Abstract

Wireless sensor networks can be used by various applications such as surveillance, forest management, weather prediction, Avalanche land-slide prediction, road safety, marine movement control, etc. These applications pose a set of common difficulties. Specifically, in the remote large-scale networks, network topology, security, self-configuration, connectivity, maintenance, power management, time synchronization etc. are major challenges. In this paper we present an overview of issues related of wireless sensor networking. Different aspects of sensor networking are discussed and sensor network architecture is proposed that can
satisfactorily overcome these problems.

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**Index Terms**

Computer Science

Communications

**Key words**

Power management

QOS

Security

Time Synchronization

WSN