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Discussion of class evaluation and its improvement by text mining technology: Application to the Handicrafts and Science class

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The 2nd year students of the Handy craft technology course are offered the Handicrafts and Science class. The lecture's intention is that the students get deeper understanding 4 factors, namely, originality, opinion integration, cooperation, and expression of opinions, on their own through the activities in the class. In order to evaluate the class, the evaluation by document questionnaire can be considered. Text mining technology is used in recent years to perform objective analysis by questionnaire on such a document form.

The purpose of this paper is to evaluate the effectiveness of text mining technology on this class by comparing the observed status of the students in the class with the analytic results of this class by text mining technology. The cross tabulation and the correspondence analysis by KH Coder were used for evaluation of achievement degree on the intention. The analytic results were reliable because these reflected well

the observed status of the students in the class. It shows that text mining technology is useful for the analysis of this class. According to the results using coding rule, it is shown that thinking directions of students, such as how they think about each factor, stand out. Additionally, recognition growing for the opinion integration did not deepen and they suggested the need to improve the teaching method about this factor.

Key words

text mining, class evaluation, KH coder, corresponding analysis, coding rule

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