Abstract

Cognitive wireless mesh networks (WMNs) are an emerging technology that has made rapid changes in the communication world. A wireless mesh network consists of mesh routers and mesh clients, in which mesh clients are highly mobile; due to this it should transmit continuous signaling messages to the gateway for their location registration. By transmitting signaling messages continuously, more bandwidth is utilized so the overall performance of the network will be degraded. To overcome this problem, we are introducing a new concept called clustering, which includes both static and dynamic clustering for mesh routers and mesh clients. By using these clustering algorithms, we can reduce the signaling messages, so the overall network performance will be increased.
Cluster based Routing Protocol for Cognitive Radio Wireless Mesh Networks

References

Index Terms

Computer Science

Wireless

Keywords

Wireless mesh network (WMN)  static clustering  dynamic clustering  mesh router

(mesh)

client (MC)

cluster head (CH)

gateway (GW).