



# RETRACTED ARTICLE: Student-Centered Learning Environments Based on Multimedia Big Data Analytics

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The Editor-in-Chief and the publisher have retracted this article. This article was submitted to be part of a guest-edited issue. An investigation concluded that the editorial process of this guest-edited issue was compromised by a third party and that the peer review process has been manipulated. Based on the investigation's findings the Editor-in-Chief therefore no longer has confidence in the results and conclusions of this article.

The authors have not responded to correspondence regarding this retraction.

**Supplementary Information** The online version contains supplementary material available at <https://doi.org/10.1007/s13369-021-05962-4>.

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