

Research on Zigbee/IEEE 802.15.4 communication standard and development of an application for health monitoring and assessment via temperature and heart rate

Nguyen Thi Ngoc Han

Abstract: This topic aims to examine the Zigbee/IEEE 802.15.4 communication standards in the practical context of remote health monitoring. The main objective is to develop an application system capable of collecting and analyzing data on temperature and heart rate, in order to support medical professionals in the patient monitoring process. The research methodology combines theoretical and experimental approaches to ensure the effectiveness of the solution. The expected outcome is a reliable system that can be widely applied in the healthcare field.

Keywords: Zigbee, IEEE 802.15.4, remote health monitoring, temperature, heart rate