UNIVERSITI TEKNOLOGI MARA

TECHNICAL REPORT

ANALYSIS OF PERCENTAGE VEHICLES
USING LAGRANGE INTERPOLATING METHOD

NURUL AIN BINTI NORDIN
2014408122   K15/17
NORFATIN BINTI MOHAMAD
2014458024   K15/17
ZURDIA ATIRAH MASTIKA ZAINI
2014855918   K15/17

Report submitted in partial fulfillment of the requirement
for the degree of
Bachelor of Science (Hons.) Mathematics
Center of Mathematics Studies
Faculty of Computer and Mathematical Sciences

JULY 2016

ACKNOWLEDGEMENTS

IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

TABLE OF CONTENTS

ABSTRACT

In determining an efficient traffic flows, the factors that bring about to this issue classified into the road, human behavior, vehicles and modernization of the area. the country of Wellington, New Zealand is one of the world worst areas that reported confronting traffic jammed particularly in the morning has been choose as our location study. This study focus on the increment number of vehicles that cause traffic jammed to occur. Disappointment methodology advancement arranging road structure as per the expanding in the quantity of vehicles cause unpredictability in taking care of the issues. A method for expanding pattern of the quantity of vehicles which have been used is Lagrange interpolating method. This method is able to assess the number of vehicles for any time during the year 2014. And at the end of the study, a comparison is made between the actual data and the data expected to see the level of accuracy.

Keywords - Lagrange Interpolating, level of accuracy, actual, approximate

1 INTRODUCTION

1.1 INTRODUCTION

Stuffing in biggest city, movement clog has turned into an image of the nation's insufficiency to stay aware of its energetically developing populace. It has been one of real issues that most cities are confronting and activity stream trademark demonstrates dynamical change at various times of the day. This change because of the movement clog, for example, driver's states of mind out and about, an excessive number of autos for the roadway, snags in the street bringing on a blockage and merger like breakdowns and wreck, episode, refuse dump, street development and mischance and the absence of unique paths. Thus, the street may be crowded with vehicles and may prompt activity stuck. To manage these issues, Lagrange Interpolating polynomial ought to be create to unravel that swarmed vehicles out and about since Lagrange Interpolating polynomials give no mistake gauge and a thoughtfully clear technique for figuring them.

First, factor that caused traffic congestion is driver's attitudes on the road. The country that dense population which use public transport for the daily commute or just to get around such as buses, trains, taxi and more. On special meeting with the agencies, the heavy load owners such as buses, trucks and rickshaw-pullers drivers are those who disobedient on governments attempt. The alleged involement of politicians in collecting of billion-taka toll to these heavy load owners, they were often blamed partially for the disorganized traffic in the past. In this respect, attendant government's advisers were believed to be clean but still no improvement detected in the traffic situation. Stopping the buses, picking up, and droping the passengers at any point, even in the middle of the road are the bad habits of the public buses. The drivers park buses in an unsystematic manner cause to traffic jammed and uneven movement at the bus stoppages. Moreover, the buses drivers do always pass other vehicles from the wrong side. Under the Motor Vehicles Act (MVA), over 95 percent of the buses using on different routes do

1