Abstract

Although the effect of sense of learning community on the e-learning persistence has been widely

explored, most of previous research rely on the measurement of purely self-report, and few adopted

the actual community engagement behavior as the indicator, especially in a natural e-learning setting.

To fill this research gap, the current study directly uses behavioral data and intends to evaluate if active

community engagement has effects on the length that students persist on the e-learning.

More than 30000 participants who voluntarily took part in a true online course are involved in the

study. They are further divided into three groups – browsers, inactive interactors and active interactors

according to their degree of community engagement on the discussion forum, by the Koller (2013)

cluster method and k-means non-hierarchical clustering method (Antonenko, et al., 2012). Through

Chi-square test and one-way ONVA, active interactors who are significantly more engaged in the

community interactions are found to have longer persistence and a higher completion rate. The results

suggest the potential importance to boost e-learners' sense of learning community and the actual

community engagement on discussion forum.

Keywords: sense of learning community, community engagement, persistence, e-learning