

Research Ethics in Computer Science

Alberto José Proença

Seminar MAP-i 22nd January 2020



Keywords in Ethics

- Values that should be followed:
 - Truth, objectivity and honesty
 - Integrity and responsible publication
 - Respect for all living beings
 - Social respect for human beings (dignity, privacy, safety, ...)
- To avoid:
 - Scientific misconduct (FFP)
 - Questionable Research Practices (QRP)



Ethics of science and technology



Pages in category "Ethics of science and technology"

The following 60 pages are in this category, out of 60 total. This list may not reflect recent changes (learn more).

· Ethics of technology

- Anti-nuclear movement
- AOL search data leak
- Archimedean Oath
- Asilomar Conference on Beneficial Al
- · Australasian Journal of Bone & Joint Medicine

В

Sharon Beder

- Climatic Research Unit documents
- · Climatic Research Unit email controversy
- Computer ethics
- Computer Ethics Institute
- · Criticism of the IPCC Fourth Assessment Report
- · Cyprus Safer Internet Helpline
- · Cyprus Safer Internet Hotline

D

· Dipak K. Das

- Engineering ethics
- · Ethics in mathematics
- · Ethics of artificial intelligence

- Jim Falk
- · Federation of German Scientists
- Future Worlds Center

- The Hague Ethical Guidelines
- · Hippocratic Oath for scientists

- Impact of nanotechnology
- · Information ethics
- Infosphere
- · Institute for Ethics and Emerging Technologies
- · International Network of Engineers and Scientists for Global Responsibility
- International Society for Stem Cell Research

- Machine ethics
- Mad scientist
- Memory erasure
- · Military medical ethics
- Moral enhancement

Ν

- National Core for Neuroethics
- Neuroethics
- · Neuroethics Research Unit
- . The New Atlantis (journal)
- Nigeria ICT Fest
- Non-Nuclear Futures

Nuclear ethics

Nuffield Council on Bioethics

0

· Organizational technoethics

- Eduard Pernkopf
- Anil Potti
- · Pugwash Conferences on Science and World Affairs
- Student Pugwash USA

R

- Scott Reuben
- Robot ethics

S

- Scientists against Nuclear Arms
- · Scientists for Global Responsibility
- Kristin Shrader-Frechette
- Stefan Lorenz Sorgner

- Technocriticism
- Technology for peace
- Technorealism
- Ten Commandments of Computer Ethics
- · Ethics of terraforming
- Transhumanism
- Tunnel problem



Scientific misconduct



Scientific misconduct

From Wikipedia, the free encyclopedia

For dishonesty in educational settings, see Academic dishonesty. For unscientific claims presented as science, see Pseudoscience.

Scientific misconduct is the violation of the standard codes of scholarly conduct and ethical behavior in the publication of professional scientific research. A *Lancet* review on *Handling of Scientific Misconduct in Scandinavian countries* provides the following sample definitions:^[1] (reproduced in The COPE report 1999.)^[2]

- Danish definition: "Intention or gross negligence leading to fabrication of the scientific message or a false credit or emphasis given to a scientist"
- Swedish definition: "Intention[al] distortion of the research process by fabrication of data, text, hypothesis, or methods from another researcher's manuscript form or publication; or distortion of the research process in other ways."

Forms of scientific misconduct [edit]

The U.S. National Science Foundation defines three types of research misconduct: fabrication, falsification, and plagiarism. [8][9]

Other types of research misconduct are also recognized:

- Ghostwriting the phenomenon where someone other than the named author(s) makes a major contribution. Typically, this is done to mask contributions from authors with a conflict of interest.
- Conversely, research misconduct is not limited to not listing authorship, [citation needed] but also includes the act of conferring authorship on those that have not made substantial contributions to the research. [15][16] This is done by senior researchers





Research misconduct

Classification of misconduct (1)

Misconduct that distorts scientific knowledge

- Fabrication reporting of non-existent data
- Falsification selective reporting of data

Misconduct that misleads the scientific community

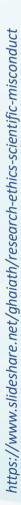
- Authorship: Plagiarism, 'Guest' authors, 'Ghost' authors
- Duplicate publication
- Abuse of the peer-review process

"FFP" = Fabrication, Falsification, Plagiarism

Classification of misconduct (2)

Misconduct relating to huma s bjects

https://www.slideshare.net/cjrw2/infamous-cases-of-research-misconduct





Research misconduct: the FFP

Research Misconduct (FFP)

Research misconduct is defined as fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results.

- Fabrication is making up data or results and recording or reporting them.
- Falsification is manipulating research materials, equipment, or processes, or changing or omitting data or results.
- Plagiarism is the appropriation of another person's ideas, processes, results, or words without giving appropriate credit.
- Research misconduct does not include honest error or differences of opinion.
- Research misconduct includes the destruction of, absence of, or accused person's failure to provide research records accurately documenting the questioned research.



'Ghost,' 'guest,' or 'gift' authorship

Publication Ethics

'Ghost,' 'guest,' or 'gift' authorship

OUP considers all forms of ghost, guest, and gift authorship to be unethical and works closely with editors and publishing partners to take a firm stance against such practices. Any allegation of ghost, guest, or gift authorship will be investigated in accordance with the COPE guidelines. Where such practices are identified the authors in question will be removed from an article through a post-publication correction or erratum. In addition the journal may choose to notify the institutional or local ethics committee for the authors in question.

'Ghost' authorship refers to the practice of using a non-named author to write or prepare an article for publication. Ghost authors are typically (but not exclusively) paid sponsors, employees, junior researchers, or external academic affiliates. 'Guest' or 'gift' authorship refers to the practice of naming an individual that made little or no contribution to a study as an author on an article. Gift authors are typically (but not exclusively) senior researchers, affiliated researchers, friends, or colleagues of the principle author. There are also organisations that offer gift authorship for a fee.



