



In Collaboration with
University of Westminster

Enhanced Quality of Service of Public Resource Computing as Infrastructure for EDGE Computing.

A dissertation by
Mr.W.Y.S. Nayanajith
UOW ID - W1698299
IIT ID - 2017297

Supervised by
Mr. Sharmilan Somasundaram

Submitted in partial fulfilment of the requirement for the

**MSc Advanced Software Engineering at
The University of Westminster.**

August 2021.

©The copyright for this project and all its associated products resides with
Informatics Institute of Technology.

Abstract

Public Resource Computing were able to produce massive computational power under the minimum cost. Which is equivalent to super computers. In the most of the case this computer paradigm was used for the scientific calculations. In the recent there were some suggestions to use such paradigm for in favour of EDGE computing.

But considering Public Resource Computing there are many challenges. Encourage people to volunteer their computing resources to the volunteer grid, data security, distributing mechanism, volunteer node user experience is few of them.

In this project try to fix some challengers and issues regarding user experience and volunteer node battery life. In this document contains the detailed discussion about the overall concept, approach and evaluation.