

# Online Exam Vigilantes at Australian Universities: Student Academic Fraudulence and the Role of Universities to Counteract

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**Abstract** In this research pilot, the authors are taking an elemental look at exam vigilantes and in a broader sense academic fraudulence. In the last decade, there has been an increasing number of universities offering online degrees. Along with this new method of completing degrees comes a new body of academic dishonesty and misconduct. Not only is academic dishonesty widespread, it is also often underestimated by universities. Additionally, today's technological advances have enabled students to cheat in several different ways. Nonetheless, technology can also be used to combat the issue of cheating by employing biometrics to identify students based on physiological and behavioural characteristics and by applying the use IP addresses as a tool to identify collusions. Although most of the research on this topic has focused on the United States (US), this paper will exclusively focus on how it applies to the Australian university landscape.

**Keywords** Online Degrees, Online Exams, Exam Vigilantes, Biometric Systems, Academic Dishonesty and Misconduct

## 1. Introduction

The ever-increasing body of research on academic dishonesty and misconduct reflects widespread concern about these practices (Kerkvliet, 1994; de Lambert, Ellen and Taylor, 2003; Brimble and Stevenson-Clarke, 2006; Teixeira and Rocha, 2010). Glater (2006) warns of the alarming magnitude of cheating among university students, the increasing pervasiveness of the phenomenon within academia, and the detrimental impact it might have on the 'real world,' as the decisions students make once they leave university and commence working are influenced by their perception of ethical behaviour (Lawson, 2004; Teixeira

and Rocha, 2006). Brimble and Stevenson-Clarke (2006) find that not only is academic dishonesty widespread, it is also often underestimated by universities.

According to Rokavski and Levy (2007), cheating at universities is growing at a rampant rate. Researchers found academic dishonesty and misconduct at universities during the turn of the millennia was more prevalent than before due to technological advances, relatively scarce resources and understaffing at universities (Treviño and Butterfield, 1999; Maslen, 2003; Etter et al., 2006; Devlin and Gray, 2007; Howard and Davies, 2009). The most common and widely used notion of academic dishonesty and misconduct at universities is copying and/or cheating on an exam (Teixeira and Rocha, 2010), hence, this paper examines academic dishonesty in relation to online exams.

These global findings also apply to Australian universities. Brimble and Stevenson-Clarke (2006) conducted one of the largest studies on this topic that focuses on Australian students. In their research, they surveyed 1,206 students and 190 academic staff across four Queensland universities. They found academic dishonesty and misconduct is widespread and universities are not doing enough to limit it.

The corruption watchdog (Australia) said in order to deal with academic dishonesty and misconduct, universities must separate their compliance functions from their business development functions and limit the number of overseas agents they deal with. They argued that when these functions are combined, there is less incentive for universities to address academic dishonesty. The paper said:

*The gap between student capabilities and academic demands increases the likelihood that students will offer inducements to academics in order to pass courses and conversely, makes students more vulnerable to improper demands from academics . . . With universities in NSW financially dependent on the success of international*

*students, academics may be encouraged to admit students they would otherwise reject, to turn a blind eye to cheating and to mark the work of poor-performing students favourably to enable them to pass. (Independent Commission Against Corruption (I.C.A.C), NSW, 2015).*

There have been documented examples of academic dishonesty at Australian universities. According to extensive research into cheating in online degrees at Australian universities by Smith and Clarke (2017), universities are not vigilant enough. The research found 97 per cent of universities did not check if exam invigilators had a conflict of interest between themselves and the student they supervised.

Additionally, in their paper Smith et al., (2017), state 35 per cent of the exam invigilators were related (known and connected in a form of relation) to the student they supervised; a further 44 per cent were friends with the students they supervised and six per cent were dating. Yet they were all approved to work as exam invigilators that supervise online exams.

In their findings Smith et al., (2017), also highlighted 72 per cent of study participants knew firsthand of students who had cheated while completing an online degree. They go on to say:

According to Bushway and Nash (1977, p. 624) a “majority of studies indicated that students who are lower in school achievements may cheat more frequently.” According to researchers such as Hrabak et al. (2004) and Bisping et al. (2008), attitudes to cheating could be linked to a low-grade point average (G.P.A). The G.P.A is a numerical calculation, weighted by credit points, of the mean of the grades received by a student over a defined study period (e.g. a semester) or over an entire program (Federation University Australia). Research shows that students with a higher G.P.A. are less likely to cheat as they have less to gain and more to lose if they caught when compared to students who have a lower G.P.A. (Nowell and Laufer, 1997). This is supported by the research of Kerkvliet (1994) and Kerkvliet and Sigmund (1999), which indicate that cheating is related to the perceived costs and benefits of cheating.

