



Extreme cheating methods

Anti-cheating drone will hover over test-takers in China

For students taking the national university Entrance exams in China, there's now one more little thing to worry about: drones, deployed to catch cheaters.

The drone is a **hexarotor** and, as reported by China's <u>state-owned ECNS</u> news service, it will scan for suspicious radio signals from exam-takers. While that won't stop any cheaters who use low-tech methods to get around difficult questions, it will detect any number of <u>advanced methods</u> that rely on the test-taker exchanging information with a second party outside the exam room. These methods include



cameras hidden in glasses with transmitters hidden in water bottles, cell phones hooked up to flesh-colored wireless headphones, and pen cameras that film the exam-takers' test.

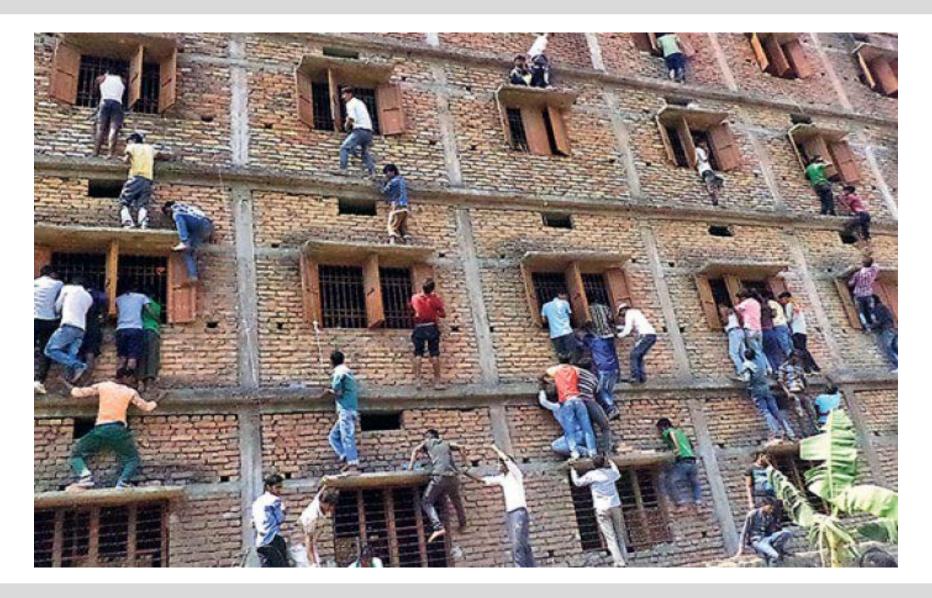
The anti-cheating drone hovers at 1600 feet above the ground. If it eavesdrops on a radio signal from one of these devices, the drone forwards the location to operators, who can see where that exam taker is on their mobile device. Cheaters who get caught can face legal penalties.

ECNS states that the exam drone led to the arrest of 9 suspects in 2014.

Article published 5 June 2015 in Australian Popular Science



Family members giving a helping hand - Bihar, India





Students made to wear blinkers during exam



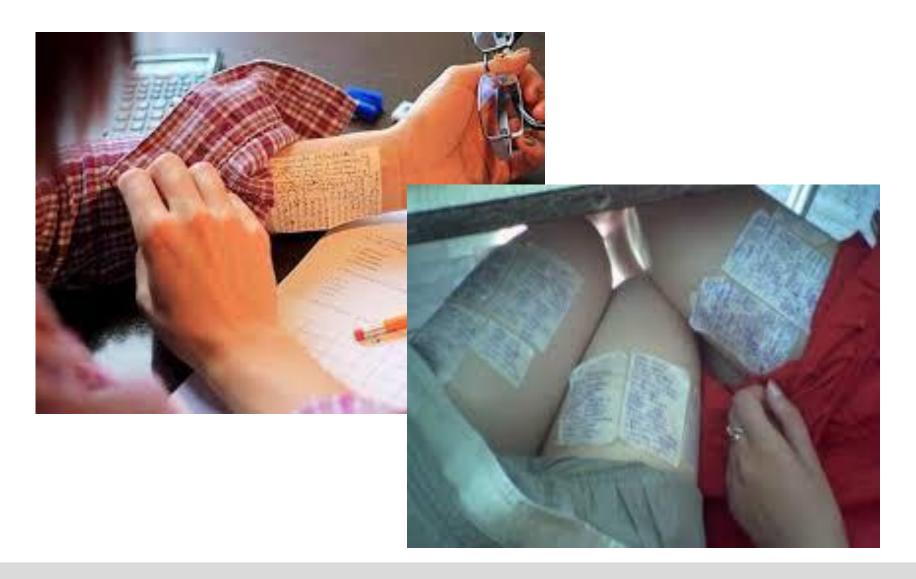
Kasetsart University, Bangkok – Courtesy HuffPost UK





