

## 一种基于LEACH协议的无线传感器网络路由算法

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摘要:

无线传感器网络路由技术是当今国内外研究的重点和热点,其设计的首要目标是提高能量有效性,延长网络生命周期。论文结合前人研究的成果,针对特定的网络应用环境,对LEACH协议路由算法的进行了改进。理论分析及仿真结果表明,改进后的路由算法比原LEACH协议路由算法系统整体能耗降低,网络生命周期和吞吐量显著提高,并且网络扩展性能更好。这对于可靠性有特殊要求的应用场合具有一定的实用价值。

关键词: 无线传感器网络; 路由算法; LEACH; S-LEACH

## A new LEACH-based routing algorithm for wireless sensor networks

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**Abstract:**

Routing protocol is the popular and point which studies at home and abroad nowadays,the all-important aim of its design is to reduce the overall energy dissipated in the network and to maximize the network lifetime.In this thesis,former research work has been studied.LEACH routing protocol was choosed as the research target by analyzed,and is brought forward according to the special kinds of network environment.The analysis and simulation results indicate that improved routing algorithm compared with LEACH:the overall low consumption,network life cycle extended,thruput increased,and better network scalability.This is very useful in case of some networks that have special requirement on reliability.

**Keywords:** wireless sensor network;routing protocol; LEACH; Specifically-LEACH

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