

LEACH防御HELLO泛洪攻击的方案研究

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基金项目：

摘要：

本文针对LEACH最容易受到HELLO泛洪攻击的特点，在对HELLO泛洪攻击进行深入分析的基础上，提出了一种有效防御攻击的方案。该方案在LEACH的基础上增加了链路双向性认证和节点身份认证机制，并结合了现有的EBS密钥管理方案，具有能耗低，安全性高，可扩展性好等特点，并且对HELLO泛洪攻击有较好的防御作用。

关键词：密钥管理；链路双向性认证；身份认证；安全

Research on the scheme that LEACH resist HELLO Flooding attack

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Abstract:

Aiming at the truth that LEACH can be attacked easily by HELLO Flooding, the text bring forward an effective defense scheme under the analyse to HELLO Flooding. The scheme append a mechanism which contain authentication about the bidirectional link and identity of the node to LEACH, and combine with the existing key management scheme EBS. The scheme which can resist the attack of HELLO Flooding effectively have the trait about low energy consume, high security and good expansibility.

Keywords: key management; the bidirectional link authentication; identity authentication; security

投稿时间：2011-08-24

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