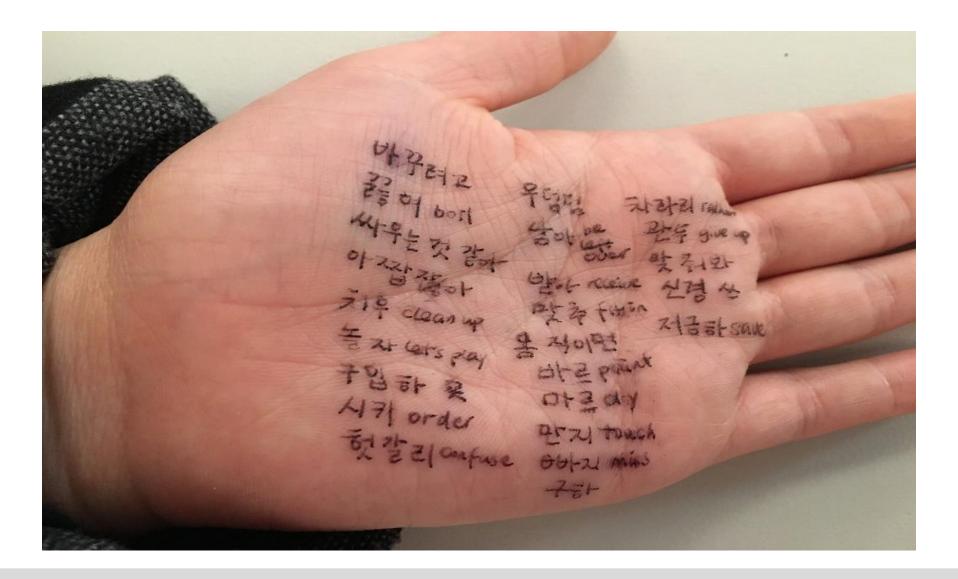
Common cheating methods

Concealed notes



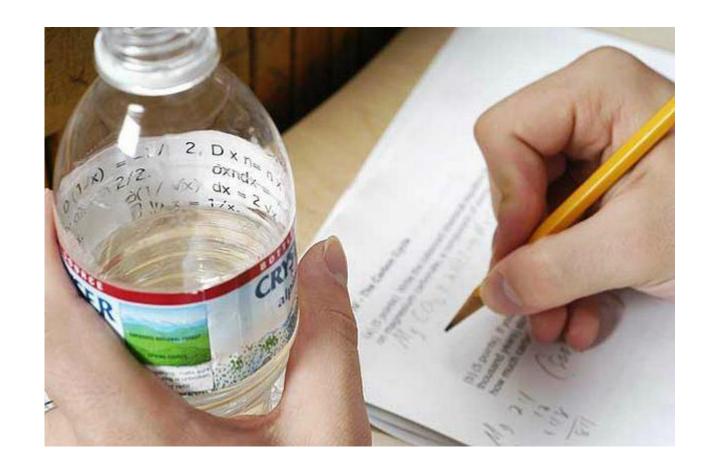


Writing on the body



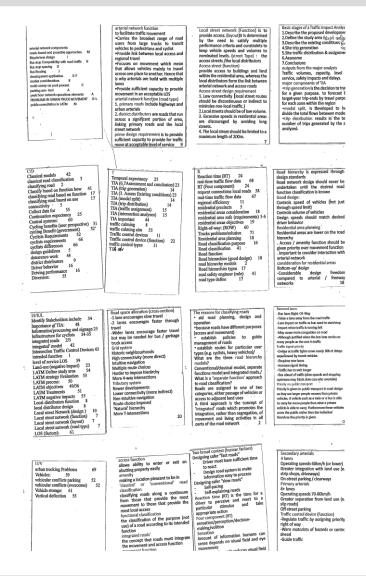


Writing on authorised items





Examples of notes – often on very small pieces of paper







Technology creating alternate cheating options

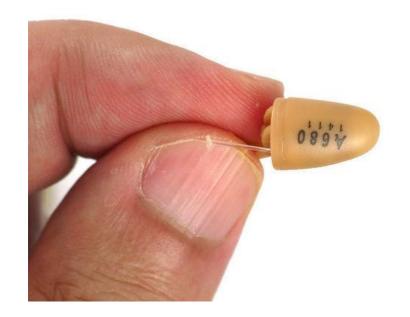
Once we were worried by this



but now with technology we face...



