

Using OpenAI GPT to Generate Reading Comprehension Items

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Abstract: The purpose of this study is to introduce and evaluate a method for generating reading comprehension items using template-based automatic item generation. To begin, we describe a new model for generating reading comprehension items called the text analysis cognitive model assessing inferential skills across different reading passages. Next, the text analysis cognitive model is used to generate reading comprehension items where examinees are required to read a passage and identify the irrelevant sentence. The sentences for the generated passages were created using OpenAI GPT-3.5. Finally, the quality of the generated items was evaluated. The generated items were reviewed by three subject-matter experts. The generated items were also administered to a sample of 1,607 Grade-8 students. The correct options for the generated items produced a similar level of difficulty and yielded strong discrimination power while the incorrect options served as effective distractors. Implications of augmented intelligence for item development are discussed.

Keywords: automatic item generation, item development, reading comprehension

Computer-based testing (CBT) provides many important benefits. CBT eliminates the need for paper-based production, distribution, and scoring. CBT permits testing on-demand thereby allowing examiners to implement a more flexible testing schedule. CBTs are created in one central location but can be administered to examinees in many locations. CBTs contain innovative item types that include different response modalities such as audio and video formats. Items on CBTs can be scored immediately thereby providing examinees with instant feedback (Bartram & Hambleton, 2006; Dragow, 2016; van der Linden & Glas, 2010; Wainer et al., 2000). However, the transition from paper to computer-based testing also raises important item development challenges. Large numbers of diverse, content-specific, high-quality items are required to implement CBT. A comprehensive inventory of test items is imperative for the implementation of a systematic and continuous assessment and evaluation approach within the context of CBT (Gaytan & McEwen, 2007). The large item pool is instrumental in providing students with continuous, prompt, and efficacious feedback, thereby facilitating the ongoing monitoring of their progress (Chen et al., 2019; Weber et al., 2003). Moreover, the deployment of individualized testing and computerized adaptive testing applications necessitates a substantial item reservoir for the precise estimation of parameters and the identification of the saturation point. The determination of the saturation point signifies the juncture at which a student attains the pinnacle of performance, rendering further measurement inherently challenging and there is a pivotal role of a comprehensive item pool in this process (Segall et al.,

1997). Hence, thousands of new items are needed to initially create and then replenish banks to ensure that examinees receive a continuous supply of new content for each test administration. Traditional item development, where subject-matter experts (SME) write one item at a time, can be used to create content for CBT but it is challenging to scale this process efficiently and economically because this approach relies on the item as the unit of analysis. That is, traditional item development requires that each individual item is written by SMEs based on their experience, judgment, and expertise. Then, after the items are written, each item must be edited, reviewed, and revised by SMEs until they meet the appropriate standard of quality (Lane et al., 2016). If 1,500 items are required for CBT, as an example, then 1,500 items must be written, edited, and reviewed by SMEs. As a result, when large numbers of items are needed, large numbers of SMEs who can write unique items are required in order to create the banks necessary to implement CBT.

Overview of AIG

Automatic item generation (AIG) is a technology-based innovation designed to scale the item development process so large numbers of high-quality items can be created efficiently and economically. AIG is the process of using models to generate test items using computer technology (Gierl & Haladyna, 2013; Gierl et al., 2021; Irvine & Kyllonen, 2002). AIG is intended to support the transition to CBT by providing a scalable method for creating items that are both efficient and

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