Abstract

In local communities, there exists a tendency to increase dependability on Wireless Mesh Networks, WMNs, as an appealing access network infrastructure, where municipalities and local communities would try to encourage information sharing and knowledge dissemination. However, WMNs are prone to different kind of threats such as disinformation and alteration, on one side, and their security would be overseen by local governments and citizens, on another side. This paper presents a new scheme to control access to WMNs based on semantic web techniques where information about people is available on the network for others, and people have knowledge of each other within their communities.

References

2. IEEE 802.11s Task Group, Amendment: ESS Mesh Networking, D3.0.


Index Terms

Computer Science
Wireless

Keywords

Wireless mesh networks, Access control, semantic web, trust network, Trust ontology.