1. Camera pen & ear piece







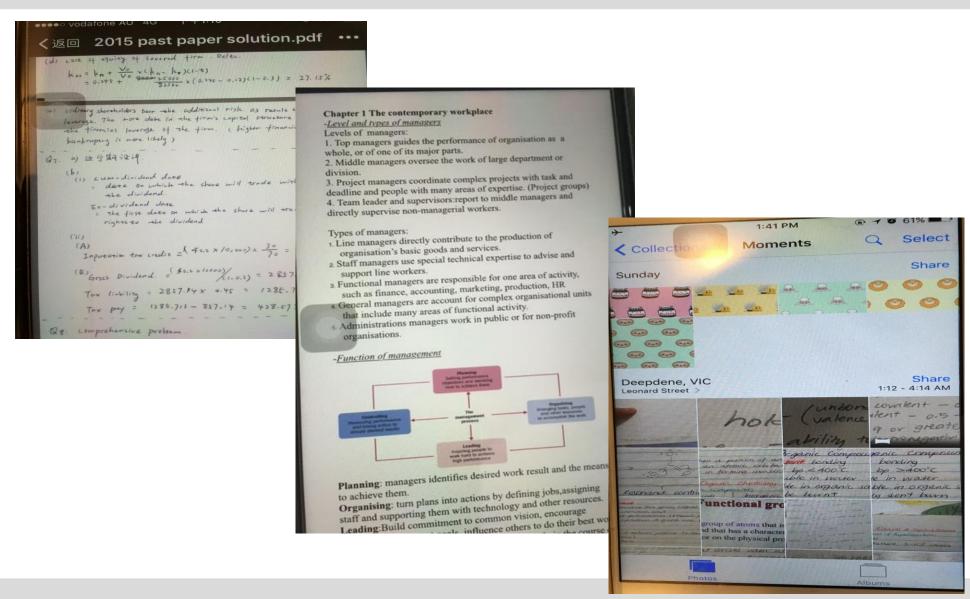
2. Glasses with camera & transmitter



Google glasses could be more of a concern!

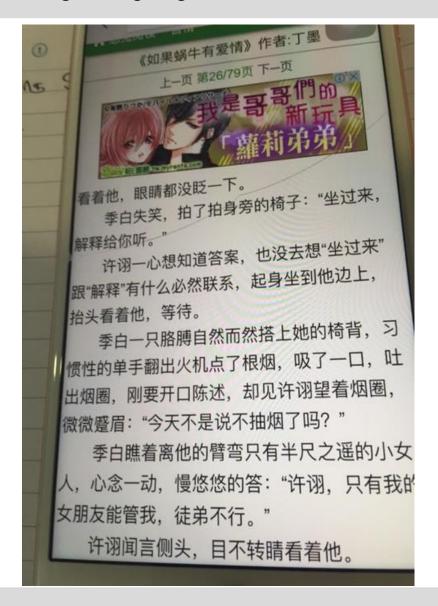


3. Data stored on mobile phones





4. Data in foreign languages



Written notes in foreign language isn't new but operating some of the newer smart phones are complex enough in English!



5. Moodle access

Learning and Teaching systems

At times, students are caught accessing Moodle while in the exam which can be detected by academics observing students logging in.

Potential solutions

- Monitor moodle accounts, how much resources would be required?
- Turn off moodle for specific exams, won't students just save images on mobile phones instead, possibly without getting caught?





Some suspected cheat case incidents

Attempts to get away with it...

Suspected cheat case one

- A student was found in possession of a note on their desk
- When confronted, the student ate the note in front of the invigilator
- Under the policy in place at the time, the notes were required as part of the evidence for a misconduct case
- The student got off without any repercussions

Outcome

The policy was changed after this incident to allow students to be charged with misconduct, even without the unauthorised material as evidence



Attempts to get away with it cont.....

