Writing & Academic Norms

Academic Misconduct: Cheating, Plagiarism, etc.

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Course materials: https://mmcheng.net/writing/

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Why writing is important?

Writing

$$Research = Re + search$$

- Scientific research is a process of creating, reorganizing and updating knowledge, as well as creatively using knowledge in new domains.
 - Novelty: creating > updating > use in new domains
 - Re-reorganizing: review paper

Why writing is important?

Writing

Academic paper: " ... contains original research results or reviews existing results. Such a paper ... will only be considered valid if it undergoes a process of peer review by one or more referees (who are academics in the same field) who check that the content of the paper is suitable for publication in the journal."

Ming-Ming Cheng Nankai University

https://en.wikipedia.org/wiki/Academic_publishing

Writina

Why writing is important?

Not only for the community, but also for your career

- Writing ability is obviously important for research jobs
- The ability of writing is also essential for other jobs
 - Ability to propose a new project
 - Ability to arrange research plan
 - Ability to justify results
 - A tiny project to mimic your career development

What's Academic Misconduct?



http://www.moe.gov.cn/srcsite/A02/s5911/moe_621/201607/t20160718_272156.html



大力弘扬优良学风,营造风清气正的学术生态

——教育部有关负责人就《高笔学校预防与处理学术不能行为办法》签记者问

2016-07-10 本項: 熱療部

当前位置: 首市 > 新闻 > 政策解读

为深入贯彻贸的十八大和十八届三中、四中、五中全会和习近平总书记系列重要讲话精神,全面推进依法给 校,有实现防尔和公法规论处理商等学校发生的学术不漏行为,靠造风清气正的学术环境,促进教学科研和学术研究 的健康发展,教育部验定了《商等学校经历与处理学术不漏行为办法》(以下商称《办法》)。日前,教育部有关 布表人旅研究制定验文中的存年者信仰部下了港的顺向。

1.问: 赦育界、学术界对于学术不嫌行为的预防和处理工作十分关注、请介绍一下《办法》起草的背景

答:优良学风是大学精神的集中体现, 是高等学校的立校之本, 风肃气正的学术生态是科学发展和教育事业兴 旺的越石, 在近一个时期以来, 南校学术不编行为时有发生, 即长了象功近利, 浮刷浮夸符学术风气, 造成了极为 负面的社会影响, 为此, 教育部近年来先后出台了《关于严肃处理高等学校学术不端行为的通知》《关于切实加强 和改进高等学校学风建设的实施象见》《学位论文作歌行为处理办法》等指导性文件;很多高校制定了处理学术不 综行为的印度: 声音校为由课行了一根不够行为效化。

对待学术不端行为,教育部及各高校的态度历来是明确的,就是"零容忍"。但在实践中也存在着查处学术不

端行为的依据不足,工作机制不完善,调查处理程序不规范,不同高校处理标准差别较大等问题,极大地制约了学

http://www.moe.gov.cn/jyb_xwfb/s271/201607/t20160719_272240.html

教育部:"对待学术不端行为,教育部及各高校的态度历来是明确的,就是"零容忍"。但在实践中也存在着查处学术不端行为的依据不足..."

Consequences of Academic Misconduct?



Fig.: A nuclear attack on academic reputation (Fig. source ²).

²https://www.sohu.com/a/293420614_612679

Consequences of Academic Misconduct?





Fig.: 学术体系基于信任,对不诚信行为严厉到残酷3。刑事犯罪都是无罪推论,学术不端不仅更多 时候需要自证,还会株连。

https://inews.gtimg.com/newsapp_bt/0/14914024767/641

9 / 43

³https://www.sohu.com/a/293420614_612679

Academic Misconduct

"... any action or attempted action that may result in creating an unfair academic advantage for oneself or an unfair academic advantage or disadvantage for any other member or members of the academic community" ⁴

⁴https://gsi.berkeley.edu/gsi-guide-contents/academic-misconduct-intro/

Academic Misconduct

Basic principles of academic behavior

- Respect intellectual property!
- Proper citations!
- Have your own contribution!
- Respect original source!
- DO NOT seek improper interests

Academic Misconduct

Typical academic misconduct behavior

- Plagiarism, including self-plagiarism
- Tampering the data
 - Using modified or selected data → change the interpretation
 - Tampering with others' academic achievements
- Improper authorship
- Duplicate submissions

Improper authorship

- Exclude authors made substantial contributions
- Include authors haven't made substantial contributions
- Include authors without their consent
- Authorship must be authorized
- Author ranking is inconsistent with their contrib.
- Fake info: author's title, organization, educational background, research experience, etc.

