Abstract

Cognitive wireless mesh networks (WMN's) are an emerged technology has made rapid changes in 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

- Ian F. Akyildiz, Xudong Wang, Weilin Wang "Wireless mesh networks: a survey"; Broadband and Wireless Networking (BWN) Lab, School of Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA January 2005

**Index Terms**

Computer Science Wireless

**Keywords**

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client (MC)

cluster head (CH)

gateway (GW).