Text mining in students’ course evaluations: Relationships between open-ended comments and quantitative scores - DTU Orbit (03/11/2019)

Text mining in students’ course evaluations: Relationships between open-ended comments and quantitative scores

Extensive research has been done on student evaluations of teachers and courses based on quantitative data from evaluation questionnaires, but little research has examined students’ written responses to open-ended questions and their relationships with quantitative scores. This paper analyzes such kind of relationship of a well established course at the Technical University of Denmark using statistical methods. Keyphrase extraction tool was used to find the main topics of students’ comments, based on which the qualitative feedback was transformed into quantitative data for further statistical analysis. Application of factor analysis helped to reveal the important issues and the structure of the data hidden in the students' written comments, while regression analysis showed that some of the revealed factors have a significant impact on how students rate a course.

General information
Publication status: Published
Organisations: Department of Applied Mathematics and Computer Science, Statistics and Data Analysis
Contributors: Slusarenko, T., Clemmensen, L. K. H., Erbsøll, B. K.
Pages: 564-573
Publication date: 2013

Host publication information
Title of host publication: CSEDU 2013 - Proceedings of the 5th International Conference on Computer Supported Education
Publisher: SciTePress
ISBN (Print): 9789898565532
Keywords: Data mining, Extraction, Factor analysis, Multivariant analysis, Regression analysis, Surveys, Teaching, Students
Source: dtu
Source ID: n:oai:DTIC-ART:compendex/425721941::34106
Research output: Chapter in Book/Report/Conference proceeding > Article in proceedings – Annual report year: 2014 > Research > peer-review