Policies and ethics



Publishing ethics

- **Authorship of the paper:** Authorship should be limited to those who have made a significant contribution to the conception, design, execution, or interpretation of the reported study. Transparency about the contributions of authors is encouraged, for example in the form of a CRediT author statement.
- **Originality and plagiarism:** The authors should ensure that they have written entirely original works, and if the authors have used the work and/or words of others, that this has been appropriately cited or quoted.
- **Data access and retention:** Authors may be asked to provide the raw data in connection with a paper for editorial review, and should be prepared to provide public access to such data.
- Multiple, redundant or concurrent publication: An author should not in general publish manuscripts describing essentially the same research in more than one journal or primary publication. Elsevier does not view the following uses of a work as prior publication: publication in the form of an abstract; publication as an academic thesis; publication as an electronic preprint. Note: some society-owned titles and journals that operate double-blind review have different policies on prior publication. Information on prior publication is included within each Elsevier journal's guide for authors.
- Acknowledgement of sources: Proper acknowledgment of the work of others must always be given.
- **Disclosure and conflicts of interest:** All submissions must include disclosure of all relationships that could be viewed as presenting a potential conflict of interest.
- **Fundamental errors in published works:** When an author discovers a significant error or inaccuracy in his/her own published work, it is the author's obligation to promptly notify the journal editor or publisher and cooperate with the editor to retract or correct the paper.
- **Reporting standards:** Authors of reports of original research should present an accurate account of the work performed as well as an objective discussion of its significance.
- Hazards and human or animal subjects: Statements of compliance are required if the work involves chemicals,



Cases of misconduct

- The practice of plagiarism;
- The appropriation of someone else's intellectual creations, protected by the rules of intellectual property, without legal consent;
- 3. The fabrication of results or their falsification;
- 4. The use of false curricular information;
- 5. The presentation of the same work, wholly or partly, in later publications without explicit mention to the original source and the replicated parts;
- 6. The intentional distortion of results to support a particular guideline of the work or to satisfy other interests than the scientific truth;

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Research ethics



NEWS & OPINION

MAGAZINE

SUE

Research Ethics



Cloning Scientist Sentenced to 12 Years in Prison

Jef Akst | Jan 14, 2020

More than five years after his arrest, Li Ning of China Agricultural University is convicted of stealing nearly \$5 million of grant money.



Paper Used in Creationist Teaching Retracted After 30 Years

Ashley Yeager | Nov 11, 2019

Criticism of the paper first surfaced in 1994, and its author was accused of scientific misconduct.



https://www.enago.com/academy/principles-of-ethical-research/

Research ethics & misconduct





CENTROALGORITMI

Tracking published misconducts



Computer science paper retracted for plagiarism

Note to computer scientists: a publication is not a reconfigurable logic device.

The Journal of Circuits, Systems and Computers has retracted a 2010 article by a pair of Iranian researchers who put the paper together using previously published work that, simply put, they reconfigured for their own purposes.



The article, "Autonomous Group Testing Based
Fault Tolerance in Reconfigurable Logic Devices," was written (ostensibly, at least) by Javad Sababeh and Karim Mohammadi, of Iran
University of Science and Technology, in Tehran.

But according to the <u>retraction notice</u>, much of the paper was taken from work by two computer scientists at the University of Central Florida:



Retraction rates by country



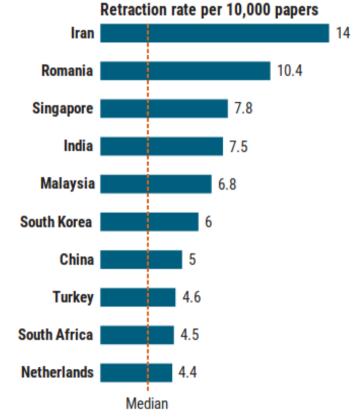
Main website Ir

Emil O. W. Kirkegaard blog

Scientific misconduct by ancestry/country

🚨 Emil O. W. Kirkegaard 🛗 6. October 2019 0 Comments 🔾

Countries with the highest retraction rates



(GRAPHIC) J. YOU/SCIENCE; (DATA) RETRACTION WATCH AND NSF;
METHODOLOGY

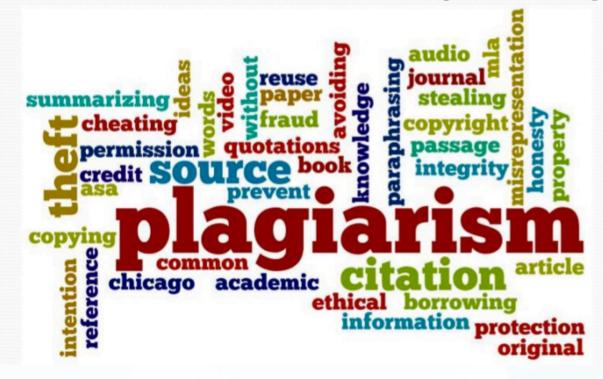


PLAGIARISM: DEFINITION

 "It is the practice of taking someone else's work or ideas and passing them off as one's own"

Definition brought by:

http://www.oxforddictionaries.com/es/definicion/ingles_americano/plagiarism



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About plagiarism





Understanding Plagiarism

Preventing Plagiarism

Teaching about Plagiarism

Plagiarism Checking

Plagiarism Research

Plagiarism Policy

Search

About Plagiarism.org

Plagiarism is a common (and often misunderstood) problem that is often the result of a lack of knowledge and skills. Our mission is to support the education community with a comprehensive set of resources to help students write with integrity.

What is Plagiarism?		
Plagiarism: Facts & Stats	Article	
Preventing Plagiarism when Writing	Article	

The latest from the blog

What Is Creative Commons

Anyway?

Published July 24, 2018

What is the creative commons? What does it have to do with plagiarism?

