

Peer Instruction as Teaching Method in Cybersecurity and Data Privacy

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Abstract

Cybersecurity and data privacy are important fields today. Basic education in these two interconnected areas should already be offered in schools, as practically everyone today can encounter the dangers and risks of the Internet in terms of data theft, data manipulation or the like. However, the topics of cybersecurity and data privacy are generally abstract, and many people are not interested in such rather technical topics. To arouse interest and provide a certain basic education, we used 'peer instruction' combined with storytelling as a promising method. Within the framework of an EU project called GEIGER and with the support of students who have learned data privacy by means of the presented method, the method has been further developed, applied, tested, reflected, and iteratively improved. In summary, the method presented is useful for the topics of cybersecurity and data privacy, but the recommendations compiled must be considered in particular with regard to careful preparation and testing.

Keywords: peer instruction, storytelling, data privacy, cybersecurity, micro-enterprises