

电力操作票系统设计与实现

摘 要

就目前使用的操作票系统，在数据传输方面普遍存在着传输性能低，灵活性差的缺点。本文针对电力操作票此传输过程中的缺陷，在已有的操作票系统上重新进行设计开发，使其具备更加灵活的数据传输性能。它很好的解决了传统操作票系统传输数据过多导致的传输卡顿，时延较大的问题，同时也大大的增加了传输介质的多样性而不局限于以太网，无线通信技术。由于此操作票系统使用的数据压缩方法同时满足北斗卫星数据传输的规则，即使在没有有线无线网络的时候也可以将操作票发出。此操作票系统开发使用 Python 语言，同时运用了 Python 中的图形化编程设计并实现了界面化操作。通过后期的实际操作证明，此操作票系统传输速度快，时延小，资源占用低，准确度高，可以大大提高操作员的工作效率。

关键词：操作票；序列化存储；Python；Socket；Python 界面化编程

ABSTRACT

As for the power ticket system currently used, there are generally disadvantages of low transmission performance and poor flexibility in data transmission. This paper aims at the defects in the transmission process of power power ticket, and redesigns and develops on the existing power ticket system to make it have more flexible data transmission performance. It solves the problems of transmission jams and large delays caused by excessive data transmission in the traditional power ticket system. At the same time, it also greatly increases the diversity of transmission media and is not limited to Ethernet and wireless communication technology. Since the data compression method used by this power ticket system also satisfies the Beidou satellite data transmission rules, the power ticket can be issued even when there is no wired or wireless network. This power ticket system is developed using Python language, and at the same time, the graphical programming in Python is used to implement the interface operation. Proved by the actual operation in the later period, this power ticket system has fast transmission speed, small delay, low resource occupation and high accuracy, which can greatly improve the operator's work efficiency.

Keywords: Power ticket;Serialized storage;Python;Python Interface programming

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