More recently, researchers have found technology has enabled students to cheat in several different ways (Etter et al., 2006; Howard and Davies, 2009; Simkin and McLeod, 2010). The author noticed some current online programs at Australian universities send invigilators hardcopy exams, which are supervised by invigilators whose identities are not verified. For example, technology makes it much easier for students to collusion on exams that are meant to be an individual effort.

The widespread concern about academic dishonesty and misconduct is reflected in the ever-increasing body of research on these practices (Kerkvliet, 1994; de Lambert, Ellen and Taylor, 2003; Brimble and Stevenson-Clarke,

2006; Teixeira and Rocha, 2010; Wilkinson, 2009; Allen et al. 2013; Stack, 2015). Glater (2006) warns of the alarming magnitude of cheating among university students, the increasing pervasiveness of the phenomenon within academia and the detrimental impact it might have on the ‘real world,’ as the decisions students make once they leave university and commence working are influenced by their perception of what comprises ethical behaviour (Lawson, 2004; Teixeira and Rocha, 2006).

Research conducted by Brown, Weible and Olmosk (2010) found that 49 per cent of students in undergraduate marketing classes admitted to cheating in 1988 versus 100 per cent of the students in an undergraduate management class in 2008.

This paper uses the general definition of cheating from Sheard et al. (2003, p. 92), who defines cheating as “a series of practices, which cover a range of areas that can be defined as illegal, unethical, immoral or against the regulations of the course or institution.” This definition identifies the long-term problems that occur when students engage in academic dishonesty. If cheating is illegal, unethical and/or immoral, what will stop a student who engages in this type of behaviour (for example, cheating on their exams or falsifying a term project) from falsifying records or cheating on an expense account when they enter the workforce?

Australian universities are not an exception to this phenomenon. Brimble and Stevenson-Clarke (2006) conducted one of the largest studies on this topic that focuses on Australian students. In their research, they surveyed 1,206 students and 190 academic staff across four Queensland universities. They found academic dishonesty and misconduct is widespread and that universities are not doing enough to limit it. This was confirmed by Wilkinson (2009) and Eriksson and McGee (2015), who conducted research on cheating at Australian universities. These researchers found more proactive strategies need to be implemented by universities to prevent student involvement in academic dishonesty.

According to research conducted by Lawson (2004), there is a strong relationship between a student’s predisposition to engage in unethical behaviour, such as cheating in an academic setting, and their attitude towards such behaviours in the business world. Furthermore, research suggests that students, who engage in dishonest behaviour, for example cheating on exams, are less likely to believe people in the business world act ethically. They are also more accepting of unethical behaviours in business than those who did not engage in academic dishonesty (Lawson, 2004; Brimble and Stevenson-Clarke, 2006). Given the ongoing implications of academic dishonesty, it is important this subject be further investigated.

## 2. Methodology

This research began with an examination of the existing

literature on academic dishonesty and misconduct in online programs and online exams. The literature review was followed by a survey, which had four closed ended questions with “yes” and “no” options, five-point Likert scale questions, and two open ended questions.

The survey participants were exam invigilators who supervised students doing online degrees in Australia between 2010 and 2018. In this research, 68 exam invigilators were contacted via email and invited to participate in the study. Sixty-three per cent of the target participants (43 exam invigilators) completed and returned the survey in approximately two weeks.

This survey was developed using the online survey tool, ‘Survey Monkey’. This software helped with the collection of the survey and it assisted with the analyses of the results.

This is a pilot study. Once the results of the pilot study are analysed, a larger study, which contain will inculcate interviews, will be conducted.

### 3. Results

The participants of this study report that they have firsthand knowledge of 81 per cent of the students cheating or attempted to cheat in an online exam.

Although the findings concerning the possibility and amount of cheating in online courses is concerning, there are several measures universities can take to minimise cheating. Penalties and minimising opportunities for students to engage in academic dishonesty and misconduct can be highly effective (Haswell, Jubb and Wearing, 1999).

