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

Wireless Sensor Network structure for Ground water Well’s Field in Karbala City


Index Terms

Computer Science Wireless

Keywords

wireless sensor network, wells field, OMNET++.