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A framework for utilizing online grading software to deliver efficient assessment and feedback to students

In large undergraduate classrooms, efficient assessment and feedback mechanisms are critical for supporting diverse student needs and maintaining instructional quality. However, collection and analysis of this data often requires a massive effort and insight into established data collection methods. This presentation will explore the use of a home-grown open-source software, which facilitates on-paper assessments while enabling marking online optimizing the marking process and generating detailed learning analytics. The software automatically tracks key metrics, including individual and aggregate student grades by question, marking times, question discrimination, and question difficulty providing valuable insights into student performance, question efficacy, and marking practices. Specifically, we will explore the use of the software in analyzing the data for a second year engineering course, and discuss the scalability of the methodology to large enrolment courses.