Ninety-one per cent of exam invigilators in this survey believe cheating is so prominent as the penalties for students who cheat are not tough enough. Additionally, on alarming 96 per cent of the exam invigilators in this study did not see any reason to report a student cheating as there were no ‘real’ consequences for the student and it was expected of the exam invigilators to ‘prove’ that the student was cheating.

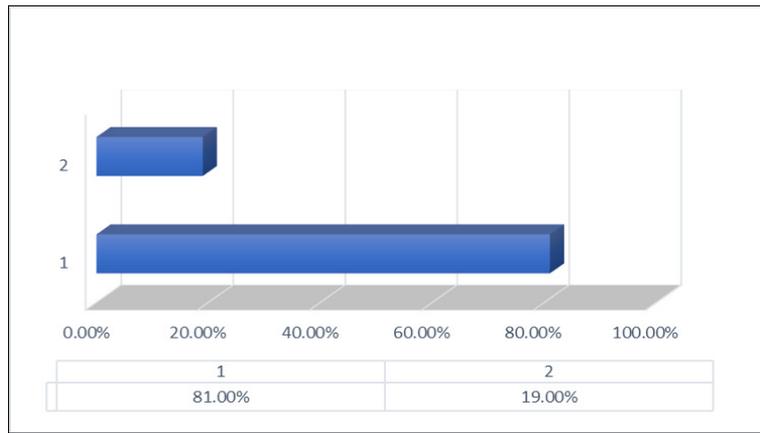


Figure 1. Firsthand knowledge of students cheating or attempted to cheat in an online exam

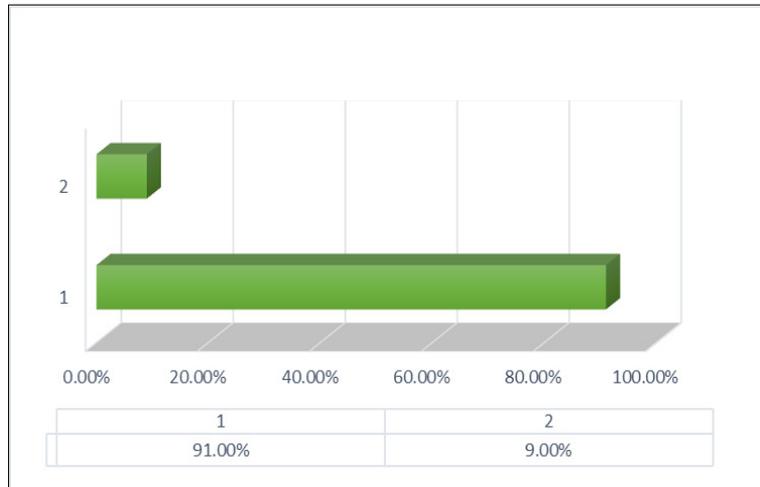
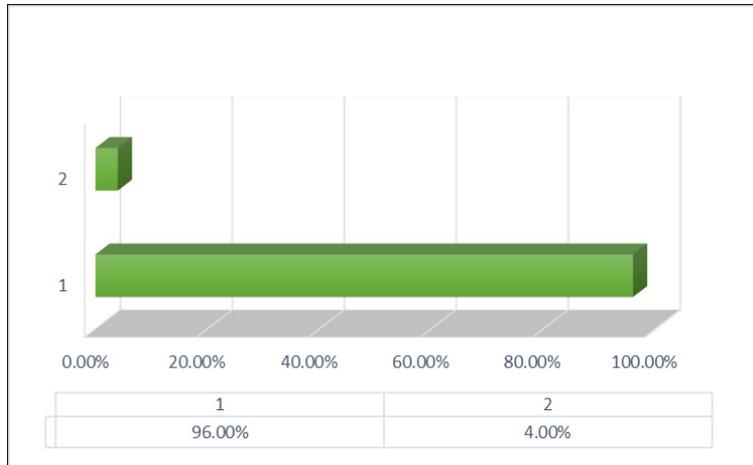
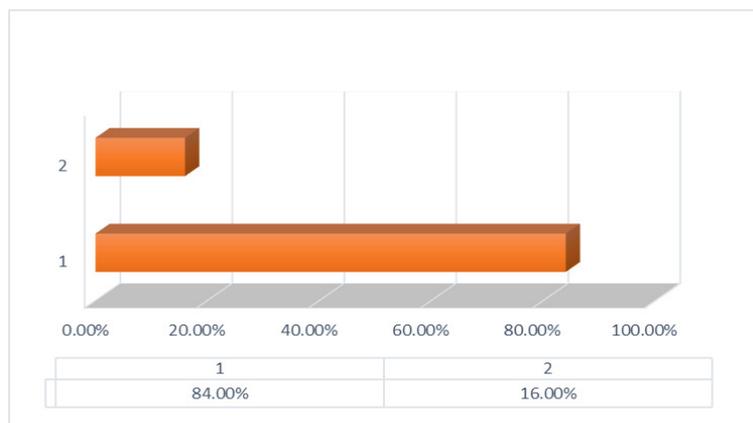