How Can I Properly Cite My Sources if I

Published July 24, 2018

How can you cite if you don't have all the info for your citation? How can you have all the info if you don't cite?

Academic Misconduct

Project: Part 2

Benchmarking Research

Is it Plagiarism if I Borrow Someone's Ideas

Published July 24, 2018

Can you plagiarize ideas, or can you only plagiarize words?

Latest resources

Paper

Benchmark Plagiarism Tariff

by P Tennant et al.

The results of a consultation exercise to

Paper

Academic Misconduct Benchmarking Research Project: Part 1 https://www.plagiarism.org/



Salami-slicing and plagiarism



Advances in Health Sciences Education (2019) 24:3–14 https://doi.org/10.1007/s10459-019-09876-7

EDITORIAL





Salami-slicing and plagiarism: How should we respond?

Martin G. Tolsgaard¹ · Rachel Ellaway² · Nikki Woods³ · Geoff Norman⁴

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One particularly odious task that every journal editor must confront from time to time is the investigation of a case of scientific fraud. We are not talking about blatant cases, where data are falsified; these are almost impossible to detect. Rather, a far more common occurrence is the deliberate use of previously published date and/or text—either the author's own or, more seriously plagiarized from other authors' publications. Three labels are attached to these acts: Plagiarism—copying from another author's published work; Autoplagiarism—duplication of previously published by the authors without clearly stating that this was the case; Salami-slicing—authors have published parts of a study in multiple papers instead of providing the full story in a single paper. These are not new problems in

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Guide to salami-slicing

Guide to Salami Slicing and How to Prevent It*

Action	What is it?	Is it unethical?	What should you do?
Breaking up or segmenting data from a single study and creating different manuscripts for publication	Publishing small 'slices' of research in several different papers is called 'salami publication' or 'salami slicing'.	Yes. Salami slicing can result in a distortion of the literature by leading unsuspecting readers to believe that data presented in each 'slice' is derived from a different subject sample. ²	Avoid inappropriately breaking up data from a single study into two or more papers. When submitting a paper, be transparent. Send copies of any manuscripts closely related to the manuscript under consideration. This includes any manuscripts published, recently submitted, or already accepted.

^{*}When in doubt, always consult with your professor, advisor, or someone in a position of authority who can guide you to the right course of action.

ethics.elsevier.com



The plagiarism spectrum (full)









The plagiarism spectrum (1)





#1 Clone

Submitting another's work, word-for-word, as one's own

SOURCE TEXT

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature. STUDENT WORK

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

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The plagiarism spectrum (2)





#2 CTRL+C

Contains significant portions of text from a single source without alterations

SOURCE TEXT

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature. STUDENT WORK

The Beautiful Yosemite Valley

From the time of its first discovery by non-indigenous people in the mid-nineteenth century Yosemite Valley has held a special, even religious, possession on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. And Yosemite holds a special grip on the western mind, while perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concern as man has become more attuned to his relationship and impact or nature.

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The plagiarism spectrum (3)





#3 Find – Replace

Changing key words and phrases but retaining the essential content of the source

SOURCE TEXT

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

STUDENT WORK

A Beautiful Setting in Yosemite

Since its first discovery by non-native people in the mid-19th century Yosemite Valley has held a special, even sacred, hold on the American psyche because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mindset, perceptions about the Valley have evolved over time due to changing political movements, migration patterns and environmental issues as man has become more attuned to their relationship and impact on nature.

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The plagiarism spectrum (4)





#4 Remix

Paraphrases from multiple sources, made to fit together

SOURCE TEXT

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

STUDENT WORK

An Untouched View A History of Settlement and Change in Yosemite Valley

The first non-natives to see Yosemite Valley were probably members of the mid-nineteenth century Joseph Walker Party, who crossed the Sierra Nevada from East to West. The first descriptions of Yosemite came almost 20 years later. From the start, the valley has been renowned for its natural beauty, and highly regarded as he center-piece of Yosemite National Park, attracting visitors from around the world. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to their relationship and impact on nature.

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The plagiarism spectrum (5)





#5 Recycle

Borrows generously from the writer's previous work without citation

SOURCE TEXT

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature. STUDENT WORK

Ecology 201

An Unnatural Expectation: The Impact of Exploration and Settlement in Yosemite Valley

From its first discovery by the Ahwahnechee in the mid-nineteenth century Yosemite Valley has held a unique, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time reflecting changing politics, human migration patterns and the rise of environmental concerns as man has become more attuned to his relationship and impact on nature.

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The plagiarism spectrum (6)





#6 Hybrid

Combines perfectly cited sources with copied passages without citation

SOURCE TEXT

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

STUDENT WORK

A Natural Setting A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. "Native Americans have lived in the Yosemite region for as long as 8,000 years. The first people that we have record of was a band of Native Americans that called the Valley "Ah-wah-nee" and themselves the Ahwahnechee." While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

1 "Yosemite Valley." Wikipedia. Wikipedia. 20 Apr. 2012. http://en.wikipedia.org/wiki/Yosemite Valley>



The plagiarism spectrum (7)





#7 Mashup

Mixes copied material from multiple sources

SOURCE TEXT

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

STUDENT WORK

A Natural Setting A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century Yosemite Valley has held a special, even religious, hold on the American conscience. The work of Ayres gave easterners an appreciation for Yosemite Valley and started a move-ment to preserve it. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to their relationship and impact on nature. The 1849 California Gold Rush led to conflicts between miners and natives, and the volunteer Mariposa Battalion was formed by the state of California as a punitive expedition against natives in the Yosemite area.

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The plagiarism spectrum (8)





#8 404 Error

Includes citations to non-existent or inaccurate information about sources

SOURCE TEXT

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

STUDENT WORK

Perceived Beauty: Man's Nature
Exploration and Settlement in Yosemite Valley

"Since its first discovery by the Joseph Walker Party in the midnineteenth century"

"Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all

'special temples of Nature."