Suspected cheat case two

- At the end of the exam a student attempted to enter the toilet but was asked to use external toilets
- The students' behaviour became desperate, which raised suspicion
- Invigilators did a thorough search of the toilet area and, lifting the lid of a cistern in one toilet observed a sealed plastic bag at the bottom with a mobile phone and notes inside
- The student had placed it there at the beginning of the exam

Outcome

The student received a '0' mark, and was suspended for six months



Attempts to get away with it cont...

Suspected cheat case three

Notes were found in a toilet bowl after a student had left the cubicle

- The student knew the invigilator had seen the notes and went back to his desk
- Shortly after, the student said he had 'chest pains' and the Nurse attended
- Due to the nature of the students complaint, an ambulance was called
- Obligated paramedics took the student to hospital for observation and tests

Outcome

The Faculty charged the student with Academic Misconduct, but the student was given the benefit of the doubt and found **not guilty** as he said the notes were already in the toilet when he entered, and there was no direct evidence that they were his.

Repeat behaviours

Next exam period, the same student was observed accessing Moodle during two different exams by academics, and was **excluded** from the university.





Validating the student identity

It's not difficult to pay someone to sit an exam using a fake ID card as shown on the SBS documentary the Feed, 'pens for hire' —November 2015

http://www.sbs.com.au/news/thefeed/article/2015/11/05/pens-hire-how-students-cheat-and-how-they-get-away-it

Proactive response

Feb 2016

A 'pen for hire' attempted to sit an exam with a fake ID card

Solution

Student images available in conjunction with ID cards in venues

UNIT CODE: NUR1112 - Fundamental skills and knowledge for nursing and VENUE: CAULFIELDRACECOURSE LEVEL 2

	VERGE. O/ROEL REEL						MONASH University	
	Mon, 12 Jun	START TIME	CRC 2	ass idreference 14105 / PAPER 1			William State of the State of t	
	Mon, 12 Jun	09.30	CRC 2	14105/1	PAPERI			
	Seat: 2001 PersonID: Surname: Given Names: Present:		bsent:	Campus: CLAY	Seat: 2006 PersonID: Surname: Given Names: Present:	Absent:	Campus: PENIN	
H	Seat: 2002 PersonID: Surname: Given Names: Present:		bsent:	Campus: PENIN	Seat: 2007 Person ID: Surname: Given Names: Present:	Absent:	Campus: CLAY	
	Seat: 2003 PersonID: Surname: Given Names: Present:		bsent:	Campus: PENIN	Seat: 2008 PersonID: Surname: Given Names: Present:	Absent:	Campus: CLAY	
	Seat: 2004 PersonID: Surname: Given Names: Present:		bsent:	Campus: PENIN	Seat: 2009 PersonID: Surname: Given Names: Present:	Absent:	Campus: PENIN	
	Seat: 2005 PersonID: Surname: Given Names: Present:		bsent:	Campus: PENIN	Seat: 2010 PersonID: Surname: Given Names: Present:	Absent:	Campus: CLAY	

DATA EXTRACTED: 09-May-2017 at 09:55 AM

Page 2 of 900





Monash academic misconduct

Misconduct procedures

Academic misconduct

- 30 40 students are charged with Academic Misconduct offences each exam period for attempting to cheat, or cheating in an exam.
- Exam Services interview the student with a student rights officer present and report the incident to the faculty who convene a student discipline hearing.

Guilty verdict - possible outcomes

- Reprimand
- Failed exam
- Failed unit
- Suspension
- Exclusion
- Record of guilt on file

General misconduct

 In addition, around 70 students are charged with General Misconduct for being in possession of a mobile phone each exam period. In these cases, there is no evidence that the students were attempting to cheat.

Guilty verdict

- Fine \$156
- Record of guilt on students' file





Exams in the future

Online exams pilot



Summer 2015 online exam pilot

- 200 students
- 3 units Law, IT & Marketing

How will online exams change opportunities to cheat?

- 1. Typing usually required two hands vs one hand to write
- 2. System can record and report inactivity
- 3. Browser locked down



(photo of an open book exam, with students accessing their own hard copy material)