Duplicate submissions

Submit the same or slightly different papers

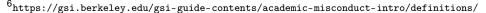
- to multiple journals simultaneously.
- to new journal before withdraw or receiving decision.

Journal extention must be given with

- clear explaintions and citations
- enough new contents

- Ineffective Study Habits
- Ineffective Time Management Skills or Overload
- Psychological Factors: e.g. unrealistic expectations of themselves
- Not Knowing the Boundaries
- Never simply copy & past (e.g. sentence, code)

- "Plagiarism is defined as the use of intellectual material produced by another person without acknowledging its source."
- Why it is important?



- Low Confidence in Writing Skills
- Unrealistic Expectations about Writing
- Poor, Careless, or Passive Note-Taking

⁷https://gsi.berkeley.edu/gsi-guide-contents/academic-misconduct-intro/plagiarism/

Causes of Plagiarism⁸

- Citation is Difficult
- Citation is Done During Editing
- Paraphrasing is Just Rewriting
- You Will Get Expelled if You Plagiarize Even Once

How to make reference?

Respect/protect the credit of the original source.

- DO NOT interpret out of context
- Limited to the necessity of argumentation
- As far back as possible to the original author
- References to unpublished work should be authorized
- References to oral presentation should be proofed
- References should be accompanied by obvious signs
- Cite peer-reviewed journal paper if possible
 - Journal > Conference > arXiv

How to make reference?

Proper references

- Missing related references
 - Intend to avoid comparisons
 - Pretend to be innovative
- Avoid fake reference: too many improper citations
 - Citations to unrelated paper of your friends
 - Citations to material that you don't really familiar
 - Self-citations to unrelated paper
 - Indirect reference to prior work

Avoid self-plagiarism

Duplicate or multiple publication

- Reuse similar or duplicate content for a new paper without proper reference.
- Copyright violation
- Make proper citation in journal extension

Example in Tsinghua

- Is an additional Master degree helpful or harmful?
- The change in the rule
- Should be avoid with caution

Not all academic misconducts are intended!

How to recognize plagiarism?

Does the student version borrow ideas from someone else's original source material?						
	No					
Is at least one for-word quote	Not plagiarism:					
Yes		No		No word-for-word and no paraphrasing plagiarism is present. Thus, the writing must be common		
Is the direct word-for-word quote missing any of the following: • quotation marks • full in-text citation that includes a specific locator • reference?		Is the paraphrased idea missing any of the following: • in-text citation • reference?				
Yes Word-for- word plagiarism	No Not word- for-word plagiarism	Yes Paraphrasing plagiarism	No Not paraphrasing plagiarism	knowledge or the writer's own ideas.		

Fig.: Criteria used for Indiana University: https://plagiarism.iu.edu/IUcriteria.html.

Academic misconduct vs. criminal offence

Academic misconduct

- Lifetime punishment
- Self proof

Serious criminal offence

- Severe punishment
- Presumption of innocence

Provide evidence for yourself!

Similar ideas are likely to occur

Q: How to prove yourself?

Good habit to avoid accademic misconduct 9

- Trustable Evidence:
 - Formal records with trusted time stamp.
 - E.g., private GitHub/Overleaf prjt., & emails
- Open source
- Safe co-authors

⁹https://mmcheng.net/ami/

Good habit: importance of formal records

Example: (Liu et. al. NPAR'17) vs. (Liao et. al. GitHub'17)

- Similar ideas are highly likely to occur.
 - Depth-Preserving Style Transfer, Ruizhi Liao, GitHub, 2017
 Depth-aware Neural Style Transfer, Xiao-Chang Liu *et. al.*, NPAR, 2017.
- Similarity: core idea, equation, pipeline figure, paper structure, use (Chen, et. al., NIPS 2016) for depth estimation.
- Reason: both work follow (Johnson et. al. ECCV'16)
- Proof: Lots of records for email discussion, inter-media results, etc.
- Good habit: private GitHub/Overleaf prjt., and emails.

