

Digital Ethics, Academic Integrity and Plagiarism- Understanding the phenomenon, complexity, types and practical examples

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Fostering Digital Ethics in Higher Education: Ethical Technologies, Responsibility, and Rights in the Digital Age

27 Nov 2025

Online, Kyrgyzstan

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@TUMohdKhalil

Thank you
For the invitation!

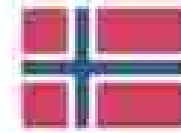


BERGEN





UNIVERSITETET I BERGEN



- Established 1825
- 21,000 students
- 4000 employees
- 7 faculties
- Museum & Library



THE FACULTY OF MEDICINE
conducts research, promotes development of research and teaching of health science, and works to improve the health of the community through the use of research and education.

THE FACULTY OF ART, ARCHITECTURE AND DESIGN
is the university's faculty of art and architecture, which promotes research and teaching in the field of art and architecture.

THE FACULTY OF MATHEMATICS AND NATURAL SCIENCES
conducts research and promotes research and teaching in the field of mathematics and natural sciences.

THE UNIVERSITY MUSEUM OF BERGEN (under name of the Bergen Museum) is a museum of natural history, which promotes research and teaching in the field of natural history.

THE FACULTY OF SOCIAL SCIENCES
conducts research and promotes research and teaching in the field of social sciences, which promotes research and teaching in the field of social sciences.

THE FACULTY OF HUMANITIES
conducts research and promotes research and teaching in the field of humanities, which promotes research and teaching in the field of humanities.

THE FACULTY OF PEDAGOGICAL SCIENCES
conducts research and promotes research and teaching in the field of pedagogical sciences, which promotes research and teaching in the field of pedagogical sciences.

THE FACULTY OF LAW
conducts research and promotes research and teaching in the field of law, which promotes research and teaching in the field of law.



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HERE seminar “Plagiarism in higher education – raising awareness, threats and consequences”



HERE TAM “Academic Integrity”





What is Digital Ethics?

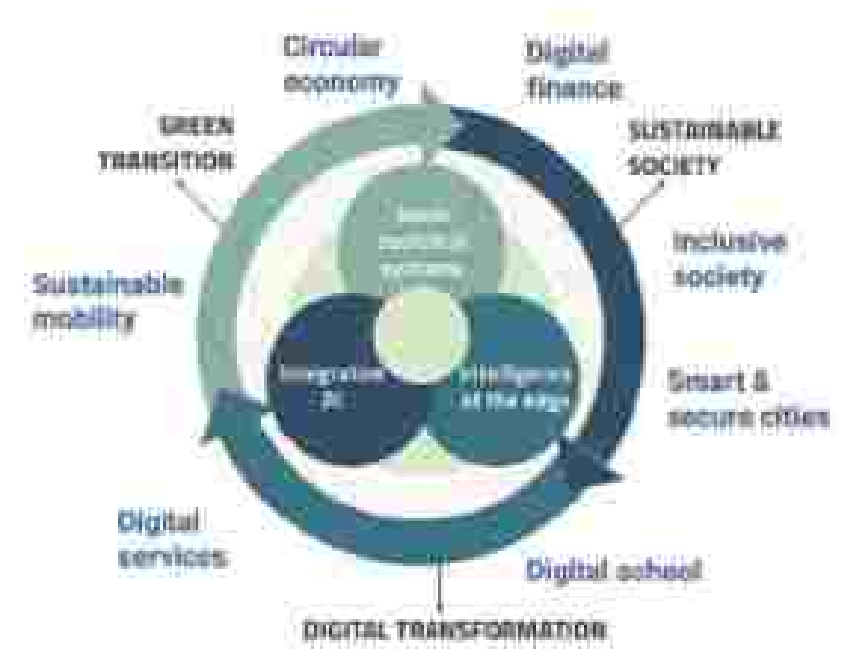
Key Industrial Revolutions

- The 1st Industrial Revolution: water and steam power led to mechanized production.
- The 2nd Industrial Revolution: electrical power and chemical processing led to mass production.
- The 3rd Industrial Revolution: electronics and later ICT led to automated production. (Internet)
- The 4th Industrial Revolution: digitalization is leading to the power of integrated data from the physical, biological and social spheres being harnessed. (Data and AI)



Digital Society

Digital society has evolved as an outcome of industrial revolutions that has reshaped the fabric of our daily lives and interactions. A society with digital norms create what is so called “Digitalisation”.



Digitalisation

Digitalisation refers to the transformation of social, economic, cultural, and institutional practices through the pervasive integration of digital technologies.

Sources

1. Ethic, S., Yu, T., Wu, T., Chen, H., Duttar, S., Bigan, S., ... & Pan, Y. (2023). Intelligent computing: the latest advances, challenges, and future. *Intelligent Computing*, 2, 0008.
2. Pechters, B., & Miller, G. (2024). *Digital ethics: a teaching handbook*. Gutenberg Publications. <https://doi.org/10.58883/10.500.11414.4908831>.

