

Research on the 6LoWPAN protocol in IoT

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Abstract: In the context of the strong development of IoT, optimizing data transmission networks for energy-constrained devices is an urgent issue. This topic focuses on researching and evaluating the performance of the 6LoWPAN protocol in IoT environments, aiming to address the problems of low bandwidth and limited energy. Through theoretical analysis and practical experimentation, the goal is to build a more efficient IoT network system. The expected results of this research will provide a scientific basis for deploying sustainable IoT applications.

Keywords: 6LoWPAN, IoT, network protocol, limited energy