Handoff Latency Minimization by using Access Point by GPS using Selective scanning

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Abstract

Due to rapid growth in IEEE 802.11 based Wireless Local Area Networks (WLAN), handoff has
become a burning issue. A mobile node (MN) requires handoff when it travels out of the coverage area of its current access point (AP) and tries to associate with another AP. But handoff delays provide a serious barrier for such services to be made available to mobile platforms. Different works have been done to reduce the handoff delay. In this paper, we have also proposed a method to reduce handoff latency for IEEE 802.11 wireless networks with map based on GPS. IEEE 802.11 uses 11 possible channels of 14 of which only the channels 1, 6 and 11 do not mutually overlap. Using these channels and 8 others by selective scanning here we have reduced the handoff off delay and later the authentication as well as re-association delay.

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Handoff Latency Minimization by using Access Point by GPS using Selective scanning

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Index Terms

Computer Science Wireless Communications

Keywords

Next Generation Wireless Systems (ngws) Handoff Bs (base Station) Mn (mobile Node) Rss (received Signal Strength)
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