

农业移动终端无线数据传输技术 Wireless Data Transmission Technology for Mobile Agriculture Terminal

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摘要: 针对农业信息采集与传输的特点, 基于TCP/IP协议研究了移动式农业信息智能服务系统的数据管理和传输方法, 设计了移动终端与上位机之间的计算机网络应用层无线数据传输协议, 研究了数据传输形式、传输格式和传输内容。初步应用表明, 该协议适用于移动式农业信息智能服务系统, 并具有一定的通用性和扩展性。应用层协议标准化有利于实现农业信息的共享。The method of data management and transmission for the mobile and intelligent agriculture information service system is studied, and the application layer protocol for wireless data transmission between the mobile terminal and the upper computer is designed based on the TCP/IP. The type, format, and content of the wireless data transmission are studied. The application layer protocol considers the collection and transmission characteristics of agricultural information. Initial applications indicate that the application layer protocol is suitable to the mobile and intelligent agriculture information service system, and has certain versatility and expansibility. The application layer protocol standardization is advantageous in sharing agricultural information.

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