

Research and deployment of link quality estimation algorithms in wireless sensor networks based on the Zolertia Z1 platform

Cao Văn Minh

Abstract: This topic proposes a solution to evaluate signal quality in wireless sensor network systems using the Zolertia Z1 platform. The problem context includes the need to improve data transmission accuracy and enhance network performance. The objective of the research is to develop a signal quality evaluation algorithm based on technical parameters collected from sensor nodes. The method combines theory and experimentation to build, test, and optimize the algorithm. The significance of the topic lies in providing a solution to support more effective management of wireless sensor network performance.

Keywords: wireless sensor network, signal quality assessment algorithm, Zolertia Z1