The Tipping Point: e-Proctoring







Decision time...



current tipping point, where the department leadership must decide whether a shift to technology-enabled proctoring is the appropriate way forward.

These factors have led to the

Several **new foundations of educational technology** are relevant to this tipping point:

Costs

Algorithms: the available eproctoring solutions all implement algorithms to perform tasks such as monitoring of student's environments, eye movements, keystrokes and so on to detect patterns that may indicate cheating. Artificial Intelligence: the tools' designers claim that they can learn and improve over time, using student-created data as training materials for the next iteration of the tool. Sustainability: for the department to continue to grow its student numbers, solutions that do not involve physical space or human labour need to be found.

E-proctoring is seen as a technology that meets this need for sustainable growth.

Algorithms

Let's look in more detail at algorithms.

E-proctoring uses algorithms to detect potential instances of cheating during online exams.

So what is the typical flow of an e-proctored test?



The Impact on Students



E-proctoring makes a number of assumptions of students and a number of demands.

For students taking online exams at home, they are required to have access to a computer with a webcam and microphone, capable of running the proctoring software.

Given the demographic profile of Math students, this is not always a reasonable requirement. Proctoring tools also require that the student has access to a quiet space with no extraneous interruptions (e.g. other family members or room mates).

Again, for many students (e.g. newly arrived international students) this is not always the reality.

The way that certain behaviours are defined by the algorithm as 'cheating' also presents problems for a minority of students.

Examples include students for whom a disability may present to the algorithm as behaviour that should be flagged or identified as cheating.

The Impact on Faculty

So far the department leadership has resisted the calls to shift to e-proctoring.

The ethical issues surrounding e-proctoring means that they types of students served by the math department will be adversely impacted by eproctoring. However, the failure 'to tip' to e-proctoring has its own impact, this time on the faculty.

College policy to date has been to advise faculty to revise and rewrite their assessments in order to make it more difficult for online students to cheat.



This involves abandoning a long-held attachment to multiple choice assessments in favour of more authentic strategies, and that takes time and effort.

Providing the necessary support for faculty to revise their assessments is a challenge.



As with all educational technologies, the decision to use e-proctoring is determined by a range of factors, including but not limited to the educational advantages of the tool.

In an environment of growing enrolment and static or shrinking budgets, it seems likely that some form of e-proctoring will eventually be implemented under pressure from faculty who see it as a practical solution to problems of academic integrity in online courses.

Management and the college administration will also likely continue to press for a tech quick-fix to an ongoing area of concern.

For those who would prefer that the college did not buy into the proctoring technology arms race, the task will be to promote and support other ways to making online assessments less open to breaches of integrity, and to advocate for spending time and resources on authentic assessment instead.

I suspect that we will remain at this tipping point for some time yet.

The Making Of...

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Images: Pixton.com

For: ETEC 511 - Tipping Point Assignment

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March 2023

