



PROJECT REPORT  
Travelling Salesman Problem Assisted WITH TABU  
SEARCH ALGORITHM  
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10.02.0024  
2014

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**APPROVAL AND RATIFICATION PAGE**

**PROJECT REPORT**

Travelling Salesman Problem Assisted with Tabu Search Algorithm

by

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This project report has been approved and ratified by the Dean of Faculty of Computer Science and

Supervisor on 18 July 2014

With approval,

Examiners,



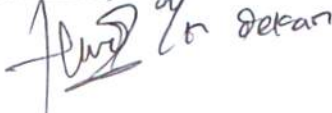
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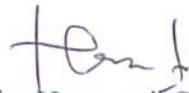
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## **STATEMENT OF ORIGINALITY**

I, the undersigned:

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Certify that this project was made by myself and not copy or plagiarize from other people, except that in writing expressed to the other article. If it is proven that this project was plagiarizes or copy the other, I am ready to accept a sanction.

Semarang, 18 July 2014

Tjeng Ricky Gunawan

10.02.0024

# ABSTRACT

*In this modern era, the TSP problem is often used as an ingredient to solve the problem. Find the shortest distance from the distance between two cities is needed in these days given the importance of time efficiency and cost of transportation in the modern era.*

*This application aims to find the shortest distance from the past some of the city taken. This application is created by saving the city in the distance and in a matrix and then processed into the tabu search algorithm.*

**Keyword : php programming, travelling salesman problem, 2 dimensional matrix array, 1 dimensional array**

# FOREWORD

Finally, I can finish my final project with title : Travelling Salesman Problem Assisted With Tabu Search Algorithm

I could not finish my thesis without the help of God and the support of close friends who have always encouraged me to finish this thesis, I thank you:

- My Lord and my savior, Jesus Christ, who gave me the faith and courage to complete this project.
- My parents who always encouraged me in making a final assignment.
- Marlon Hironimus Leong, S. Kom., M.Kom as my supervisor to assist, guide and give me ideas and suggestions in completing this project.
- Suyanto EA, Ir, M.Sc., MCS, Shinta, Estri Wahyuningrum, S.Si, Rosita Herath, ST., MIT as a lecturer at the Faculty of Computer Science for teaching me and giving me the knowledge while I studied at the Faculty of Computer Science.
- All my friends from the School of Computer Science and friends outside the Faculty who always encouraged.

Lastly, I want to apologize if I made a mistake in completing the project and wrote this report. Therefore, criticism and suggestions are expected.

Semarang, July 14<sup>th</sup> 2014

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