Computer Ethics: A Case Study of Plagiarism in Higher Education

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How important are ethics in today's society?
道德

「道」指自然運行與人世共通的真理；而「徳」是指人世的德性、品行、王道(= 儒家認為作為君主應該推行的統治方法)。
“Relativity applies to physics, ”

Albert Einstein
Outline

• Ethics/Technology Ethics/Computer Ethics

• Academic Plagiarism

• VeriGuide System
### Timeline of Computer Ethics

<table>
<thead>
<tr>
<th>Event</th>
<th>Year</th>
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<tr>
<td>“The Human Use of Human Beings” by Norbert Wiener</td>
<td>1950</td>
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<td>Fair Credit Reporting Act</td>
<td>1970</td>
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<td>Right to Federal Privacy Act</td>
<td>1978</td>
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<td>Electronic Communications Privacy Act</td>
<td>1986</td>
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<td>First ETHICOMP conference</td>
<td>1995</td>
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<td>Uniform Computer Information Transactions Act</td>
<td>2004</td>
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<td>First computer crime</td>
<td>1966</td>
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<td>ACM Code of Ethics</td>
<td>1973</td>
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<td>Freedom of Information Act</td>
<td>1984</td>
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<td>Small Business Computer Security and Education Act</td>
<td>1992</td>
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<td>ACM Code of Ethics and Professional Conduct</td>
<td>1998</td>
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<tr>
<td>Digital Millennium Copyright Act</td>
<td>2009</td>
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<tr>
<td>Principles of the Law of Software Contracts</td>
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Street View on Google Maps

- Put 3D images of streets on the Internet
- Useful for house hunting, planning holidays, …etc
- Invasion of privacy?
- Help robbers to find their targets?
Social Networking Sites

- Make new friends and keep in touch with old friends
- Illicit use of social networking sites?
- Distract students and affect their academic performance?
Chat Rooms

- Interact with friends regardless of geographic distance
- Provide a medium for criminals to communicate?
- Allow pedophile to find victims?
- Allow users to use fake identities
- Help criminals to hide their identities?
- Protect privacy vs. Protect vulnerable users
Online-Gambling

- Enjoyable game experience
- Risk of gambling addiction?
Violent Computer Games

• Enjoyable game experience

• Too violent?

• Freedom of choice vs. Protection from harm
YouTube Video Extraction Software

• Youtube protects copyright by restricting the download of video

• However, there exist some programs that can extract video from youtube

• Do these programs infringe copyright?

• Do the videos invade personal privacy?
Fake Wikipedia Entries

Wednesday, December 14, 2005 04:37:24 AM

WIKI

More Fake Wikipedia Entries Found

This week a bogus entry in Wikipedia, the online encyclopedia in which users submit material, was revealed when a Tennessee newspaper publisher was falsely linked to the Kennedy assassination. A further search of the Wiki service has found other erroneous entries, such as the following:


Upon being elected Bush immediately set to work on ridding the nation of the partisan politics that had plagued America under his predecessor.

Bush is respected by members of both parties for his intellect and his willingness to listen to opinions contrary to his own.

Once a successful businessman, Bush turned his focus to international politics in an effort to make the world a safer place. His motto being: The world's only superpower should only use its military might as a last resort.

A compassionate conservative and a uniter, Bush first won the presidency fairly and squarely in 2000 against the challenger of the time, Al Gore, of the Democratic Party.
Sharing of Copyrighted Materials

- Three types
  - Peer-to-peer networks
  - File sharing servers
    (users upload copyrighted materials to the servers)
  - Servers with copyrighted materials
    (server owners provide copyrighted materials)
Peer-to-Peer Networks
File Sharing Servers

- Megaupload
- File Factory
- Rapidshare
- YouSendIt
- Badong.com
Servers with Copyrighted Materials
Cyber Crimes

- Spam
- Fraud, Internet scams
- Obscene or offensive content
- Drug trafficking
- Hacking
- Cyberterrorism
Cyber Warfare

- Cyber WWIII?
- Battlefield
- Tactics
- Reported threats
- Electrical power grid
- Cyber counterintelligence
Plagiarized Website Design
Plagiarism

• Merriam-Webster’s online dictionary defines “plagiarize” as

the process of stealing and passing off the ideas or words of another as one’s own, and using them without crediting the source
Plagiarism

