANGALORE CITY</b> <i>NANDINI.N</i>	56
19.	<b>A CRITICAL APPRAISAL OF RISK MANAGEMENT STRATEGIES OF MICROFINANCE INSTITUTIONS IN GHANA</b> <i>ALHASSAN BUNYAMINU &amp; CHARLES BARNOR</i>	63
20.	<b>CONSUMER TRUST IN ONLINE SHOPPING IN THE DOABA REGION OF PUNJAB</b> <i>SHABNAM GULATI &amp; DUSHANT NARULA</i>	71
	<b>REQUEST FOR FEEDBACK &amp; DISCLAIMER</b>	76

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## CHALLENGES IN WIRELESS NETWORK

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### ABSTRACT

*Today's world is an electronic or digital world and Wireless technology play an important role in digital world .It reduces the human efforts for accessing data at various locations by replacing wired devices with wireless devices and also providing access to devices having mobility. Since wireless devices need to be small and bandwidth constrained, some of the challenges in wireless networks are mobility, data rate , Power management, security and Quality of service.*

### KEYWORDS

Wireless Local Area Networks (WLANs), IEEE 802.11, Wireless Personal Area Networks (WPAN), Wireless Wide Area Networks (WWAN).

### 1. INTRODUCTION

Wireless networks take the rapid growth of the internet within the few years. It is the transport mechanism between devices and the traditional wired networks. Wireless networks are categorized into three groups based on their coverage range:

1. Wireless Wide Area Networks (WWAN) such as 2G cellular, Global system for mobile communication(GSM) etc,
2. Wireless local area networks (WLAN) such as IEEE 802.11, HiperLAN etc.
3. Wireless Personal Area Networks (WPAN) such as Bluetooth, InfraRed (IR) etc.

All of these technologies are "Wireless"—they receive information and transmit information using electromagnetic waves. Wireless technologies use wavelengths ranging from the radio frequency (RF) band up to and above the IR band. The frequencies in the RF band cover a significant portion of the EM radiation spectrum, extending from 9 KHz, the lowest allocated wireless communications frequency, to thousands of GHz.

Wireless communication continuous to enjoy growth in the cellular telephony, wireless internet. Now these devices allowed users access to stored data even when they travel. Users can carry their laptops anywhere and they can access all networking resources anywhere & anytime& this is the main aim of wireless networks. Currently, wireless access points give larger security than the early wired internet connections. As more wireless technology is wireless technology, this will be a good stepping-stone for providing a good secure solution to any wireless solution.

### 2. WIRELESS STANDARDS

Wireless technologies confirm to a variety of standards and offer varying levels of security features. The wireless standard follows the IEEE 802.11 standards and Ad hoc networks (Bluetooth), which was developed by a consortium of commercial companies making up the Bluetooth Special Interest Group (SIG). These standards are:

#### 1. IEEE 802.11

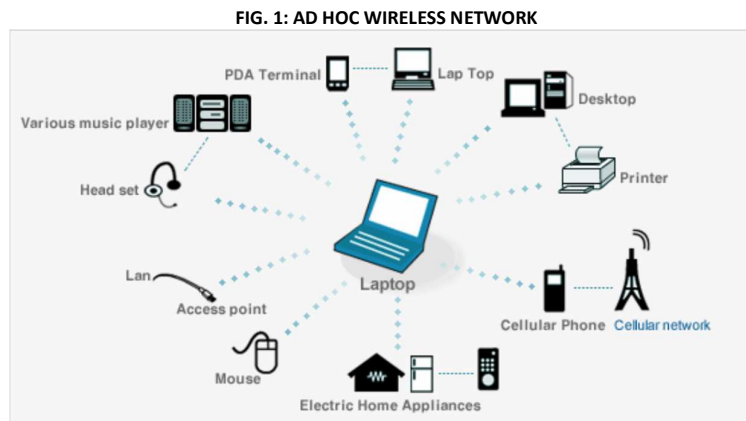
IEEE 802.11 is a basic standard for Wireless Local Area Network (WLAN) communication. IEEE 802.11 standard was first introduced in 1997. It was envisioned for home and office environments for wireless local area connectivity and supports three types of transmission technologies namely

- i) Infrared (IR)
- ii) Frequency Hopping Spread Spectrum (FHSS)
- iii) Direct Sequence Spread Spectrum (DSSS).

802.11 is the original WLAN standard, designed for 1 Mbps to 2 Mbps wireless transmissions. In 1999 two other transmission technologies were included Orthogonal Frequency Division Multiplexing (OFDM) and High Rate Direct Sequence Spread Spectrum (HR-DSSS). The second OFDM modulation scheme was introduced in 2001 for high data rates.

#### 2. AD HOC NETWORKS

Ad hoc networks such as Bluetooth are networks designed to dynamically connect remote devices such as cell phones, laptops. These networks are termed "ad hoc" because of their shifting network topologies. Whereas WLANs use a fixed network infrastructure, ad hoc networks maintain random network configurations, relying on a master-slave system connected by wireless links to enable devices to communicate. In a Bluetooth network, the master of the piconet controls the changing network topologies of these networks. It also controls the flow of data between devices that are capable of supporting direct links to each other. As devices move about in an unpredictable fashion, these networks must be reconfigured on the fly to handle the dynamic topology. The routing that protocol Bluetooth employs allows the master to establish and maintain these shifting networks.



