Cluster based Routing Protocol for Cognitive Radio Wireless Mesh Networks

Abstract

Cognitive wireless mesh networks (WMNs) 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.
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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).