- Plagiarism can appear in many forms, such as
  - Text
  - Images, photos, art work, etc.
  - Music, composition, sound, etc.
  - Video, animations, movies, etc.
  - Designs, concepts, etc.
  - Programming codes
Plagiarism in Academic Writing

- In United States, a survey by Rutgers University indicates that:
  - In 2000, 10% of students surveyed plagiarized from the Internet
  - In 2003, 38% of students surveyed plagiarized from the Internet
  - In 2008, the student newspaper Varsity reported that 49% of Cambridge students have committed some form of plagiaristic act
Survey shows plagiarism is up

By Adam Beam

Published: Wednesday, September 17, 2003
Updated: Sunday, September 6, 2009

A survey conducted by a Rutgers University professor found that 38 percent of college students have participated in the cut-and-paste style of online plagiarism during the past year.

Rutgers University Management professor Don McCabe organized the survey, which encompassed 18,000 college students, 2,600 faculty and 650 teaching assistants on 23 campuses. McCabe would not say what campuses were used in the survey.

The survey defines cut-and-paste Internet plagiarism as paraphrasing or copying a few sentences of material from the Internet without citing the source.

Stealing from Internet sources seems to be on the rise among college students. Three years ago, the same survey found that only 10 percent of students surveyed used plagiarized from the Internet. This year's study found that almost half the students surveyed said they did not consider Internet plagiarism as cheating.

"My purpose in doing this is to convince schools that this is an issue they need to address," McCabe said.

McCabe said a majority of the students filled out the survey online, but some smaller schools did use a written version. Some schools offered incentives for students to fill out the survey, such as autographed footballs from players and coaches at their school or coupons for fast food restaurants. McCabe said these schools got a response rate as high as 40 percent or 45 percent. Even though students filled out the survey anonymously, McCabe said he thinks the survey is still understating the problem.

But while the rise of the Internet has made it easier for students to cheat, it has also made it easier for professors to catch them. Web sites like Turnitin.com offer professors a huge database to check students' papers against for stolen phrases. McCabe's survey found that 20 percent of faculty members surveyed use software to hunt for possibly offenders.
Consequences of Plagiarism

- **Student**
  - Deteriorate the learning attitudes
  - Unfair learning environment and scoring
  - Less incentive to acquire knowledge seriously
  - The vicious circle continues as more and more students participate in plagiarism in order to secure a high score
Consequences of Plagiarism

- Teacher
  - Need to spend vast amounts of time and effort to identify and verify plagiarism, or think of ways to prohibit plagiarism.
  - The problem worsens when the class size is large and non-trivial means are used by students to hinder the detection process.
  - As a result, teaching quality is likely being sacrificed.
Consequences of Plagiarism

- Institution
  - The reputation of the institution may be tarnished due to unfair scoring, unmotivated students, and deteriorated teaching quality
  - Fail to produce well-trained graduates and unable to achieve significant signification academic goals
Consequences of Plagiarism

- **Society**
  
  - Every modern society invests on education and expects measurable benefits in terms of **creativity**, **originality**, **productivity**, and **high moral standards**

- **Plagiarism diminishes** these benefits
Cost of Plagiarism

Times Business Reporter Accused of Plagiarism Is Said to Resign

By THE NEW YORK TIMES
Published: February 16, 2010

A New York Times reporter accused of plagiarizing portions of several articles resigned from the newspaper on Tuesday, according to two people briefed on the matter.

The reporter, Zachery Kouwe, who had already been suspended, met late Tuesday afternoon with representatives of The Times, The New York Times Company and the Newspaper Guild of New York. The participants were to discuss possible disciplinary action, including dismissal, but instead Mr. Kouwe resigned.

Participants were told that the meeting had to remain confidential, but the events were described by the two people who spoke on condition of anonymity.

Last Friday, the managing editor of The Wall Street Journal, Robert Thomson, sent a letter to editors of The Times saying that portions of an article written on Feb. 5 by Mr. Kouwe were identical or nearly identical to a Journal article published online hours before Mr. Kouwe’s. The Times editors investigated and found other examples.
VeriGuide

- Similarity text detection system
- Developed at CUHK in 2005
- Promote and uphold academic honesty, integrity, and quality
- Support English, Traditional and Simplified Chinese
- Handle .doc, .txt, .pdf, .html, etc. file formats
- Generate detailed originality report including readability
VeriGuide

- **Introduction**
  - Provide an effective plagiarism detection in both **Chinese** and **English**
  - Check over the **Internet** and within the submission batch
  - Provide **assignment management service** to teachers

