

A survey of security issues in wireless sensor networks.

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A Survey of Security Issues In Wireless Sensor

[Yong Wang](#), *University of Nebraska - Lincoln*

[Garhan Attebury](#), *University of Nebraska - Lincoln*

[Byrav Ramamurthy](#), *University of Nebraska - Lincoln*

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Abstract

Wireless Sensor Networks (WSNs) are used in many applications and health-related areas. These applications often include the information such as enemy movement on the battlefield or the building. Security is therefore important in WSNs. However, WSNs have constraints, including low computation capability, small memory resources, susceptibility to physical capture, and the use of insecure communication channels. These constraints make security in WSNs a challenging task. In this article we present a survey of security issues in WSNs. First we discuss the security requirements, and attacks with their corresponding c

We then present a holistic view of security issues. These issues are categorized into five categories: cryptography, key management, secure routing, secure intrusion detection. Along the way we highlight the advantages of various WSN security protocols and further compare and evaluate them on each of these five categories. We also point out the open research subarea and conclude with possible future research directions.

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