Evaluation of Object Oriented Programming Skills of Students with respect to Trait Emotional Intelligence based on Students Performance

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Abstract

Data Mining is the exploration and analysis of large quantities of data in order to discover meaningful, trends, relationships and rules. The objective of this study is to evaluate the students' object oriented programming skills and the trait emotional intelligence (TEI) based on the performance of the individual, this study also engages how skilled a student is in programming in accordance to the factors like academics, locality and gender. The student's character was divided into five trait emotional intelligence variables using the Trait Emotional Intelligence Questionnaire (TEIQue). These variables are wellbeing, self-control, emotionality, sociability and global trait EI. Likert scale was used to measure the TEI factors. Two Data mining techniques were applied in the resultant data set, (i) Association Rule Mining and (ii) Multilayer Perceptron. In this experiment the programming skills of the students were very strong of those who scored high in self-control, sociability and wellbeing and male students from rural areas, whereas female students who had scored high in sociability achieved first class in the same. This analysis can be used to improve the students' programming skills. They know about their levels and what could be done to improve themselves.

References
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- Genetic and Environmental Correlations between Trait Emotional Intelligence and Humor Styles

Index Terms

Computer Science

Data Mining

Keywords

Association Rule Mining  Multilayer Perceptron  Tei  Programming Skills