- **Student-oriented version**
  - Upgraded to improve the **user-friendliness** and **performance**
  - Integration of **assignments collection** and **plagiarism detection**

- **Minimal teachers’ involvement**
Main Benefits

- Uphold academic honesty
- Promote fair learning environment among students
- Reduce teachers’ workloads in detecting plagiarism
- Archive homework database for institutions
- Assess students’ performance over time
- Provide Quality Assurance (QA) reports
Plagiarism Channels

- Classmates
- References or books
- Contracts
- Past assignments
- Internet
Student-Oriented Version

• Main features and enhancements
  • Retrieve course registration information automatically from Registration Unit
  • One-stop assignment collection for students
  • Automatic plagiarism detection after deadline
  • Simplified interface and operation
  • Enriched report with more information
  • Readability score
Matching Scope

- Within the assignment submission
- With course assignment databases (Past student submissions)
- With teachers’ provided references
- Internet resources
- Digital library / publisher databases
Compatibilities

• Document and language compatibility
  • Check essay-typed document
  • Support Traditional Chinese, Simplified Chinese and English

• Format compatibility
  • Microsoft Word 97-2008 (.doc)
  • Microsoft PowerPoint 97-2008 (.ppt)
  • Microsoft Excel 97-2008 (.xls)
  • OpenOffice
  • Adobe Acrobat (.pdf)
  • HTML (.html) web document
  • Plain Text (.txt)
  • Zip archive (.zip)
Originality Report

- **Leniency control**, keyword and URL preferences
- Detailed document **statistics**
  - Paragraph-based readability analysis
- **Amount of suspected plagiarism** for each document
- **Side-by-side** and highlighted comparison between the documents and the plagiarized sources
Demonstration

VeriGuide

What is New?

The Chinese University Plagiarism Identification Engine (CUPID) is now renamed as VeriGuide, the URL for submitting assignment is now:

In the new system, you can:
- Upload a ZIP file if your assignment contains multiple documents.
- Select the different term when you submit your assignment.
- Specify a teacher responsible for your assignment.

Please feel free to contact us with your feedback.

CWEM Login

Enter your CWEM computing ID and password to log in to VeriGuide.

Computing ID: $0012345$
Password: $\ast\ast\ast\ast\ast$

If you cannot login, please try to login MyCUHK to test your account first.
Leniency Control

Harry in his magazine, The Quibbler. Fearing of his daughter's safety, he secretly told the Ministry about the presence of the trio in his house, but the trio successfully escaped.

With the knowledge of the presence of the Elder Wand, Harry was convinced that Voldemort was searching for the Elder Wand. As he accidentally spoke of the word "Voldemort," the trio was captured by the Snatchers and was imprisoned at the Malfoy Manor along with Luna, Dean, Olivander the wand maker and Griphook the goblin. As she found the Sword of Gryffindor in the trio's possession, Bellatrix Lestrange was afraid that the trio broke into her bank vault so she tortured Hermione for answer. Dobby the house elf later apparated into the manor and rescued Luna, Dean and Olivander, making Peter Pettigrew came to investigate the noise. He strangled Harry but his conscience reminded him that he owed a life debt to Harry and it caused Pettigrew to choke himself with his own hands in retribution. Harry and Ron ran upstairs and rescued Hermione. Ron slammed Bellatrix and Harry took Draco Malfoy's wand. Dobby reappeared and rescued the rest of them to the cottage of Bill and Fleur but as they escape, Bellatrix threw a knife at Dobby and killed him. At the cottage, Olivander confirmed the existence of the elder wand and he told the trio that the wand's allegiance would transfer to another person if he destroys or disarms the previous owner. Then, as Harry thought over what had happened in the manor, he remembered Bellatrix's behavior and was convinced that there is another Horcrux in her vault. Therefore they broke into Bellatrix's vault with the aid of Griphook, in exchange of the Sword of Gryffindor as it was actually goblin made. They retrieved the Hufflepuff Cup Horcrux. At the meanwhile, Voldemort stole the Elder Wand from Dumbledore's tomb as he believed that the wand was the only wand that is powerful enough to let him kill Harry. Voldemort then unintentionally revealed the existence of a Horcrux in Hogwarts.