- More CVPR papers?
- More citations?
- What problem you have solved?

 $\#papers \rightarrow EI \rightarrow SCI \rightarrow ESI \rightarrow Representive$

Assessments will be more reasonable!

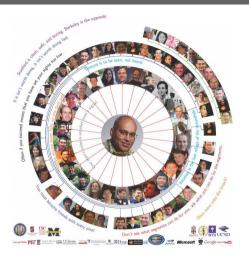


Fig.: J. Malik: "If it is not worth doing, it isn't worth doing fast". 10

 $^{^{10} {\}tt https://people.eecs.berkeley.edu/~malik/student-tree-2010.pdf}$

Copyright

Carefully avoid copyright issues¹¹, using, e.g. Flickr - Creative Commons license.

Avoid Misconduct 000000



Fig.: Vectorizing Cartoon Animations, IEEE TVCG 2019

//doresearch.stanford.edu/policies/research-policy-handbook/intellectual-property/copyright-policy

¹¹https:

Case study 1: Piero Anversa 12.

Harvard and the Brigham recommend 31 retractions for cardiac stem cell work

Retraction Watch readers may be familiar with the name Piero Anversa. Until several years ago, Anversa, a scientist at Harvard Medical School and the Brigham and Women's Hospital, was a powerful figure in cardiac stem cell research.

"For ten years, he ran everything," says Jeffery Molkentin, a researche at Cincinnati Children's whose law was among the first to question the basis of Anversa's results in a 2014 paper in Nature.



Piero Anversa



IHTMLI Bone marrow cells regenerate infarcted myocardium

..., B Nadal-Ginard, DM Bodine, A Leri, P Anversa - Nature, 2001 - nature.com

Myocardial infarction leads to loss of tissue and impairment of cardiac performance. The remaining myocytes are unable to reconstitute the necrotic tissue, and the post-infarcted heart ...

☆ Save ワワ Cite Cited by 7387 Related articles All 17 versions

https://m.huxiu.com/article/267190.html

¹² https://retractionwatch.com/2018/10/14/

Case study 2: Obokata Haruko 13

論文よく読んでいない? 小保方さん博士号にも疑惑



¹³https://dot.asahi.com/aera/2014032600015.html

Case study 3: Hungary's President Pal Schmitt 14

网易首页 > 新闻中心 > 热点新闻 > 正文

匈牙利总统因论文涉嫌抄袭提前下台

2012-04-03 01:36:32 来源: 新华网



核心提示: 匈牙利总统施密特4月2日宣布辞职, 随后国会投票通过了他的辞职声明, 根据相关法规,新总统必须在30日内由国会选出。施米特生于1942年,曾两度获得 奥运会击剑冠军, 1992年获匈牙利体育大学博士学位。目前其博士学位已被撤销。

7906

分享至





¹⁴ https://www.163.com/news/article/7U4MG1TB00014JB5.html

Case study 4: Not only text but also images!

Android Malware Detection: Multi Model Collaborative Detection System Based on Credibility

1st Vufan Li College of Cyber Science Nankai University

2nd Viwen Lin College of Computer science Nankai University

3rd Guoqing Zhao College of Cyber Science Nankai University

4th Kai Cheng College of Cyber Science Nankai University

MAMADROID: Detecting Android Malware by Building Markov Chains of Behavioral Models*

Enrico Mariconti[†], Lucky Onwuzurike[†], Panagiotis Andriotis[‡], Emiliano De Cristofaro[†], Gordon Ross[†], and Gianluca Stringhini[†] [†]University College London [‡]University of the West of England

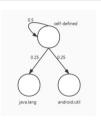


Fig. 1. Markov Chain Example

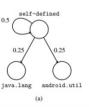


Fig. 5: Markov chains originating from Section II-C when using packages (a)

Case study 5: not even an author of the paper! 15

国外同行举报CVPR 2020中国论文一稿多投,作者之一华系还是本届CVPR领域主席



Frank

我们一起学AI,每天分享AI行业资讯以及学习内容!



