

Reading QizMaker

ReadingQuizMaker: A Human-NLP Collaborative System that Supports Instructors to Design High-Quality Reading Quiz Questions.

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0. Abstract

- Purpose: support *instructors* to conveniently design high-quality questions to help students comprehend readings
- Adapt to natural workflow and offer *NLP-based* support
- Evaluation Study:
 - questions generated with ReadingQuizMaker comparable to their manually designed quizzes
 - NLP suggestions satisfying and helpful
 - show the importance of allowing users to control the use of AI and providing immediate previews of AI-generated outcomes

1. Introduction

1. Assigned readings are crucial in college education. But a persistent issue in higher education is that only 20-30% of students complete their reading assignments, a trend that has worsened with the rise of social media.
2. Various strategies and tools have been implemented to enhance students' reading experience, like social annotation tools, which, however, work better for students with self-regulated learning skills.

3. Designing high-quality, thought-provoking questions is time-consuming and challenging, and existing NLP-based automatic question generation systems have low adoption rates in classrooms due to their domain specificity and poor quality.
4. Introduce ReadingQuizMaker
5. The paper claims three main contributions:
 1. revealing the challenges instructors face in creating reading quiz questions
 2. introducing ReadingQuizMaker with its NLP-based support
 3. An evaluation study of the system to demonstrate its usability and the advantages of a human-AI teaming approach

2. Related Work