VISVESVARAYA TECHNOLOGICAL UNIVERSITY

A PROJECT REPORT
on

AN ENERGY EFFICIENT ROUTING PROTOCOL FOR HETEROGENEOUS WIRELESS SENSOR NETWORK

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for the award of the degree of

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in
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by

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ABSTRACT

Heterogeneous Wireless Sensor Network (HWSN) consists of sensor nodes with different ability, such as different computing power, memory and sensing range. The project is based on HWSN consisting of randomly placed lower end sensor nodes and fixed higher end sensor nodes. Developing an energy-efficient routing protocol has a significant impact on the overall lifetime and stability of the sensor network. We propose to implement two efficient routing algorithms. One algorithm discovers and maintains the routes between the lower end sensor nodes and higher end sensor nodes. The other algorithm facilitates communication between higher end sensor nodes and base station.