1人赞同了该文章

来源:量子位

Fake news!

两篇论文作者相同、课题相同、结论高度相似…… CVPR 2020主会议开幕在即,本次大会中榜的两位中国学者却被指责"一稿多投">>>>

贾浩楠 发自 凹非寺 量子位 报道 | 公众号 QbitAI

¹⁵ https://zhuanlan.zhihu.com/p/148489400

Case study 6: Co-author could be dangerous! 16



Fig.: Misconduct by any author will significantly influence others, even if you have carefully written your part!

https://www.zhihu.com/question/527620020/answer/2436752217

¹⁶https://arxiv.org/abs/2203.14101

Case study 7: Focus on your own contributions!

```
@GetMapping("/exam/{examCode}")
public ApiResult findByld(@PathVariable("examCode") Integer examCode){
    System.out.println("根据 ID 查找");
    ExamManage res = examManageService.findByld(examCode);
    if(res == null) {
        return ApiResultHandler.buildApiResult(10000,"考试编号不存在",null);
    }
    return ApiResultHandler.buildApiResult(200,"请求成功! ",res);
    (该部分是对试卷进行增删的查操作的功能代码,重复文献,王怀_基于 Java Web 技术的易库在线考试系统的设计与实现,可能会存在代码结构和变量名重复的可能)
```

表 4-8 学生信息表的结构。

列名。	数据类型。	长度。	主键否。	可空否。	功能描述。
Studentid .	Varchar •	200	是。	否→	学生学号。
studentName	varchar.	20 0	否。	是+	学生名字。
Grade ₽	varchar.	10 0	否。	是。	年级。

Fig.: Past source code might increase duplicate rate.

Case study 8: Focus on your own contributions!

2.2 Spring Boot 技术。

Spring 框架是 Java 平台上一种应用框架, Spring 框架具有面向切面编程 (AOP) 框架, Spring AOP 框架是基于代理模式的,同时运行时可配置,AOP 框架则主要是针对模块之间的交叉关注点进行模块化。基于 Spring 的优秀特性, 设计出了一种 Spring Boot 框架。Spring boot 框架中有两个我们非常实用的策略, 第一个是开箱即用(Outofbox),在开发过程中,通过在 MAVEN 项目的 pom 文件中添加相关依赖包,然后使用对应注解来代替繁琐的 XML 配置文件。(重 复文献是 201600114221 翟志斌 大学本科毕业论文 翟志斌-《大学生》重复原 Fig.: Don not introduce the popular tools in detail!

Case study 9: 因论文抄袭不能正常毕业

- 不是人文学科
 - 经常要讨论经典论述而导致文字重复率高
- 计算机学科: 正常重复率应该远小干 5%
 - 查重率低不是没有抄袭的充分条件
- 查重率明显小干学校要求不意味着合格
- 查重只是预警,确认学术不端面临严重后果

文字拷贝后自己都极难发现! 更不能指望异师。

毕业论文(1) 作者:	· •
提交时间	2022-04-20 12:40:14
总相似比	6.31%
自写率	93.69%
复写率	6.31%
自引率	0.0%
引用率	0.0%
总字数	10255
重复字数	438

Specifics of this course

- Online study https://plagiarism.iu.edu/
- 《学术规范与论文写作指导》: 16 courses

Every student must submit the **Advanced Level Certificate** ¹⁷!

用WPS里面的pdf工具加入下述文字及自己电子签名:本人系统地学习了学术规范的相关要求,认可在学期间(包括学位/学术论文提交的查重版和待审版)如发生学术不端行为将面临延期毕业、勒令退学、撤销学位等后果。

Specifics

¹⁷ https://plagiarism.iu.edu/

Specifics: Submitting your certificate

- Required course for ALL students.
- Keep your pdf file in 200KB



Fig.: Submission link

Specifics: textbook and its author

- Obtained his PhD in 1983 from Cambridge University.
- Visiting professors of Tsinghua, Shandong University, and NUDT
- Authored over 300 papers
- 2014 Friendship Award, China



Fig.: The author: Prof. Ralph R. Martin

