

网络、通信、安全

基于相容粗糙-模糊集的电力通信网风险评估

高会生, 冯力娜

华北电力大学 电子与通信工程系, 河北 保定 071003

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摘要 鉴于电力通信网风险因素的复杂性和不确定性以及评估数据的模糊性问题, 在对其分析的基础上, 提出运用相容粗糙-模糊集对电力通信网进行风险评估的方法。通过建立电力通信传输网风险评估模型, 利用该方法对某地电力传输网的实际数据进行分析, 求出每一个相容类属于不同风险等级的可能值, 得到客观的风险评估规则。结果表明该方法有效可行, 对风险管理具有一定的指导意义。

关键词 [相容粗糙-模糊集](#) [风险评估](#) [粗糙集](#) [电力通信网](#)

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Risk evaluation of electric power communication network based on tolerant rough-fuzzy set

GAO Hui-sheng, FENG Li-na

Department of Electronic and Telecommunication Engineering, North China Electric Power University, Baoding, Hebei 071003, China

Abstract

Owing to the complexity and the uncertainty of risk factors of electric power communication network, as well as the fuzziness of data, it has given the risk evaluation method of the electric power communication network based on tolerant rough-fuzzy set after analyzing the problem. The risk evaluation model of the electric power transmission network has established, and after analyzing the actual data using this method, the possibilities of each tolerant class belonging to the different decision-making class are determined and objective risk evaluation rules are obtained. The results indicate that this method is effective and feasible, and it has certain guiding sense to the risk management.

Key words [tolerant rough-fuzzy set](#) [risk evaluation](#) [rough set](#) [electric power communication network](#)

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通讯作者 高会生 fengln82@163.com

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