Abstract

Recently, the water resource becomes the most important conditions for living in safe. This is due to the shortage in groundwater, river resources and rain level. This project design a complete sensor network structure to monitor the water levels and water quality of the considered water well-field and the consumed electrical power of the installed pump. The utilized sensors use the energy saving techniques and allocate the controller sensor to work as a PAN coordinator. The designed structure has been implemented and tested using MIXIM framework under the environment of OMNET++ simulator. The obtained results from the simulator appear the efficient of the system in monitoring the wells factors.

References


**Index Terms**

Computer Science Wireless

**Keywords**

wireless sensor network, wells field, OMNET++.