Abstract

wireless networks of low-power sensing devices are poised to become a ubiquitous part of the computing landscape. In sensor network security, an important challenge is the design of protocols to bootstrap the establishment of a secure communications infrastructure from a collection of sensor nodes, which may have been pre-initialized with some secret information but have had no prior direct contact with each other. Sensor nodes should be resilient to attacks. Since sensor nodes are resource constrained and run on battery, energy consumption should be low to make it operate for many days. In this paper we propose an energy efficient secure framework that proves the authentication, Integrity, and also provides secure communication among sensor nodes by using public key algorithms.

**Index Terms**

Computer Science

Wireless Networks
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Sensor Network

attack

RSA