"While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to their relationship and impact on nature."

- 1 For an insightful discussion of Walker's expedition, including an extended description of their first sight of Yosemite Valley, see Walker's original piece in The Golden Times. May 5, 1833: p. 4. Print.
- 2 Bloom, H. "Aesthetics of the Found: The 'Nature' of the Natural." Aesthetics and the Found. November 2000: 18-22. Print.
- 3 Huang et al. "Politics, Policy, and the Environment." Nature and Society. 25.3 (1997): 127-53. Print.



The plagiarism spectrum (9)





#9 Aggregator

Includes proper citation to sources but the paper contains almost no original work

SOURCE TEXT

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature. STUDENT WORK

A Natural Setting: A History of Exploration and Settlement in Yosemite Valley ¹

Yosemite Valley was first sighted by non-Indians in 1833 by Joseph Rutherford Walker and his group of explorers. ² Yosemite has a long and diverse cultural history that helped to shape the region, country, and even the world. ³ While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to their relationship and impact on nature. ⁴

- 1 Harrick, C. "A Natural Setting." Nature and its Discontents 23.1 (1996): 41-50. Print.
- 2 "History of Yosemite," Yosemitegold.com Ace & Friends, n.d. Web. 24 Apr. 2012. http://www.yosemitegold.com/yosemite/history.html
- 3 "Yosemite National Park Cultural History," Yosemitepark.com DNC Parks and Resorts at Yosemite, Inc., n.d. Web. 24 Apr. 2012. http://www.yosemitepark.com/cultural-history.aspx
- 4 Harrick, C. "A Natural Setting," p. 41.



The plagiarism spectrum (10)





#10 Re-Tweet

Includes proper citation, but relies too closely on the text's original wording and/or structure

SOURCE TEXT

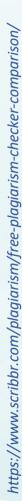
A Natural Setting: A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the midnineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature. STUDENT WORK

A History of Exploration and Settlement in Yosemite Valley

From its earliest discovery by non-indigenous people in the midnineteenth century Yosemite Valley has held a spiritual hold on the American conscience; its beauty is incomparable and has been held up as one of the grandest of all special temples of Nature. While Yosemite has a special grip on the western mind, impressions about the Valley have evolved over time, shaped by changing politics, migration patterns and environmental concerns as mankind has become more attuned to its relationship and impact on nature. ¹

1 Harrick, C. "A Natural Setting." Nature and its Discontents 23.1 (1996): 41-50. Print.









Free plagiarism checker comparison

Date published November 28, 2018 by Raimo Streefkerk. Date updated: September 9, 2019

Free plagiarism checkers are popular. Many students, marketers and text writers use them to avoid plagiarism. We conducted research to answer two main questions:

- 1. Which plagiarism checkers are **really free**?
- 2. How much **plagiarism is detected** by each plagiarism checker?

Overview of free	plagiarism	checkers
------------------	------------	----------

Plagiarism checker	Plagiarism detected	Really free?	Restrictions
♀ Scribbr	44%	Not free	Best plagiarism checker 2019
1. Quetext	29%	Only free trial	3 x 500 words
2. EasyBib	19%	Only free trial	3 days (credit card required)
3. PlagScan	17%	Only free trial	2,000 words
4. Plagramme	16%	Not free	Only shows percentage
5. Copyleaks	7%	100% free	2,500 words p/m for free
6. Small SEO Tools	5%	100% free	Max. 1,000 words per check
7. Grammarly	1%	Not free	Only shows percentage
8. Search Engine Reports	4%	100% free	Max. 1,000 words per check
9. PaperRater	0%	100% free	10 checks per month
10. Edubirdie	4%	100% free	Might not be safe to use

https://www.digitalgyd.com/top-20-best-online-plagiarism-checker-tools-free/



Plagiarism checkers (2)





Here is the list of top 20 best plagiarism checker tools in 2020:

- 1. Grammarly
- 2. Whitesmoke
- 3. ProWritingAid
- 4. Duplichecker
- 5. PlagiarismCheck.org
- 6. Quetext
- 7. Small SEO Tools Plagiarism Checker
- 8. Copyleaks
- 9. Viper
- 10. CheckForPlagiarism.net
- 11. WordPress Plugin
- 12. Plagium
- 13. Plagiarism Checker
- 14. Copyscape
- 15. DMCA Scan
- 16. Dustball
- 17. Webconf Tool
- 18. Plagtracker
- 19. Plagiarisma
- 20. Unicheck



When plagiarism goes up to the Education Minister...





Plagiarism case in Brasil

Dissertação de mestrado de Wilson Witzel tem 63 parágrafos copiados de 6 autores

Matheus Magenta Da BBC News Brasil em São Paulo

13 setembro 2019











O texto foi atualizado às 14h20 de 14 de setembro de 2019.

A dissertação de mestrado defendida pelo então juiz federal Wilson Witzel, hoje governador do Rio de Janeiro pelo PSC, tem ao menos 63 parágrafos copiados de trabalhos publicados por outros seis autores, incluindo um artigo inteiro e a íntegra de um capítulo de outro texto.



Plagiarism case in Pt (1)



ECONOMIA EXPRESSO CURTO

TRIBUNA AO VIVO NA REDAÇÃO

LUSA

Ministério Público pede que autarca de Torres Vedras vá a julgamento por plágio na tese de doutoramento

21.10.2019 às 16h49









Em abril deste ano, o MP acusou o autarca de um crime de contrafação, por alegado plágio de 40 textos originais na sua tese de doutoramento "As linhas de Torres, um destino turístico estratégico para Portugal", que foi defendida em dezembro de 2015 e obteve aprovação pelo júri

33



Plagiarism case in Pt (2)



UP ACADEMIA GRANDE PORTO PORTUGAL CULTURA

PÁGINA INICIAL / DESTAQUE PRINCIPAL



Professora da FLUP sob suspeita de plágio







Três artigos de Teresa Cierco Gomes foram, este ano, retratados em publicações científicas internacionais. Docente nega intenção de plágio. Direção da FLUP convoca reunião. Professor norte-americano explica ao JPN como se envolveu no caso.





