科技成果

智能种植系统：利用物联网技术改善家庭植物养护

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摘　要：本论文研究了智能种植系统的设计与实现，通过物联网技术将家庭植物养护变得更加智能化和便捷化。通过传感器采集植物生长环境数据，实现对植物养护过程的实时监测和调控。通过智能算法对采集的数据进行分析和处理，为家庭植物提供个性化的养护方案。通过远程控制设备，实现对植物的远程监控和养护，使用户可以随时随地了解植物的生长状况。本系统不仅提高了家庭植物的存活率，还提升了用户的养护体验，为家庭植物养护带来了更多的便利性和智能化。

关键词：智能种植系统；物联网技术；家庭植物养护；传感器；控制器

Smart Planting System: Enhancing Household Plant Care Through IoT Technology

Abstract: This paper studies the design and implementation of intelligent planting system, and uses the Internet of Things technology to make home plant maintenance more intelligent and convenient. Environmental data of plant growth is collected by sensors to realize real-time monitoring and regulation of plant conservation process. The collected data were analyzed and processed by the intelligent algorithm to provide personalized conservation schemes for family plants. Through the remote control equipment, the remote monitoring and maintenance of plants are realized, so that users can understand the growth status of plants anytime and anywhere. This system not only improves the survival rate of family plants, but also improves the maintenance experience of users, bringing more convenience and intelligence for family plant maintenance.

Keywords: Intelligent planting system, Internet of things technology, Home plant maintenance, Sensor, Controller