The trio then traveled to Hogwarts. They warned the staff of the coming invasion of Voldemort. Harry also learnt that Runcound's Diadem was a Horcrux, while Hermione cleverly used the fang of Nagini left in the Chamber of Secrets to destroy the cup Horcrux. Harry then recalled seeing the diadem in the Room of Requirements and the trio went there. Malfoy, Crabbe and Goyle attacked them there while Crabbe misjudged the Fiendfyre spell and killed himself along with destroying the diadem. Harry took another small look into Voldemort's mind, leading the trio going to the Shrieking Shack. Inside, they witness the killing of Snape by Nagini as Voldemort believed that Snape defeated Dumbledore. As Snape was dying, he gave Harry his memory and that showed his loyalty to Dumbledore due to his love to Luna. Harry arrived, he let Voldemort use the killing curse on him. Harry didn't know if he's alive or not. Dumbledore appeared and told him that the Horcrux part in Harry had been destroyed and Harry would live on as Voldemort used Harry's blood to create his new body, which made Harry undefeatable. Harry then confronted Dumbledore and had a conversation with Harry Potter that Dumbledore was not the master of the wand but later Harry took Malfoy's wand so Harry became the wand's true master. Harry took the Elder Wand and cast the Disarming spell at Voldemort while Voldemort returned with the killing curse. As the Elder Wand was the most powerful wand, it backfired Voldemort's killing curse and Voldemort died. After the fight, Harry went to the Headmaster's office and Dumbledore's portrait of himself keeping the Invisibility Cloak and would return the Elder Wand to Dumbledore. It was as if he would remain undestroyed when he dies, the power of the wand will be extinguished. The Dumbledore in the portrait approved. Just before returning the wand, Harry used it to repair his own wand.

After the whole adventure, there's the epilogue in the book. It is about what's going on nineteen years later. Harry and Ginny, Ron's sister got married and had two boys and a girl. Ron and Hermione also got married and had two children. The families met in the train station when their children were to attend a wizarding school, where a new family had to be formed. The time for Harry and Ginny was almost over. Harry is married to Ginny, and they have three children: James, Albus Severus, and Lily. Ron and Hermione are also married and have two children. Rose and Fred. The time for Harry was almost over. Harry is married to Ginny, and they have three children: James, Albus, and Lily. Ron and Hermione are also married and have two children. Rose and Fred. The time for Harry was almost over. Harry is married to Ginny, and they have three children: James, Albus, and Lily. Ron and Hermione are also married and have two children. Rose and Fred. The time for Harry was almost over. 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Leniency Control

Harry in his paper, The Quibbler. Fearing for Luna's safety, he had alerted the Ministry that the trio are there, but they escape. Harry is convinced Voldemort is seeking the Elder Wand. When he inadvertently speaks Voldemort's name, they are immediately captured by Snatchers and imprisoned at Malfoy Manor along with Luna, Dean, Ollivander and Griphook. Finding Griphook's sword among the trio's possessions, Bellatrix Lestrange worries they have broken into her Gringotts vault and tortures Hermione for answers.obby appars into the cellar and rescues Luna, Dean, and Ollivander, prompting Peter Pettigrew to investigate the noise.

Harry throttes Harry, but reminded that he owes a life debt. [HP3] Pettigrew loosens his grip, causing his own silver hand to choke him to death in retribution. Harry and Ron rush upstairs to rescue Hermione. Ron disarms Bellatrix and Harry takes Draco Malfoy's wand. Dobby reappears and rescues the rest of them to the cottage of Bill and Fleur Weasley so that they escape. Bellatrix throws a knife at Dobby and killed him. At the cottage, Ollivander confirmed the existence of the Elder Wand and he told the trio that the wand's allegiance would transfer to another person if he defeats or disarms the previous owner. Then, as Harry thought over what had happened in the manor, he remembered Bellatrix's behavior and was convinced that there's another Harry Potter in the vault. Therefore, they broke into Bellatrix's vault with the aid of Gringotts, in exchange of the Sword of Gryffindor as it was actually gobelin made. They retrieved the Hufflepuff's Cup Horcrux. Meanwhile, Voldemort stole the Elder Wand from Dumbledore's tomb as he believed the wand was the only wand that was powerful enough to let him kill Harry. Voldemort then unintentionally revealed the existence of a Horcrux in Hogwarts.

