

# **Abstract**

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## **New Protocol Design for Wireless Networks Security**

This paper investigates a number of security protocols, which are used in wireless networks. Security protocols like Wired Equivalent Privacy (WEP), WEP2, Wi-Fi Protected Access (WPA) &#97;&#110;&#100; WPA2, which are protocols developed mainly to work within the IEEE 802.11 standard. Analysis of the protocols advantages &#97;&#110;&#100; disadvantages are introduced (vulnerabilities &#97;&#110;&#100; problems), from the encryption &#97;&#110;&#100; decryption point of view. A number of measures are proposed to counter most of the known vulnerabilities that face the wireless networks security today. The proposed measures can be used in a number of security related fields