### 3. CHALLENGES OF WIRELESS NETWORK

Wireless devices need to be small and wireless networks are bandwidth limited, some of the key challenges in wireless networks are data rate, power Management, Security, Mobility ,Quality of Service (QoS) and Health Concern.



**A. DATA RATE**

Improving the current data rates to support future high speed applications is essential, especially, if multimedia service are to be provided. Data rate is a function of various factors such as the data compression algorithm, interference mitigation through error-resilient coding, power control, and the data transfer protocol. Therefore, it is imperative that manufacturers implement a well thought out design that considers these factors in order to achieve higher data rates. Data compression plays a major role when multimedia applications are to be supported by a wireless network. Currently, compression standards such as MPEG-4 produce compression ratios of the order of 75 to 100. The challenge now is to improve these data compression algorithms to produce high quality audio and video even at these compression rates. A way to enhance the data rates would be to employ intelligent data transfer protocols that adapt to the time-varying network and traffic characteristics.

**B. POWER MANAGEMENT**

A mobile device is small in size and use to perform a certain set of functions; its power source may not be able to deliver power as much as the one installed in a fixed device. When a device is allowed to move freely, it would generally be hard to receive a continuous supply of power. To conserve energy, a mobile device should be able to operate in an effective and efficient manner. It should be able to transmit and receive in an intelligent manner so as to minimize the number of transmissions and receptions for certain communication operations.

**C. SECURITY**

Security is a big concern in wireless networking, especially in M-Commerce and E-Commerce applications. Current wireless networks contain authentication and data encryption techniques on the air interface to provide security to its users. The IEEE 801.11 standard describes wired equivalent privacy (WEP) that defines a method to authenticate users and encrypt data between the PC card and the wireless LAN access point. In large Business enterprises, an IP network level security solution could ensure that the corporate network and proprietary data are safe. Virtual private network (VPN) is an option to make access to fixed access networks reliable. Since hackers are getting smarter, it is imperative that wireless security features must be updated constantly.

**D. MOBILITY**

One of the primary advantages of wireless terminals is freedom of mobility. Therefore, system designs must accommodate handoff between transmission, boundaries and route traffic to mobile users. All devices in a wireless network are free to move. To support mobility, an ongoing connection should be kept alive as a user roams around. A mobile host moves from the coverage of a base station to that of another one. In an ad hoc network, the topology changes when a mobile host moves, means an ongoing data communication, the transmission route may need to be recomputed to, provide for the topological changes. Since an ad hoc network may consist of a large number of mobile hosts, this imposes a significant challenge on the design of an effective and efficient routing protocol that can work well in an environment with frequent topological changes.

**E. QUALITY OF SERVICE (QoS)**

Quality of Service is a measure of network performance that reflects the network's transmission quality and service availability. For each flow of network traffic, QoS can be characterized by four parameters: Reliability, Delay, Jitter, and Bandwidth.

There are several important and it arise because of wireless networks are inherently different from wireline networks. The characteristics of Wireless network include handoff, dynamic connections, and actuating transport QoS. In a wireline environment, the application layer can normally be assured that once a connection is established it will continue to exist until it is closed whereas, in a wireless environment, connections may temporarily break during a process termed handoff. It is unlikely that handoff can take place without at least a short connection interruption. Some applications may request a low interruption frequency so that the QoS perceived by the user remains satisfactory.

For example, an application may wish to guarantee that a voice connection will not be broken more than once per minute. A low interruption frequency implies that handoffs do not occur too often. It may be more desirable to have infrequent long breaks in a video connection, rather than frequent smaller breaks.

**F. HEALTH CONCERN**

The increasing popularity of wireless networks has raised a lot of concern regarding their impact on human health. The transmission power of cellular phone is typically higher than that of wireless system such as WLANs and PANs. A cellular phone is operated at close proximity to the human brain. When used for voice calls they emit radiation for entire duration of the call. A lot of time will have to pass before we possess such knowledge on health concerns regarding wireless network. Networks should be designed to minimize the power transmitted by network devices. For infrared (IR) WLAN systems, optical transmitters must be designed to prevent vision impairment.

**4. CONCLUSION**

In this paper describes the various challenges available in the wireless Network. We first presented an overview groups wireless network based on coverage range. Then We presented an overview of a challenges of the wireless network like Data rates, mobility, power management, security and the quality of service and health Concern of wireless networks .The popularity of wireless networks growing at a exponential rate, the data rate enhancements, minimizing size, cost, low power networking, user security and the best requirement to obtain the required QoS problems becomes more challenging. Wireless networks are rapidly becoming popular, and user demand for useful wireless applications is increasing.

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Looking forward an appropriate consideration.

With sincere regards

Thanking you profoundly

**Academically yours**

Sd/-

**Co-ordinator**

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