The trio then traveled to Hogwarts. They warned the staff of the coming invasion of Voldemort. Harry also learnt that Ravnivango's Diadem was a Horcrux, while Hermione cleverly used the fan of Nagini left in the Chamber of Secrets to destroy the Cup Horcrux. Harry then recalled seeing the diadem in the Room of Requirements and the trio went there. Malfoy, Crabbe and Goyle attacked them while Crabbe mishandled the Fiendfyre spell and killed himself along with destroying the diadem. Harry took another small look into Voldemort's mind, seeing the trio going to the Shrieking Shack. Inside, they witnessed Voldemort and Nagini. As Snape died, he gave Harry his memory and that showed his loyalty to Dumbledore due to his love to Lily Potter, Harry's mom. The memory also showed that it was Snape who sent the doe Patronus in the forest and it also revealed that Harry was a Horcrux. Resigned to death, Harry went to Voldemort's camp. He found the resurrection stone along the way and he summoned his parents, Sirius and Lupin's soul which comforted him and provided a safe passage. When Harry arrived, he let Voldemort use the killing curse on him. Harry didn't know if he was alive or not. Dumbledore appeared and told him that the Horcrux part in Harry had been destroyed and Harry would live as Voldemort used Harry's blood to create his new body, which made Harry undefeatable. Harry then killed Nagini and is dead. Neville Longbottom, who is a half-breed, inherit the master of the wand. But later Harry took Malfoy's wand so Harry became the wand's true master. Harry took the Elder Wand and cast the Disarming Spell at Voldemort while Voldemort returned with the killing curse. As the Elder Wand was the most powerful wand, it backfired Voldemort's killing curse and Voldemort died. After the fight, Harry went to the headmaster's office and spoke to Dumbledore's portrait about him keeping the invisibility cloak and would return the Elder Wand to Dumbledore's tomb as if he would remain unforgotten when he dies, the power of the wand will be extinguished.

The summary seems to be ended. After the whole adventure, there's the epilogue in the book. It is about what's going on nineteen years later. Harry and Ginny, Ron's sister married and had two girls. Ron and Hermione also got married and had two children. The families met in the train station when their children were too young to go to Hogwarts. Harry Potter was bothered that he would be distributed to the Slytherin House for the name of "Snape." Harry comforted him by telling him that the Sorting Hat takes the person's choice into account. Also, the story ended with the words, "The war that paralyzed Harry for nineteen years. All was well."
Leniency Control

Harry in his paper, The Quibbler. Fearing for Luna's safety, he has alerted the Ministry about the presence of the trio in his house, but the trio successfully escaped.

With the knowledge of the presence of the Elder Wand, Harry was convinced that Voldemort was searching for the Elder Wand. As he accidentally spoke the word "Voldemort," the trio was captured by the Snatchers and was imprisoned at the Malfoys Manor along with Luna, Dean, Olivander the wand master and Griphook the goblin. As she found the Sword of Gryffindor in the trio's possession, Bellatrix Lestrange was afraid that the trio broke into her bank vault so she tortured Hermione for answers. Dobby the house elf later apprehended into the manor and rescued Luna, Dean, and Olivander, making Peter Pettigrew come to investigate the noise. He strangled Harry but the Scorn reminded him that he owed a debt to Harry and it caused Pettigrew to choke himself with his own hands in retribution.

Harry and Ron ran upstairs and rescued Hermione. Ron disarmed Bellatrix and Harry took Draco Malfoy's wand. Dobby reappeared and rescued the rest of them to the cottage of Bill and Fleur Weasley but as they escape, Bellatrix threw a knife that killed Dobby. At the cottage, Olivander confirmed the existence of the elder wand and told him that the wand's allegiance would transfer to another person if he defect or disarms the previous owner. Then, as Harry thought over what had happened in the manor, he remembered Bellatrix's behavior and was convinced that there's another Horcrux in his hand. Therefore, he broke into Bellatrix's vault with the aid of Griphook, in exchange of the Sword of Gryffindor as it was actually goblin made. They retrieved the Hufflepuff's Cup Horcrux. At the meanwhile, Voldemort stole the Elder Wand from Dumbledore's tomb as he believed that the wand was the only wand that is powerful enough to let him kill Harry. Voldemort then unintentionally revealed the existence of a Horcrux in Hogwarts.

