



PROJECT REPORT
Conversion of Pixels of an Image Into
Latitude and Longitude Coordinates

Robertus Yogastya Ajitama

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INFORMATICS ENGINEERING DEPARTMENT
FACULTY OF COMPUTER SCIENCE
SOEGIJAPRANATA CATHOLIC UNIVERSITY

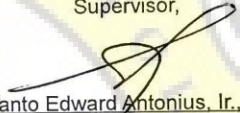
APPROVAL AND RATIFICATION PAGE
PROJECT REPORT

Conversion of Pixels of an Image Into Latitude and Longitude Coordinates
by
Robertus Yogastya Ajitama – 11.02.0013


This project report has been approved and ratified by the Dean of Faculty
of Computer Science and Supervisor on July 14th, 2016

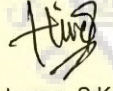
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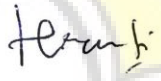
Supervisor,

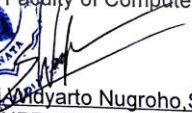

Suyanto Edward Antonius, Ir., M.Sc
NPP : 058.1.1992.116

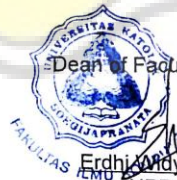
Examiners,


1.) Shinta Estri Wahyuningrum, S.Si, M.Cs
NPP : 058.1.2007.272


2.) Hironimus Leong, S.Kom., M.Kom
NPP : 058.1.2007.273


3.) Rosita Herawati, ST., MIT
NPP : 058.1.2004.263


Dean of Faculty of Computer Science,


Erdhi Widyarto Nugroho, ST., MT
NPP : 058.1.2002.254

STATEMENT OF ORIGINALITY

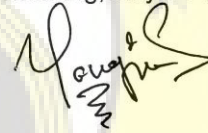
I, the undersigned:

Name : Robertus Yogastya Ajitama

ID : 11.02.0013

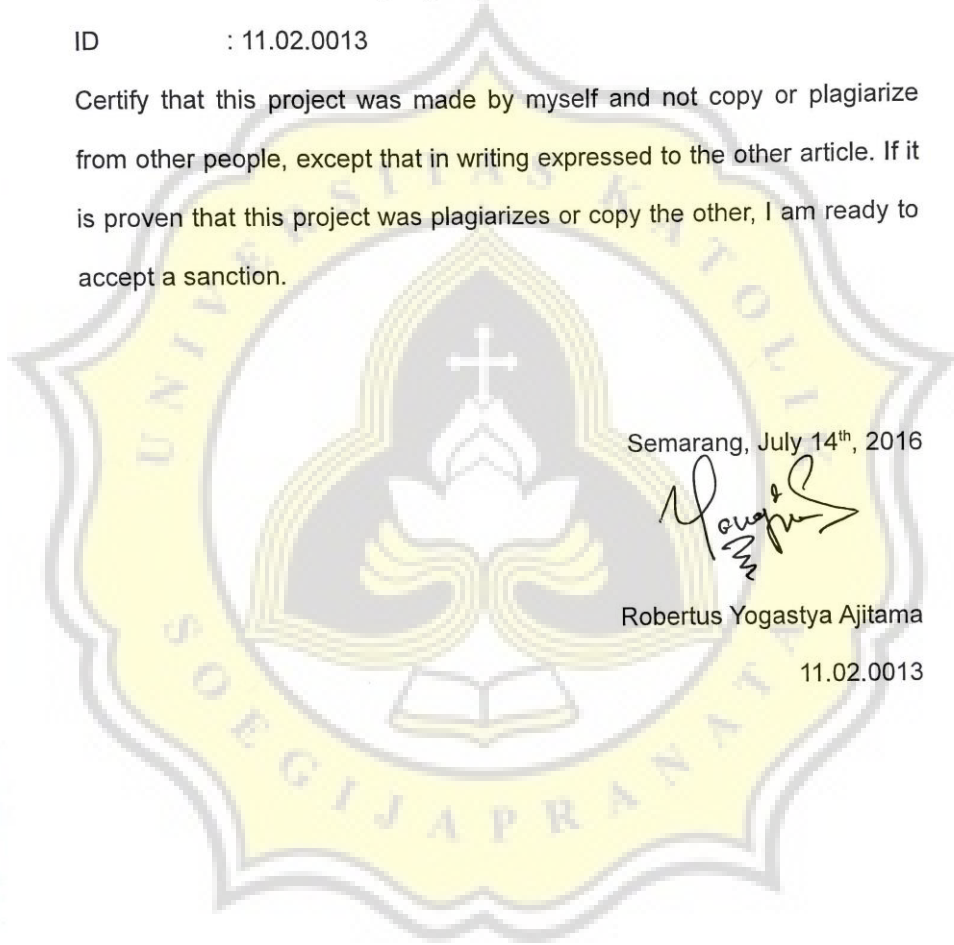
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Robertus Yogastya Ajitama

11.02.0013



ABSTRACT

Abstract – In Geographic Information System, spatial data are very important to determine location and position. People can get spatial data such as latitude and longitude by using map application, for example google maps. But to run google maps or another similar map application, the user need some internet connection and GPS satellite. That is why it needs a solution that can help some user who have no internet connection. One solution that can be reached is by converting the pixels of an map image into latitude and longitude coordinates. So that the user can get position without internet connection and GPS satellite.

This program has been made using PHP programming language and scale formula. Firstly, using pixels of an image to determine the x and y coordinates. After x and y coordinates founded, the scale formula will convert its coordinates into latitude and longitude coordinates.

Keywords: *GIS, Geographic Information System, Conversion of an Image Pixels into Latitude and Longitude, Scale Formula.*

PREFACE

This project report, entitled: Conversion of Pixels of an Image Into Latitude and Longitude Coordinates are contains some chapters, Chapter I contains the background of the issues that I choose, the problems that exist in this project and the purpose of this project. Chapter II contains an explanation of the scales that I choose to make this project together with the programming language that used.

Chapter III contains about how the methodology and the plans that I made to complete this project. Chapter IV describes the course of the program and the design that created for this project. Chapter V describes the implementation of this project, explain each piece of the program code that became the core process of this project, and displays the results of the series of testing that conducted for the program that created. And Chapter VI contains the conclusions that obtained from this project and the advice that given from the author to the readers who want to develop this project.

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