基于网络层次分析法的无线自组网性能评估指标研究

作　者：赵锋,郭爱煌

单　位：上海市同济大学电子与信息工程学院

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摘　要：

为避免无线自组网中评估指标体系过于庞大，评估过程过于复杂，通常可以采用建立评估指标体系的方法简化指标。本文将网络层次分析法，应用于无线自组网性能评估，分析性能指标间的相关性，并采用极大不相关法，有效地简化了指标体系，建立了无线自组网性能评估指标体系。仿真结果和数据分析表明：网络层次分析法有效解决了指标复杂的问题，确保了评估的科学性和准确性。

关键词：无线自组网；性能评估指标体系；网络层次分析法；相关性；极大不相关法

The Research of Wireless Ad Hoc Networks Evaluation Index System Based on ANP

Author's Name:

Institution:

Abstract:

The establishment of evaluation index system is a common assessment method to solve the complex problems. In order to avoid that wireless Ad Hoc networks index system is too large and the evaluation process is too complex, the establishment of evaluation index system is a common assessment method to simplify them. In this paper, ANP is proposed in Ad-Hoc to analyze the indicator correlations. Infinite irrelevance is introduced to simplify the index system, what's more, the evaluation index system based on Ad Hoc network is established finally. The simulation results and data analysis show that: it effectively solves the indicators which are complex and ensures the assessment of scientificity and accuracy.

Keywords: Ad Hoc; performance evaluation index system; ANP; indicator correlations; infinite irrelevance

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