大数据分析技术的无线通信网络安全风险预测

庄海燕

(铁道警察学院，河南 郑州 450053)

摘　要：当前无线通信网络安全风险预测模型存在误差大，预测耗时长等缺陷，为了提高无线通信网络安全风险预测精度，加快无线通信网络安全风险预测速度，提出了基于大数据分析技术的无线通信网络安全风险预测模型.首先采集无线通信网络安全风险预测历史数据，然后采用大数据分析技术建立无线通信网络安全风险预测模型，最后进行时了无线通信网络安全风险预测仿真实验，结果表明，本文模型的无线通信网络安全风险预测精度高，预测误差远远小于其它无线通信网络安全风险预测模型，加快了无线通信网络安全风险预测速度.

关键词：无线通信；网络安全；风险预测；大数据分析

Network based on big data analysis technology

ZHUANG Hai-yan

(Railway Police College, Zhengzhou 450053, China)

Abstract：The current wireless communication network security risk prediction model has some shortcomings, such as large error and long prediction time. In order to improve the accuracy of wireless communication network security risk prediction and accelerate the speed of wireless communication network security risk prediction, a wireless communication network security risk prediction model based on large data analysis technology is proposed. Firstly, the historical data of wireless communication network security risk prediction are collected, and then the security risk prediction model of wireless communication network is established by using large data analysis technology. Finally, the simulation experiment of wireless communication network security risk prediction is carried out. The results show that the security risk prediction accuracy of wireless communication network based on this model is high and the prediction accuracy is high. The measurement error is far less than other wireless communication network security risk prediction models, which accelerates the speed of wireless communication network security risk prediction.

Key words：wireless communication; network security; risk prediction; large data analysis

作者简介：

庄海燕　女，(1976-)，硕士，副教授.研究方向为电子数据取证、数据分析.

E-mail：zhuanghaiyan@rpc.edu.cn