

Research and performance evaluation of IPv6 routing protocol for wireless sensor networks

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Abstract: In the context of the rapid development of wireless sensor technology, this topic aims to study and evaluate the performance of the IPv6 routing protocol in sensor network environments. The objective of the research is to improve the quality of service and reliability of sensor network systems by optimizing routing protocols. The approach includes both theoretical analysis and experimentation to assess the performance of IPv6 in wireless environments with characteristic challenges. The expected results contribute to enhancing the understanding of how to use IPv6 in sensor networks and aim toward practical applications.

Keywords: IPv6 routing protocol, wireless sensor network, performance, optimization, theoretical research