

## **Analysis of Cooperative Learning Behavior Based on the Data of Students' Movement**

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**Abstract :** The purpose of this paper is to analyze the cooperative learning behavior pattern based on the data of students' movement. The study firstly reviewed the cooperative learning theory and its research status, and briefly introduced the k-means clustering algorithm. Then, it used clustering algorithm and mathematical statistics theory to analyze the activity rhythm of individual student and groups in different functional areas, according to the movement data provided by 10 first-year graduate students. It also focused on the analysis of students' behavior in the learning area and explored the law of cooperative learning behavior. The research result showed that the cooperative learning behavior analysis method based on movement data proposed in this paper is feasible. From the results of data analysis, the characteristics of behavior of students and their cooperative learning behavior patterns could be found.

**Keywords :** behavior pattern, cooperative learning, data analyze, k-means clustering algorithm

**Conference Title :** ICMCSS 2018 : International Conference on Mathematical, Computational and Statistical Sciences

**Conference Location :** Dublin, Ireland

**Conference Dates :** October 22-23, 2018