

Research on improving the performance of IPv6 routing protocol for wireless sensor networks

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Abstract: This topic focuses on improving the performance of the IPv6 routing protocol in wireless sensor network systems, meeting the increasing demands for connectivity and data management in natural environments. The objective is to build an experimental solution to optimize the information exchange process between sensor nodes. The research method is based on a combination of routing theory and practical experiments, aiming to improve the reliability and efficiency of data transmission. The expected results of this topic not only contribute to the field of network technology but also open up many application opportunities in environmental monitoring and resource management.

Keywords: IPv6 routing protocol, Wireless sensor network, Performance optimization