

Abstract Details

Title: Data Acquisition System

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Abstract: Engineering and natural science today highly depends on large sets of data which are usually collected, processed and stored for later usage. In order to create a data acquisition (DAQ) system, two main questions must be answered: how to provide adequate and optimal system for data collection, and how to analyze and process large data sets. An answer can be found in applying a new concept - Internet of Things (IoT) and the well-known data mining techniques which together represent a DAQ system that can be successfully implemented in educational research. Therefore, this paper proposes a DAQ system, based on low cost hardware, IoT principles and open source and freely available data mining tools, what enables its widespread usage in educational research.

Keywords: Internet of Things (IoT), Data Acquisition System, Sensor.