

Report on article The Travelling Salesman Problem: A Linear Programming Formulation

Radosław Hofman, *Poznań 2008*

Abstract—This article describes counter example prepared in order to prove that linear formulation of TSP problem proposed in [7] is incorrect (it applies also to QAP problem formulation in [8]). Article refers not only to model itself, but also to ability of extension of proposed model to be correct.

Index Terms—complexity class, linear programming, P vs NP, large instances.

I. INTRODUCTION

Unknown relation between P and NP [3] complexity classes remains to be one of significant non solved problems in complexity theory. P complexity class consists of problems solvable by Deterministic Turing Machine (DTM) in polynomially bounded time, while NP complexity class consists of problem solvable by Non Deterministic Turing Machine (NDTM) in polynomially bounded time. This means that DTM can verify solution of every NP problem in polynomially bounded time even if polynomial algorithm for finding this solution is unknown [16].

Significant subclass of NP problems is known as NP-complete class. Problems from this class have ability to represent any other problems from whole NP complexity class. In 1970 S. Cook presented in [2] first reduction from any NP problem to Boolean Satisfiability Problem, and two years after R. Karp proved that 21 other problems are in NP-complete class showing many-one polynomial time reductions to these problems [14]. If then anyone shows algorithm solving any NP-complete problem in polynomially bounded time then any of NP problems may be solved in no more than $O(n^c)$ steps, where n stands for instance size and c is some constant value [16].

In 2006 there appeared articles claiming to have proven that $P=NP$ formulating TSP and QAP problem in terms of linear programming ([4], [10], [5] and other). Author of this article have prepared counter example [11] for one of these article discussing inability for LP approach to solve large instances of NP-complete problems [12].

Some suggestions from [11] were taken into proposed model and counter example is not valid for new version of these models. In this article we present extended version proving flaws in extended model.

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II. MODEL LIMITATIONS

A. 3D space

Model consists of variables representing usage of flow between nodes i and j at some stage r . Example is presented below:

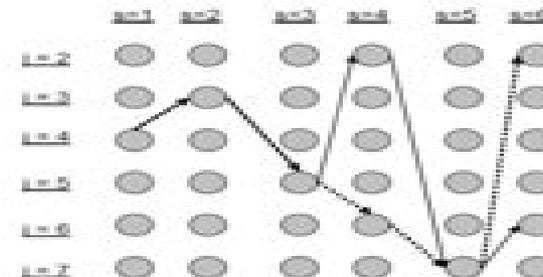


Figure 1 Example flow

Using these 3D variables (there are $O(n^3)$ variables where n is number of nodes) for linear formulation could not prevent of solutions where:

- flow splits to clusters
- within clusters flow reaches same nodes several times
- summary flow at each node is preserved

Example of flow beyond restrictions for 3D variables is presented at fig. 2.

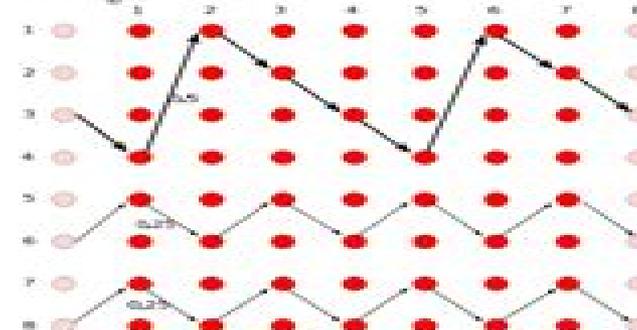


Figure 2 Flows in LP model based on 3D variables

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