The trio then traveled to Hogwarts. They warned the staffs of the coming invasion of Voldemort. Harry also learnt that Rowena's Diadem was a Horcrux while Hermione cleverly used the fans of Nagini left in the Chamber of Secrets to destroy the Cup Horcrux. Harry then caught seeing the diadem in the Room of Requirement and the trio went there. Malfoy, Crabbe and Goyle attacked them there while Crabbe mishandled the Fiendfyre spell and killed himself along with destroying the diadem. Harry took another small look into Voldemort's mind, leading the trio going to the Shrieking Shack. Inside, they witness the killing of Snape by Nagini as Voldemort believed that Snape defected as a Dursley. As Snape was dying, he gave Harry his memory and that showed his loyalty to Dumbledore due to his love to Lily Potter, Harry's mom. The memory also showed that it was Snape who sent the doe Patronus in the forest and it also revealed that Harry was a Horcrux. Resigned to death, Harry went to Voldemort's camp. He found the resurrection stone along the way and he summoned his parents', Sirius' and Lupin's soul which comforted him as he measured. He also learned that Voldemort use the killing curse on him. Harry didn't know if he's alive or not. Dumbledore appeared and told him that the Horcrux part in Harry had been destroyed and Harry would live on as Voldemort used Harry's blood to create his new body, which made Harry undefinable. Harry then fell asleep, taking made Hargis to the Shrieking Shack. As Neville Longbottom fell dead, Voldemort took the Sword of Gryffindor from the Sorting Hat and used it to kill Nagini. As Neville killed Nagini, Harry challenges Voldemort as he knew he was the rightful owner of the Elder Wand as when he was a Child. But the tower, he unclenches beyond the master of the wand but later Harry took Malfoy's wand so Harry became the wand's true master. Harry took the Elder Wand and cast the killing spell at Voldemort while Voldemort returned with the killing curse. As the Elder Wand was the most powerful wand, it backfired Voldemort's killing curse and Voldemort dies. After the fight, Harry went to the headmaster's office and spoke to Dumbledore's portrait about him keeping the invisibility cloak and would return the Elder Wand to Voldemort when he's ready. A part of him would remain undefeated when he dies, the power of the wand will be destroyed. The Dumbledore in the portrait approved. Just before returning the wand, Harry used it to repair his own wand.

After the whole adventure, there's the epilogue in the book. It is all about what's going on nineteen years later. Harry and Ginny, Ron's sister got married and had two boys and a girl. Ron and Hermione also got married and had two children. The families met in the train station when their children were going to Hogwarts by train. Harry's son, Albus Severus Potter was worried that he would be distributed to the Slytherin House for the name of "Snape", Harry comforted him by telling him that the Sorting Hat takes the person's choice into account also. The story ended with the words: "The war had not paired Harry for nineteen years. All was well."
Summary

• Increased usage at CUHK
• Improvement in reduced plagiarism
• Accountable to government and stakeholders
• Being used for
  • Graduate School
  • Competitions
  • Grant proposals
  • Conferences
Conclusion

• Computer ethics is of paramount importance!
• Academic plagiarism is a serious problem!
• VeriGuide helps to uphold academic quality by promoting honesty and integrity in a fair environment

Welcome university invitations to conduct free campus-wide trial!
Our Team

- **Project Leader:**
  - Mr. Patrick Lau

- **Staff:**
  - Mr. Chi Hong Cheong
  - Ms. Sara Fok
  - Mr. Cho Fung Lam
  - Mr. Simon Mok
  - Mr. Ivan Yau
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"...the truth shall set you free.\textendash;Caltech's Motto

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- Associate Editor of IEEE Transactions on Neural Networks (IEEE TNN)
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- Board Member, Board of Governors, International Neural Network Society (INNS)
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- Chair, Task Force on the Future Directions of Neural Networks (IEEE CIS)
- Chair, SIG and Regional Chapters Committee for Asia and the Pacific, (INNS)
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- Director of International Programmes, Faculty of Engineering (ERGIP)
- Member of RGC Engineering Panel, The Hong Kong SAR Government
- Principal Investigator, Chief Technologist, and Co-Founder, The VeriGuide Project, CUHK

- General Chair, The Fourth ACM International Conference on Web Search and Data Mining (WSDM2011), February 2011, Hong Kong
- Program Co-Chair, IEEE WIC/ACM International Conference, August 31-September 3, 2010, Toronto, Canada
- Tutorial Speaker, Database Systems for Advanced Applications (DASFAA2010), April 1-4, 2010, Tsukuba, Japan

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Computer Ethics: A Case Study of Plagiarism in Higher Education, Irwin King
The 2nd International Workshop on Education Technology and Computer Science (ETCS2010), March 6-7, 2010, Wuhan, China
《易經》

天行健，君子以自強不息；
地勢坤，君子以厚德載物。