Figure 2. Penalties for students who cheat are not tough enough



**Figure 3.** Exam invigilators not reporting cheating students



**Figure 4.** Cheating students' likelihood to cheat in other areas of their life and work

This result is supported by earlier research conducted by Haswell, Jubb and Wearing (1999) which studied students from universities in Australia, the United Kingdom and South Africa. The report examined how the willingness of students to engage in a variety of forms of plagiarism in a risk-free environment decreased dramatically when the detection risk increased, and substantial penalties were introduced. They found the size of the penalty must exert a greater influence than the risk of detection in order to be an effective deterrent. According to Woessner (2004), universities failing to apply heavy penalties can be tantamount to encouraging academic dishonesty and misconduct, as it presents an excellent gamble to students. Those findings, in conjunction with evidence academic misconduct is highly prevalent in Australian universities, presents a worrying picture of student behaviour and the performance of universities in terms of teaching, learning and producing ethical employees.

The study participants also state (84 per cent) they believe students who cheat on assessments are less knowable and are more likely to cheat in other areas of their life and work. Academic dishonesty and misconduct have serious and negative consequences for the quality of

learning in Australian universities and will have flow-on effects in industries and societies at large. If there are no major changes to University policies to ensure universities enforce strict penalties and minimise opportunities for students to engage in academic dishonesty and misconduct, the current situation will prevail.

Research in the area of online degrees have indicated most online degrees will give examinations with little or no supervision, compared to traditional classes where examination is supervised (Stack, 2015). There is also evidence that cheating on online degrees is up to four times higher than cheating in a traditional class setting (Moten, et al., 2013). Furthermore, data in this area indicates higher self-reported instances of cheating in online classes compared to traditional class settings (Lanier, 2006; Moten, et al., 2013). According to researchers such as Means, Toyama, Murphy et al., (2010), students perform better in an online setting, which may indicate some students are cheating.

Following this pilot studies results; a detail literature review was done on how potentially students are cheating in a short-time framed supervised online exam at a Group of Eight (Go8) university in Australia.

The flowchart in Figure 5 is the result of an hour scenario in the exam venue where many students participated in an online exam. After receiving the exam questions, students open and check questions. If they are confident to answer, they start answering the questions and complete the exam.

The following flowchart shows how students cheat in a short-time framed supervised online exam at a Group of Eight (Go8) university in Australia:

However, if they are not confident answering the question, they then copy the question and paste it into the Google Translate application. The translated texts are then copied and pasted into a local online support forum student are already familiar and experienced with. After posting their questions, they look for classmates or other support members in the forum. If they find peers or members with similar interests, they start a discussion and decide on answer. The students then start answering the questions and complete the exam. If they do not find anyone to support in the forum, they either leave the questions unanswered or they try to answer themselves and end with the exam.

Additionally, the invigilator may not be from the same cultural background and may not have language barriers that could be used to the benefit of the student's deceit. It is to be noted the translated texts copied from the Google Translate application and the discussion threads in the local online forum may not be understood by many of the invigilators who are not native to the students. Thus, students may take advantage by informally and non-verbally convincing the invigilators with some acts such as body-language that they are not doing anything wrong.