Plagiarism case in Pt (3)



ENSINO SUPERIOR

O caso do plágio académico que o autor não consegue explicar

Ensaio publicado *online* por Pedro Vaz Serra, da Universidade de Coimbra, copiava o conteúdo de um artigo de 2012 de duas investigadoras do ISCTE. O autor do plágio diz não ter explicação para o sucedido.

Samuel Silva . 11 de Agosto de 2016, 7:26









O autor do plágio não é um jovem. Licenciou-se há 26 anos em Economia e foi presidente do Clube de Empresários de Coimbra. Foi também gestor do BPP, de onde foi afastado por burla Chama-se *Igualdade de Género e Partidos Políticos: da representação de mulheres nos órgãos de decisão dos cinco maiores partidos políticos, em Portugal* e é um ensaio, publicado *online*, que se tornou polémico nas últimas semanas entre a comunidade académica. O texto é assinado por Pedro Vaz Serra, um antigo gestor, de 50 anos, que está a fazer um mestrado na Universidade de Coimbra, mas que em parte copia o conteúdo de um artigo científico publicado quatro anos antes por Maria Helena Santos e Lígia Amâncio, investigadoras do Instituto Superior de Ciências do Trabalho e da Empresa (ISCTE). O autor do plágio diz não ter explicação para o sucedido.

Maria Helena Santos, uma das autoras do artigo original, encontrou um pouco por acaso o artigo de Vaz Serra na plataforma Academia.edu — uma rede social onde cientistas de todo o mundo podem partilhar os seus trabalhos. "Ao ler o texto, verifiquei imediatamente que o autor tinha copiado vários parágrafos inteiros de trabalhos meus", conta a investigadora que,





O caso obrigou à intervenção da reitoria da Universidade de Coimbra ENRIC VIVES-RUBIO



A plagiarism I detected: the original paper

Computer Science for Nanotechnology: Needs and Opportunities

Boonserm Kaewkamnerdpong and Peter J. Bentley

Department of Computer Science, University College London, UK

Abstract

For many decades, nanotechnology has been developed with cooperation from researchers in several fields of studies including physics, chemistry, biology, material science, engineering, and computer science. In this paper, we explore the nanotechnology development community and identify the needs and opportunities of computer science research in nanotechnology. This paper is intended to benefit computer scientists who are keen to contribute their works to the field of nanotechnology and also nanotechnologists from other fields by making them aware of the opportunities from computer science. It is hoped that this may lead to the realisation of our visions.

Introduction

In 1959, Richard Feynman, a future Nobel Laureate, gave a visionary talk entitled "There's Plenty of Room at the Bottom" on miniaturization to nanometre-scales. Later, the work of Drexler [1,2] also gave futuristic visions of nanotechnology. Feynman and Drexler's visions inspired many researchers in physics, material science, chemistry, biology and engineering to become nanotechnologists. Their visions were



A plagiarism I detected: the original and the copy

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Kaewkamnerdpong, Boonserm, and Peter J. Bentley. "Computer science for nanotechnology: Needs and opportunities." *Proceedings of the 5th International Conference on Intelligent Processing and Manufacturing of Materials (IPM M)*. 2005

Digest Journal of Nanomaterials and Biostructures Vol. 4, No. 1 March 2009



COMPUTATIONAL NANOTECHNOLOGY: AN ASSESSMENT

DIVYA RANJAN^{a*}, ANIL K. TRIPATHI^b

^aDepartment of Computer Science, Faculty of Science, Banaras Hindu University, Varanasi- 221005, INDIA

^bDepartment of Computer Engineering, Institute of Technology, Banaras Hindu University, Varanasi- 221005, INDIA

For many decades, nanotechnology has been developed with cooperation from researchers in several fields of studies including physics, chemistry, biology, material science, engineering, and computer science. In this paper, we explore the nanotechnology development community and identify the needs and opportunities of computer science research in nanotechnology. This paper is intended to benefit computer scientists who are keen to contribute their works to the field of nanotechnology and also nanotechnologists from other fields by making them aware of the opportunities from computer science. It is hoped that this may lead to the realization of our visions.

(Received March 5, 2009; accepted March 28, 2009)

Keywords: Computational analysis, nanotechnologies, nanomanipulators

1. Introduction

In 1959, Richard Feynman, a future Nobel Laureate, gave a visionary talk entitled "There's Plenty of Room at the Bottom" on miniaturization to nanometre-scales Later, the work of Drexler [1, 2] also gave futuristic visions of nanotechnology. Feynman and Drexler's visions



A plagiarism I detected: email sent to the Editor & Author

From: Alberto Proenca aproenca@di.uminho.pt>

To: mpopescu@infim.ro

Cc: b.kaewkamnerdpong@ucl.ac.uk; P.Bentley@cs.ucl.ac.uk; boonserm.kae@kmutt.ac.th

Sent: Thursday, January 27, 2011 9:26 PM

Subject: Plagiarism in Digest J Nanomat & Biostruct

Dear Prof Mihai Popescu

I did find in

Digest Journal of Nanomaterials and Biostructures Vol. 4, No.1, March 2009, p. 233 - 241,

the paper computational nanotechnology: an assessment, with the authors divya ranjan, anil K. Tripathi.

which is a full copy of the communication included int the

Proceedings of the 5th International Conference on Intelligent Processing and Manufacturing of Materials (IPMM'05), July 19-23, California, USA, 2005.

with the title Computer Science for Nanotechnology: Needs and Opportunities by Boonserm Kaewkamnerdpong and Peter J. Bentley

I have included both papers as attached files.

