Diploma Thesis Evaluation

Title: Detection of Manipulation in Economic Data Using Data Mining Techniques
Author: Abdelaziz Alashrafy Ahmed Samir Mohamed
Supervisor: RNDr. Petr Tučník, Ph.D.

Evaluative criteria	Mark			
	1	2	3	4
Goal and its definition	☒	☐	☐	☐
Theoretical seriousness	☒	☐	☐	☐
Demand on practical skills and time requirement	☒	☐	☐	☐
Methodical adequacy and its application	☒	☐	☐	☐
Logical structuring	☒	☐	☐	☐
Formal setting and requisites	☒	☒	☐	☐
Language and terminological level	☒	☒	☐	☐
Utilization of sources, citation, bibliography setting	☒	☐	☐	☐
Student´s contribution	☒	☐	☐	☐
Results utility in theory or in practice	☒	☐	☐	☐

Partial comments and suggestions:

There are some minor formatting errors present in the thesis (e.g. the list of items on page 6, titles on the bottom of pages 35, 44, table division on page 46, reference nr. 71 at references table on page 71,...). Also, there are some grammatical mistakes in the text, but overall quality of the language is satisfactory.

Questions:

Since you have co-operated with the Egyptian government, do you expect results of your work will be implemented in practice by the Egyptian authorities on some level?

Overall assessment and classification reasoning:

The main objective of the thesis was to investigate the bid rigging techniques in public procurement processes automatically, through the application of the selected data-mining approaches. Thesis is based upon real data provided in cooperation by the Egyptian government and the Egyptian International School.

Author introduces different concepts and strategies of bid rigging detection and presents diligent state of the art analysis of the topic. Especially Chapter 4 is very thorough and I consider it the best part of the work. Author used 71 references, which is more than sufficient and it is proving his understanding of the problem domain.

Author provides several examples of the bid rigging along with their description and analysis. Experimental part consists of two examples, analyzed in detail. Although, I would prefer more than two cases to be used in the experimental part, the analysis and results are presented along with resulting recommendations clearly and I believe the thesis brought some practical, applicable results. Given the importance of the selected topic and its up-to-dateness, this work can be useful contribution to the search of solutions for problems with the bid rigging in public procurement processes.

Suggested classification: excellent

Hradec Králové, 11.5.2015

_____
Signature