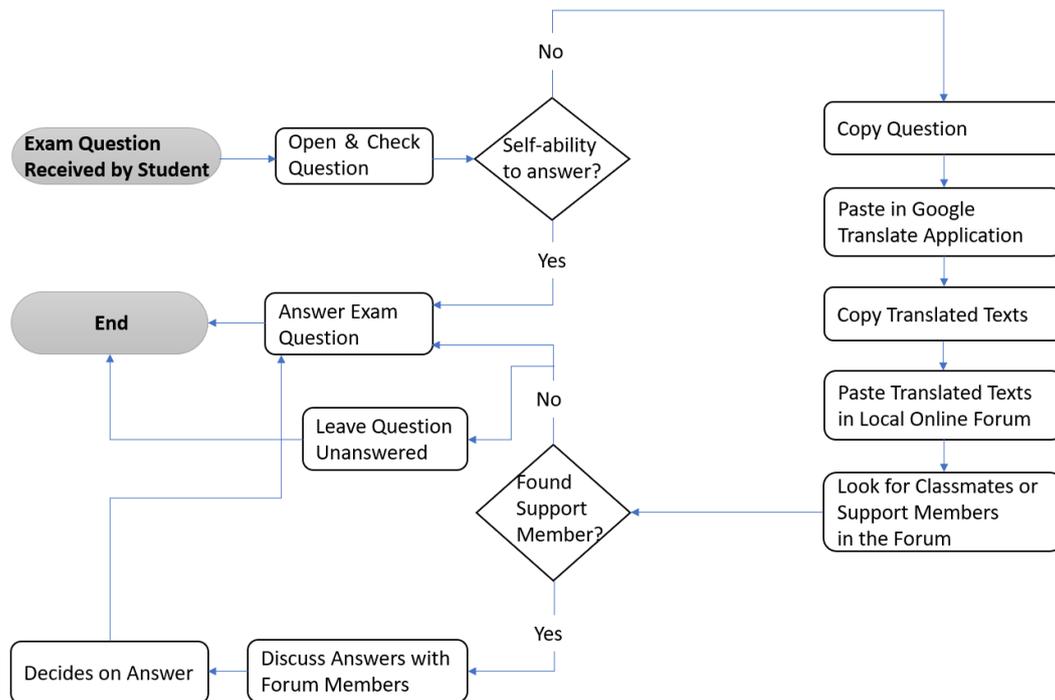


Figure 5. Student's decision-making in cheating in online exam

#### 4. Discussions and Recommendations

There has been little research in Australia in the field of online degrees and cheating in online exams. Online education has thrived in the last decade, with a growing number of students taking online classes and degrees. With this increase comes an increase in academic dishonesty (Allen and Seaman, 2013; Stack, 2015).

Some research suggests that cheating can be addressed by using biometrics to identify students based on physiological and behavioural characteristics (Rabuzin, Baca and Sajko, 2006; Asha and Chellappan, 2008; Gao, 2012; Smith, et al. 2017). Biometrics commonly uses soft traits like gender, age, height, weight and ethnicity, physiological characteristics such as face, eye and hands

and behavioural characteristics such as keystrokes, signature, mouse movement, voice, gait and pulse to recognise individuals. Two or more of the listed biometrics can be combined to improve the recognition accurateness.

The way this would work: first the student needs to register to a biometric system, where biometric data would be stored. The student then needs to provide the same biometric that was provided during registration to login to the system. Once the biometric data is entered, they will be processed with the same algorithm as those at registration and compared to the stored template. Some of the biometric systems currently used in universities are shown in Table 1.

Researchers in this area have proposed different biometric traits should be combined and used in the field of online learning. However, for biometrics to be effective,

universities must give exams online rather than on paper. This is a logical extension to online studies; if students are doing an online degree, then their exams should be online too. Another tool that can be used with online exams is identified by Gao (2012), who suggests using IP addresses as tools to identify collusions.

If universities choose to post hard copies of exams to exam invigilators so students can do the exam off site, then universities need to do a background check on the exam invigilators. Universities have the reputation of moving at glacial pace, which means any change may take some time to be introduced. However, if more universities increasingly offer online degrees and courses, then universities need to ensure they do due diligence. Universities also need to look at the size of the penalty for

academic dishonesty and ensure that it exerts a greater influence than the risk of detection. Research shows that students' willingness to engage in a variety of forms of plagiarism in a risk-free environment decreases dramatically when detection risk and substantial penalties are introduced.

