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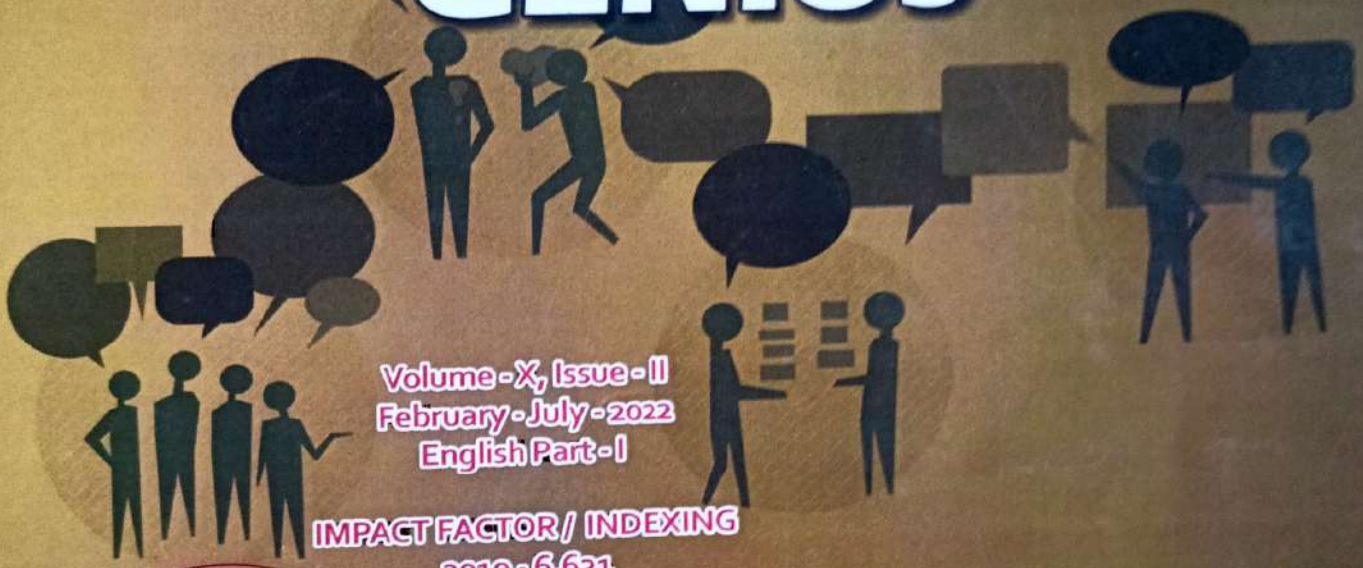

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# 23. Modern Trends in Wireless Technologies in Academic Libraries

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**Abstract**

This paper elaborates the Wi-Fi Technology in detail about the components, functions, area of applications, Security Measures of Wi-Fiand its advantages & Disadvantages. Now a day wireless Networks focus on networking and user aspects, the major application of Wi-Fi implementation in libraries is limited to information management.

**Keywords:** Wi-Fi technology, ICT, Security Measures, local area network, access point

**Introduction**

In a digital era the convergence of information and communication technologies (ICTs) enabling almost seamless access, in the expanding digital space, to vast and varied information and knowledge sources from anywhere, at any time. The spread of telecom facilities—wireless technology and cellphone—into rural areas is enabling rural traders and others to obtain market information for their products, to contact village and/or taluqa and district officials, not only to get information but also to obtain certificates and other documents. However, the spread of wireless technologies, especially cell phones, has been rapid. New areas and new groups of users are able to access ICT services including wireless local area networks, and long-range wireless links in libraries and information centre's.

**What Is Wi-Fi Technology?**

Wireless technology is an alternative to wired technology, which is commonly used, for connecting devices in wireless mode. Wi-Fi (Wireless Fidelity) is a generic term that refers to the IEEE 802.11 communications standard for Wireless Local Area Networks (WLANs).

Wi-Fi is wireless technology gives connections to the Internet and Intranet using low power radio waves. Wi-Fi network connects computers to each other, to the Internet, and to the wired network. LANs have been available since the late 1980s, but the market remained immature due to dearth of standards and predominance of incompatible proprietary solutions. By definition, LANs are local in terms of networking technology and thus involve none of the