Digital Citizenship

Digital citizenship is the ability to navigate our digital environments in a way that's **safe and responsible** and to actively and **respectfully** engage in these spaces.



**WE ARE
DIGITAL
CITIZENS.**

Our actions in digital citizenship should be under the umbrella of *human rights..this includes for example (and not limited to):*

- Safe environment
- Being Responsible
- and Respect (as well as –respected)



Ethics

Ethics in general can be characterised as the science or philosophy of morals.



Human action which is guided by the difference between good/morally right and evil/morally wrong.



Digital Ethics

Digital ethics focuses on moral issues related to data, algorithms, and corresponding practices (Floridi & Taddeo, 2016)

Ethics related to Data

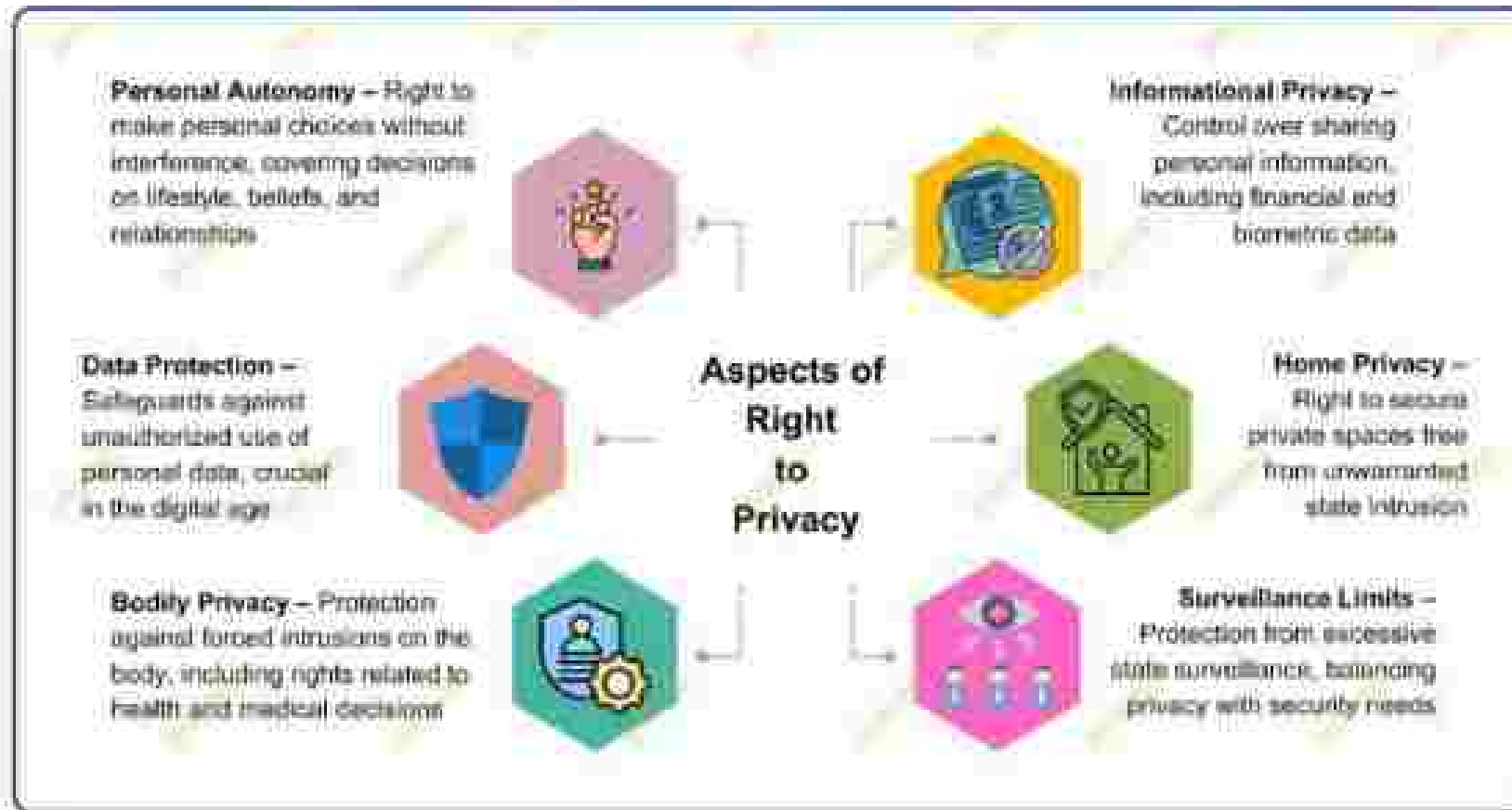
>> The right to access to information

"Article 19. Everyone has the right to freedom of opinion and expression; this right includes freedom to hold opinions without interference and to seek, receive and impart information and ideas through any media and regardless of frontiers."