There are numerous ways of dealing with the problem of academic dishonesty and misconduct. Based on the literature review (Hrabak et al. 2004; Rokavski et al. 2007; Bisping et al. 2008; Smith, 2017) and survey findings of this pilot study, suggestions are made in table 2 on how to deal with online exam vigilantes at Australian Universities and students' academic dishonesty and misconduct in general.

**Table 1.** Biometric systems currently used in universities

Attribute	Securexam Student (SES)	Webassessor™	ProctorU
Description	Securexam Remote Proctor is a small device with a fingerprint scanner, microphone and video camera with a 360-degree view. To start an exam, students need to provide their fingerprints for identification. During the exam, the microphone and video look out for anything suspicious like an unknown voice or movement on the camera.	Kryterion's Webassessor uses face images captured by webcams and uses keystroke biometrics (typing styles) captured by software to authenticate the test taker. It will alert the proctors if it detects a new user taking over.	The system gathers personal data from a variety of databases, including criminal files and property records, and uses the data to ask students a few questions, such as address, employers, etc. Students need to answer the questions correctly before they can begin exams. In order to use ProctorU, each student also needs to reserve a time slot for an exam and have a webcam ready that can monitor the exam environment. Using a webcam, a human proctor would remotely guide a student in the process of starting an exam.
College	Troy University, New York University	Penn State University	Swinburne Online
Cost	\$25.00 USD per student annually	\$50~\$80 USD per student	\$175 USD per student annually
Company	Software Secure Inc.	Kryterion Inc.	Axicom Corp.
Web	www.softwaresecure.com	www.kryteriononline.com	www.proctoru.com

Adapted from Qinghai Gao, 2012

**Table 2.** Recommendations

Pilot study participants' feedback	Suggestions
Eighty-one per cent of participants in this study reported they have firsthand knowledge of students cheating or attempting to cheat in an online exam.	Try to minimise the problem from the get-go by not enrolling students with a low G.P.A. (in Australia, often represented as a tertiary entrance ranking), as research suggests a student's attitude to cheating could be linked to a low G.P.A. Research shows students with a higher G.P.A. are less likely to cheat, as they have less to gain and more to lose if they are caught in comparison to students with a lower G.P.A. Further recommendations include the use IP addresses as tools to identify collusions.
Ninety-one per cent of the exam invigilators in this survey believe cheating is prominent, due to the fact that penalties for students who cheat are not severe enough.	Implement tougher and tough penalties for students who cheat. In addition, employ the use of biometrics to identify students.
Ninety-six per cent of the exam invigilators in this pilot study did not see any reason to report a student cheating as there were no 'real' consequences for the student and it was expected of the exam invigilators to 'prove' the student was cheating.	Offer take-home exams to invigilators to reduce pressure. In case universities insist/prefer to use a paper exam, then they should supply and pay an exam invigilator. It is recommended students not be charged with finding and performing background checks on their exam invigilator.
Eighty-four per cent of study participants' state they believe students who cheat on assessments are less knowledgeable and are more likely to cheat in other areas of their life and work.	Strengthening the teaching of ethics in program curricula.

All the issues realised in this pilot could be potentially minimised, if not be eliminated, if biometrics are used to identify students and IP addresses used to identify collusions.

Those included in this pilot are only a few suggestions, and the authors recommend an in-depth case analysis with a large sample size be conducted to identify what may and may not work when it comes to the fight against academic dishonesty and misconduct.

## 5. Conclusions

Academic dishonesty and misconduct are enduring problem for tertiary institutions worldwide and one that directly impacts on the performance attributes of universities. A growing pool of research shows evidence that dishonest behaviour by students around the globe is predominant and ever increasing. The literature presents a worrying picture of student behaviour and in turn of the performance of Australian universities in term of teaching, learning and the worth of the degrees completed by students and scholarship.

As universities around Australia and the world are offering an increasing number of courses and degrees online, it is important to plan how to deal with the problem of academic dishonesty and misconduct; by for example introducing tougher consequences for students who engage in those activities. This research took into consideration only one type of cheating. Other sorts of academic dishonesty, for example plagiarism or employing assignment-writing companies, are beyond the scope of this paper. With many courses using an end-of-subject exam for up to 60% of the student's overall mark for the subject, it is vitally important cheating in exams be addressed. This research has found academic dishonesty and misconduct can be effectively addressed by using biometrics to identify students based on physiological and behavioural characteristics as well as IP addresses as tools to identify collusions.

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