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If you already detected this earlier, I would like to know what actions have you taken to disseminate this unethical action by the 2 indian authors.



A plagiarism I detected: the Editor reply

From: MIHAI POPESCU pop_al.mihai@yahoo.com Subject: Re: Plagiarism in Digest J Nanomat & Biostruct

Date: 28 January 2011 at 09:43

To: Alberto Proenca aproenca@di.uminho.pt

Dear Prof. Proenca,

Very sorry indeed for this case of plagiarism. Today we decided in the Board.

- 1. To cancel from the site this article or to put as authors the correct authors if Boonserm Kaewkamnerdpong and Peter J. Bentley agree!
- 2. To give interdiction for ever to the incriminated authors to publish in our journal
- 3. To write to the institution of the incrminated authors to be punished

Keep in touch for other details, for example to write on the site of DJNB the incrimination of these authors and the decision to withdraw the paper. Just now I shall contact again Prof. Bentley.

Regards and thanks,

Prof. Mihai POPECU Editor in Chief DJNB

Questionable Research Practices



Questionable Research Practices

P-Hacking

Analyzing the data until desired results are found (also called data torture).

Non-Transparent Reporting

Not disclosing information that may affect how the results are interpreted.

Too Small Samples

Conducting studies with too low statistical power can be ethically problematic because the research questions are less likely to be answered.

Optional Stopping

Collecting more - or less - data than planned, to achieve lower p-values

HARKing

Stands for Hypothesizing After Results are Known, which means incorrectly reporting exploratory analyzes as confirmatory (post hoc hypothesizing).

Publication Bias

Selective reporting of results and/or studies (sometimes called 'the file drawer problem').

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Questionable Research Practices

RESEARCH ARTICLE

Questionable research practices in student final theses – Prevalence, attitudes, and the role of the supervisor's perceived attitudes

Anand Krishna¹*, Sebastian M. Peter²

1 Department of Motivational and Emotional Psychology, Julius-Maximilians-Universität, Würzburg, Germany, 2 Department of Social Psychology, Julius-Maximilians-Universität, Würzburg, Germany

Abstract

Although questionable research practices (QRPs) and p-hacking have received attention in recent years, little research has focused on their prevalence and acceptance in students. Students are the researchers of the future and will represent the field in the future. There-

^{*} krishna@psychologie.uni-wuerzburg.de



List of common QRP's

QRP

- 1. In a paper, failing to report all of a study's dependent measures
- Deciding whether to collect more data after looking to see whether the results were significant
- 3. In a paper, failing to report all of a study's conditions
- Stopping collecting data earlier than planned because one found the result that one had been looking for
- 5. In a paper, "rounding off" a p value (e.g., reporting that a p value of .054 is less than .05)
- In a paper, selectively reporting studies that "worked"
- 7. Deciding whether to exclude data after looking at the impact of doing so on the results
- 8. In a paper, reporting an unexpected finding as having been predicted from the start
- 9. In a paper, claiming that results are unaffected by demographic variables (e.g., gender) when one is actually unsure (or knows that they do)
- 10. Falsifying data







ACM Code of Ethics and Professional Conduct

ACM Code of Ethics and Professional Conduct

Professional Conduct

Preamble

Computing professionals' actions change the world. To act responsibly, they should reflect upon the wider impacts of their work, consistently supporting the public good. The ACM Code of Ethics and Professional Conduct ("the Code") expresses the conscience of the profession.

On This Page

Preamble

- 1. GENERAL ETHICAL PRINCIPLES.
- 1.1 Contribute to society and to



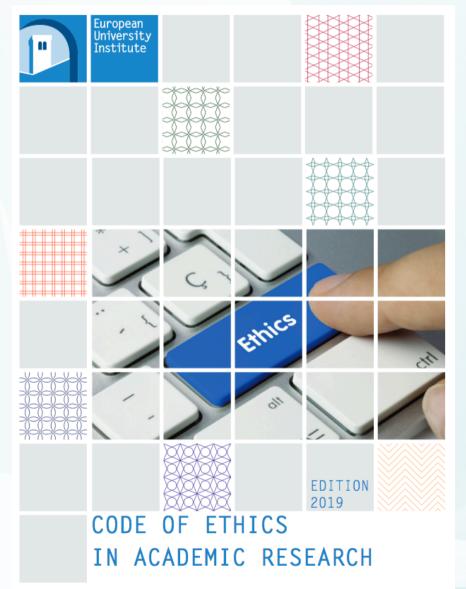
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Code of Ethics

IEEE-CS/ACM Joint Task Force on Software Engineering Ethics and Professional Practices

CENTROALGORITMI

Code of Ethics in European Academic Institutions





The European Code of Conduct



The European Code of Conduct for Research Integrity

REVISED EDITION



Code of Ethics in Cambridge University





Code of Ethical Conduct at University of Minho



Código de Conduta Ética da Universidade do Minho

University of Minho Code of Ethical Conduct

Comissão de Ética da Universidade do Minho (CEUM)
Julho de 2012
University of Minho Ethics Committee (CEUM)



Academic and Research Ethical Conduct at UMinho

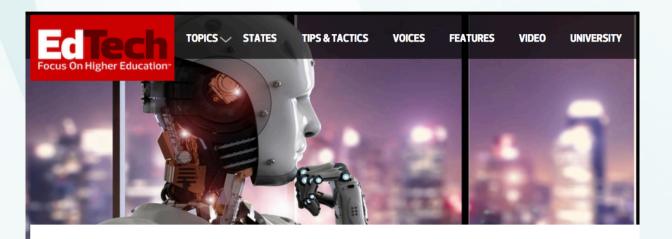
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Alberto Proença

https://edtechmagazine.com/higher/article/2018/05/4-ways-colleges-can-address-ethics-in-computer-science

Ethics Education in CS





MAY **04** 2018

MANAGEMENT

4 Ways Colleges Can Address Ethics in Computer Science



The next generation of technologists will debate new questions around emerging IT.





by Erika Gimbe



 $\label{thm:eq:continuous} Erika \ Gimbel\ is\ a\ Chicago-based\ freelance\ writer\ who\ specializes\ in\ B2B\ technology\ innovation\ and\ educational\ technology.$

Less than two years ago, a Danish research team released the data of nearly 70,000 people who used a popular dating site so that it would be available for public study. More recently, we've learned how Facebook uses our data, Twitter bots share links and a popular education company collected student test data for a research project.



