

SAPTHAGIRI COLLEGE OF ENGINEERING

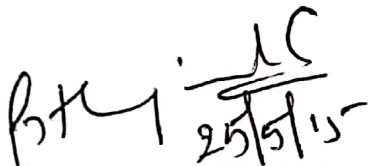
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Department of Computer Science and Engineering

Certificate



Certified that the project work entitled "Dynamic Routing for Data Integrity and Delay Differentiated Services in Wireless Sensor Networks" carried out by RAJU H (1SG11CS064), SATYAM KUMAR (1SG11CS072), VASANT RAINA (1SG11CS091), AMIT DEVGAN (1SG10CS007), bonafide students of this institute, in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2014-15. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.


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ABSTRACT

Applications that run on the same Wireless Sensor Network (WSN) platform generally are available with different Quality of Service (Quality of Service) requirements. The two common necessities are low delay and high data integrity. In most situations, these two requirements have not satisfied simultaneously. In this project, considering the concept of potential in physics, a multi-path dynamic routing algorithm(IDDR) is used in order to resolve this conflict. By constructing a virtual hybrid potential field, IDDR separates packets of applications with different quality of Service requirements. According to the weight assigned to each packet, and routes them towards the sink through different paths to improve the data fidelity for integrity-sensitive applications and simultaneously reduce the end-to-end delay for delay-sensitive ones.