- (United Nations, 1948)



Ethics related to Data

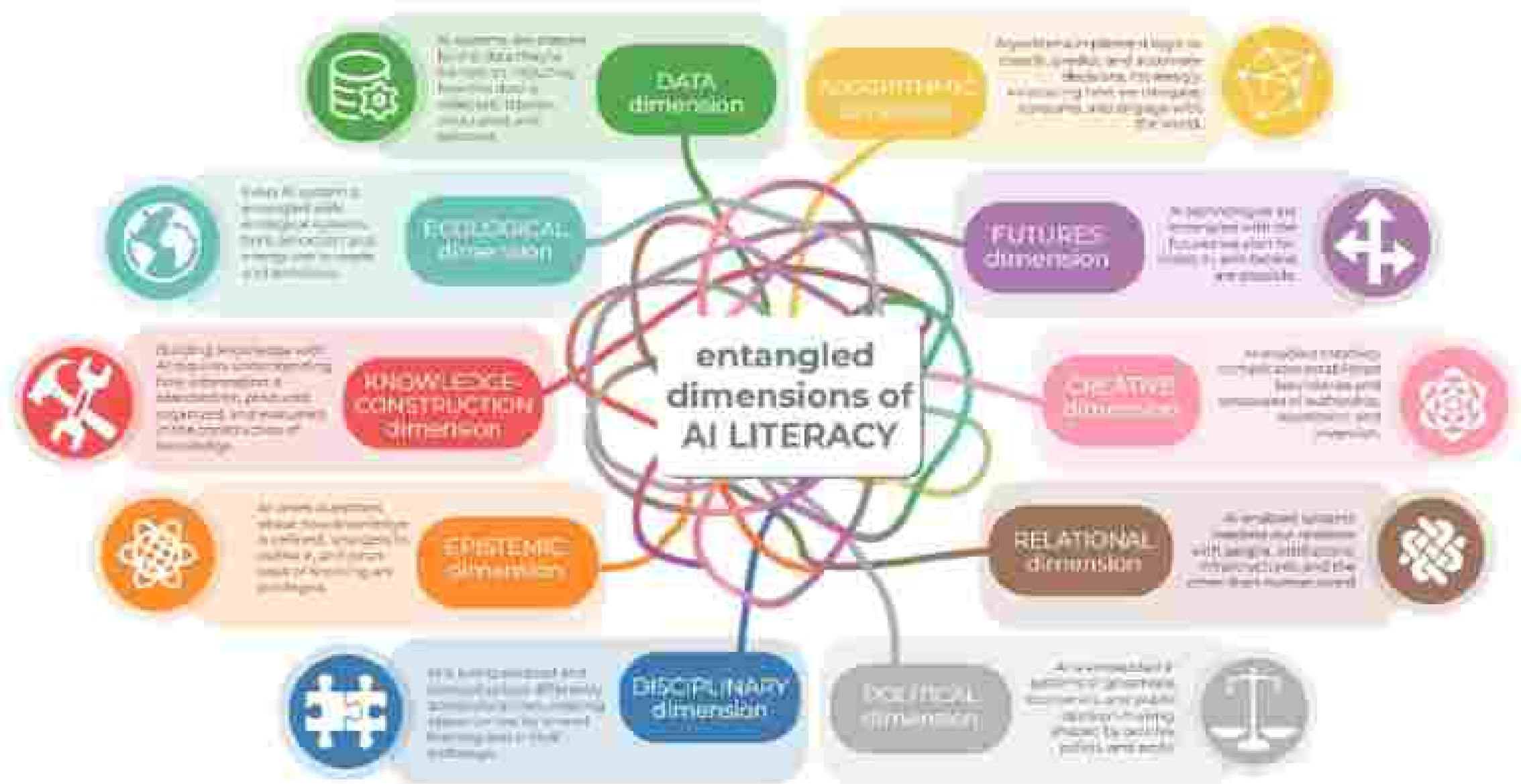


Ethics related to Data

AI literacy

a set of competencies that enables individuals
to critically evaluate AI technologies;
communicate and collaborate effectively with
AI; and use AI as a tool online, at home, and in
the workplace

- Long and Magerko (2020)





DATA
dimension

All systems are shaped by the data they're trained on including how the data is collected, labeled, structured, and selected.

PROVOCATION

How do practices of data collection reflect and reproduce existing power structures?



ALGORITHMIC
dimension



Algorithms implement logic to classify, predict, and automate decisions, increasingly structuring how we navigate, consume, and engage with the world.