Ethics Education in CS (Harvard) CENTROALGORITM

(J) JANUARY 29, 2019

Embedding ethics in computer science curriculum

Robot

Systems

by Paul Karoff, Harvard University

Great Ideas The ethics of electronic privacy in Computer Science Introduction Morally responsible software engineering to Computer Science II Networks Facebook, fake news, and ethics of censorship Programming Verifiably ethical software systems Languages Design of Inclusive design and equality of opportunity Useful and Usable Interactive Systems Introduction Machines and moral decision making to Al Autonomous Robots and work

PHYS (0)

Alberto Proenço



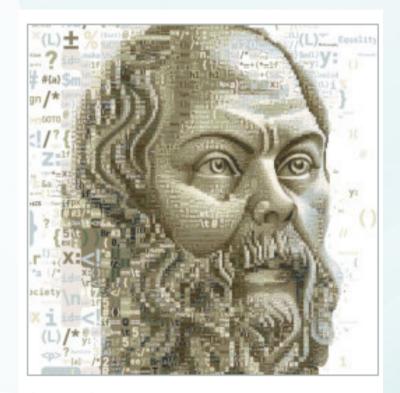
Ethics Education in CS (Harvard) CENTROALGORITM

DOI:10.1145/3330794

A Harvard-based pilot program integrates class sessions on ethical reasoning into courses throughout its computer science curriculum.

BY BARBARA J. GROSZ, DAVID GRAY GRANT, KATE VREDENBURGH, JEFF BEHRENDS, LILY HU, ALISON SIMMONS, AND JIM WALDO

Embedded EthiCS: Integrating Ethics Across CS Education



Credit: Charis Tsevis



Ethics Education in CS (Harvard) CENTROALGORITM



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	Course	Course Level	Module	Module Author
~	CS 134: Networks	Upper-level undergraduate	Facebook, Fake News, and the Ethics of Censorship	David Gray Grant
Z	CS 61: Systems Programming and Machine Organization	Introductory undergraduate	ASCII, Unicode, and the Ethics of Natural Language Representation	Cat Wade
~	CS 152: Programming Languages	Upper-level undergraduate	Ethics in Software Verification and Validation	David Gray Grant
~	CS 165: Data Systems	Upper-level undergraduate	Privacy in the Design of Data Systems	Kate Vredenburgh
~	CS 181: Machine Learning	Upper-level undergraduate	Discrimination and Machine Learning	Kate Vredenburgh
~	CS 263: Systems Security	Graduate	The Ethics of Hacking Back	David Gray Grant



Ethics Education in CS (Princeton)

I AND ETHICS



Case Study PDFs

Below are a set of fictional case studies that are designed to prompt reflection and discussion about issues at the intersection of AI and Ethics. These case studies were developed out of an interdisciplinary workshop series at Princeton University that began in 2017-18. They are the product of a research collaboration between the University Center for Human Values (UCHV) and the Center for Information Technology Policy (CITP) at Princeton. Click the title of each case study to download the full document.

Case Study 1: Automated Healthcare App

Issues:

Foundations of legitimacy, Paternalism, Transparency Censorship, Inequality

Case Study 2: Dynamic Sound Identification

Issues:

Rights, Representational harms, Neutrality,
Downstream responsibility

Case Study 3: Optimizing

Schools Issues:

Privacy, Autonomy, Consequentialism, Rhetoric

Case Study 4: Law Enforcement Chatbots

Issues:

Automation, Research ethics, Sovereignty

Case Study 5: Hiring By Machine

Issues:

Fairness, Irreconcilability, Diversity, Capabilities, Contextual integrity

Case Study 6: Public Sector Data Analytics

Issues:

Democracy, Secrecy, Inequality, Fallibility, Determinism



Al vehicle- and person-recognition software

nature

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NEWS Q&A · 26 JULY 2018 · CLARIFICATION 31 JULY 2018

The ethics of computer science: this researcher has a controversial proposal

Nature talks to Brent Hecht, who says peer reviewers must ensure that researchers consider negative societal consequences of their work.

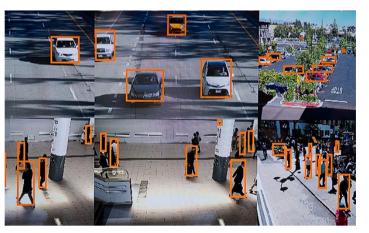
Elizabeth Gibney











Al vehicle- and person-recognition software is at the centre of an ethical debate. Credit: Saul Loeb/AFP/Getty

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Why scientists must share their research code

Computer science: The learning machines

SUBJECTS



Ethics-aware software eng.

