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| Title | Seamless Multimedia Communication Applications using Location Tracking Platform on IPv6 Network |
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| Abstract |  |
| Due to significant popularity of Location-based Services and Multimedia communication over mobile devices, many research has been conducted to extend the features of location tracking and make it cost-effective to users. This paper focuses on the performance of an indoor location tracking system on IPv6 Network Island with multiple real time applications that has location assisted session transfer feature for mobile users. RSSI (Received Signal Strength Indicator) mechanism has been used to locate the moving nodes and calculate the nearest neighbor of each node. The developed location tracking server monitors dynamic and centralized MySQL database management system. SIP (Session Initial Protocols) user agent has been used to deploy intercommunicating of multimedia data such as; video and audio conference, text messaging among the moving nodes and user are able to transfer the multimedia sessions seamlessly to their nearest mobile node which will be determined by the Location Server. This paper discussed seamless performance of SIP during the session transference nodes and the variation of location tracking results on different indoor surroundings. The developed project is cost-effective and precisely conducive for the industries or any indoor organization. The prototype of the project has been successfully developed and has been tested as well. The results show the seamless connectivity of the multimedia application during session switching and the performance of location tracking method on different circumstances in an indoor environment.  |