Proposal of an Intelligent Surveillance Algorithm for Scatternet Network

Abstract

Bluetooth, a short range communication technology to replace peripheral cables, has grown steadily and includes a variety of wireless applications. The Bluetooth protocol operates on a wide variety of mobile and wireless devices and is nearly present everywhere. Several attacks exist that successfully target and exploit Bluetooth enabled devices. This paper presents the design of a network intrusion detection system using Bluetooth scatternet for discovering malicious traffic for surveillance. Several Bluetooth enabled devices are internet worked to form scatternet and developing the secure network is an important issue in the scatternet formation. This paper also proposes an Intelligent Surveillance algorithm (ISA) to make the scatternet network secure. The aim of the proposed network is to present a security integrated system that ensures the detection of the intruder which enters the scatternet network. The experimental results show that the system can significantly improve the overall security of the scatternet network.

References


Index Terms

Computer Science
Communications
Keywords
Piconet  Scatternet  Surveillance  Intelligence Algorithm