A Roadmap for Ethics-Aware Software Engineering

Fatma Başak Aydemir Utrecht University The Netherlands f.b.aydemir@uu.nl Fabiano Dalpiaz Utrecht University The Netherlands f.dalpiaz@uu.nl

ABSTRACT

Today's software is highly intertwined with our lives, and it possesses an increasing ability to act and influence us. Besides the renown example of self-driving cars and their potential harmfulness, more mundane software such as social networks can introduce bias, break privacy preferences, lead to digital addiction, etc. Additionally, the software engineering (SE) process itself is highly affected by ethical issues, such as diversity and business ethics. This paper introduces ethics-aware SE, a version of SE in which the ethical values of the stakeholders (including developers and users) are captured, analyzed, and reflected in software specifications and in the SE processes. We propose an analytical framework that assists stakeholders in analyzing ethical issues in terms of subject (software artifact or SE process), relevant value (diversity, privacy, autonomy, ...), and threatened object (user, developer, ...). We also define a roadmap that illustrates the necessary steps for the SE research and practice community in order to fully realize ethics-aware SE.

coined different terms to study the many facets of this interplay between social and technical systems, including social software engineering [1], socio-technical systems (engineering) [2–4], and social computing [5, 6].

For the selection and purchase of non-software goods and services, people are increasingly taking into serious account *ethical aspects* [7, 8] besides the more traditional criterion of costeffectiveness. People are rightfully concerned about how goods are produced (e.g., do subcontractors use child labor? Is fair payment guaranteed?), what is the cost for the environment (e.g., what is the carbon footprint? Are the raw materials obtained without poisoning or destroying natural ecosystems?), and what substances goods contain that may have negative side-effects on people's health (e.g., are there any pesticides in the food? Do any of the ingredients lead to some kind of addiction?).

We advocate that similar questions should be asked for the software products we use, and ethics should play a role in the decisions of end-users, customers, industry professionals, and companies



Research Ethics courses Worlwide

Introduction to Research Ethics - Online Course - FutureLes University Integrity of Montana with Office of Research Ethics of Research Ethics of Research Integrity of Montana with Office of Research In Online Research Ethics Course Research Ethics and Integrity

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honesty, integrity and research ethics are underlying tenets for ...

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Research Ethics courses in Pt: New University of Lisbon

RESEARCH ETHICS COURSE





RESEARCH ETHICS COURSE



The course is extremely important; tutors are very competent. Positive aspects are the constant reference to real cases, without neglecting the theory.

NOVA PhD Student

"

WHAT IS IT?

Key Topics

- Fundamentals of Ethics and Bioethics
- The History of Research Ethics
- Scientific Misconduct
- Conflicts of interest and Publishing biases
- Ethical Planning and Conduction of a Research Project

Research Ethics courses in Pt: University of Beira Interior





Início > Eventos > Curso Doutoral de Verão 2019 "Ética da/na Investigação"

Curso Doutoral de Verão 2019 "Ética da/na Investigação"

Formação dirigida a doutorandos e investigadores.

m De 25 a 26 de junho de 2019

Programa

25 de junho (terça-feira)

10h00 | Receção dos participantes e acreditação

10h30 | Abertura - Reitor da UBI (a confirmar); Presidente do ICI

11h00 | "Introdução conceptual" - Profa Doutora Ana Leonor Santos (FAL-UBI, CE)

11h45 | Discussão

13h00 | Almoço (Cantina de Santo António)

14h30 | "Experimentação com humanos e outros seres vivos" - Prof. Doutor José António Martinez Souto de Oliveira, Presidente da Comissão de Ética (CE) da UBI

16h00 | Discussão

17h30 | Encerramento

18h00 - 19h30 | Percurso cultural na Covilhã

20h00 | Jantar (Malufa)

26 de junho (quarta-feira)

10h00 | "A proteção de dados pessoais na investigação" - Prof. Doutor Ricardo Rodrigues (FCSH-UBI)

11h30 | Discussão

13h00 | Almoco (Cantina de Santo António)

14h30 | "Fraude e plágio na universidade - Profa Doutora Ana Maria Seixas (CES-UC)

Prof. Doutor Paulo Peixoto (CES-UC)

16h00 | Discussão

17h30 | Encerramento



Published books in Portuguese CENTROALGORITM







Ética em investigação científica

https://www.youtube/com/watch?v=1elfkPD4vHk

Estudos de caso:

- Caso 2.1 Reuniões científicas: o "estado da arte" à distância de um sorriso
- Caso 2.2 Investigação sobre laser: hoje, teria obtido igual acesso a financiamento?
- Caso 3.1 Ignorava a gravidade de cometer plágio
- Caso 3.2 O navio de guerra *Vasa*: exemplo de conduta científica censurável com consequências de dimensão histórica
- Caso 3.3 As naves espaciais *Challenger* e *Columbia*: não é garantido que se aprenda com as lições da História
- Caso 4.1 Um exemplo de erro honesto
- Caso 4.2 Um exemplo de possível fabricação
- Caso 4.3 Trabalho publicado não replicável
- Caso 4.4 Plágio facilmente detetável: níveis desiguais de qualidade literária
- Caso 4.5 Plágio facilmente detetável: utilização acrítica de software de tradução de texto
- Caso 4.6 Plágio facilmente detetável: dificuldade em defender o trabalho apresentado
- Caso 4.7 "Posso garantir-lhe que nunca o abandonarei": breve tributo ao Prof. Doan Kim Son
- Caso 5.1 Alfred Nobel: a responsabilidade social do investigador
- Caso 5.2 Exemplo de contrato de confidencialidade
- Caso 5.3 O papel do disclaimer
- Caso 5.4 Um exemplo de ética na gestão de conflitos de interesse
- Caso 5.5 O preço de um compromisso falhado
- Caso 6.1 Coautoria não justificada
- Caso 6.2 O peso da conceção na autoria de uma patente
- Caso 6.3 Usurpação de autoria
- Caso 7.1 O voto foi isento?
- Caso 7.2 Avaliação por pares: três cenários
- Caso 7.3 Processo de revisão aberta
- Caso 8.1 O colega parasita
- Caso 8 2 Exemplo de diretiva sobre plágio



Research Ethics in Computer Science

Alberto José Proença

Seminar MAP-i 22nd January 2020