



Solution of The Problem of Daily Visiting Routes for Tourist Attractions By “The Travelling Salesman Problem”

* **Kadir Kaan GÖNCÜ** 

^aTrakya University, Edirne Vocational School of Social Sciences, Department of Management and Organisation, Edirne/Türkiye

Article History

Received: 26.08.2024

Accepted: 26.02.2025

Keywords

Optimization

Traveling salesman problem

TSP

Tourism

Urban

City

Abstract

In recent years, it has been observed that there has been an increase in demand for urban tourism as a result of the developments in the fields of technological, economic and communication. The city tourism, where visitors participate for a short time, aims to present all the features that make up the identity of the cities to its guests. The guests who come to the cities for daily visits to the touristic destinations leave the city again after reaching the pre-determined points. This tour process can be modelled as a classical traveling salesman problem. Although there is a large literature on the traveling salesman problem, the number of studies on daily touristic visits is limited. In this study, a problem related to the daily visit of 12 touristic destinations determined by tourism professionals for a city in Europe with a population of approximately 200.000 was examined. The problem modelled as traveling salesman problem has been solved with different heuristic methods.

Article Type

Research Article

* *Corresponding Author*

E-mail: kkaangoncu@trakya.edu.tr (K. K. Göncü)

DOI: [10.21325/jotags.2025.1559](https://doi.org/10.21325/jotags.2025.1559)