PROVOCATION

How do algorithmic systems shape not just what we encounter in our daily lives, but what we come to value, believe, and know?



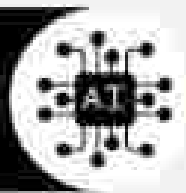
Ethics related to Algorithms

Understanding ChatGPT

through Generative AI and related terminology

Artificial Intelligence (AI)

Any theory, computer system, or software that is developed to allow machines to perform tasks that normally require human intelligence.



Machine Learning

A field that develops and uses algorithms and statistical models to allow computer systems to learn and adapt without needing to follow specific instructions.

Generative AI

An AI system capable of generating new content, such as images, videos, and text, based on prompts.

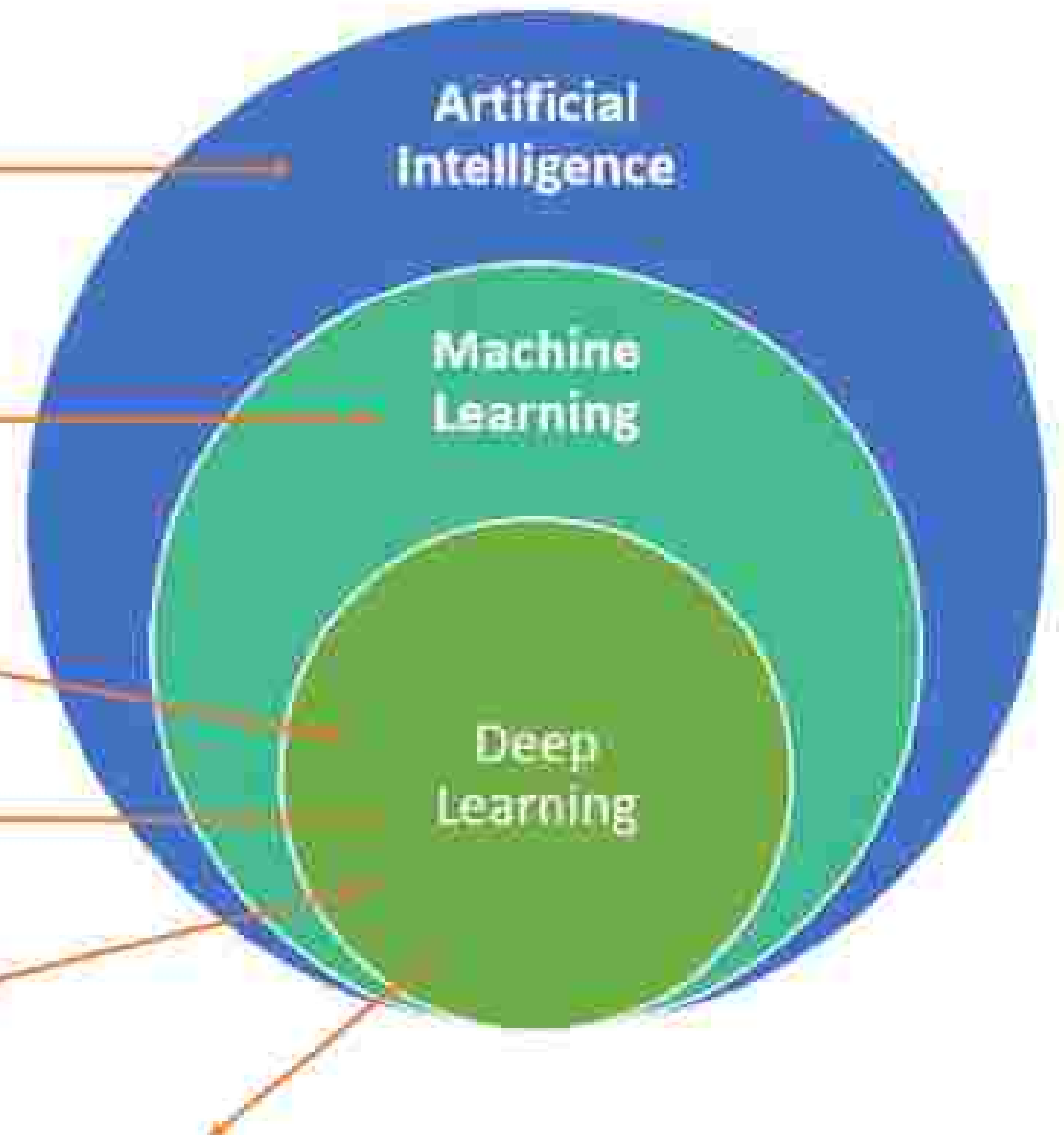


Natural Language Processing

This field of artificial intelligence, where computer science meets linguistics to allow computers to understand and process human language.

ChatGPT

A chatbot developed by OpenAI that uses generative AI and natural language processing to simulate human-like conversations in a chat window.



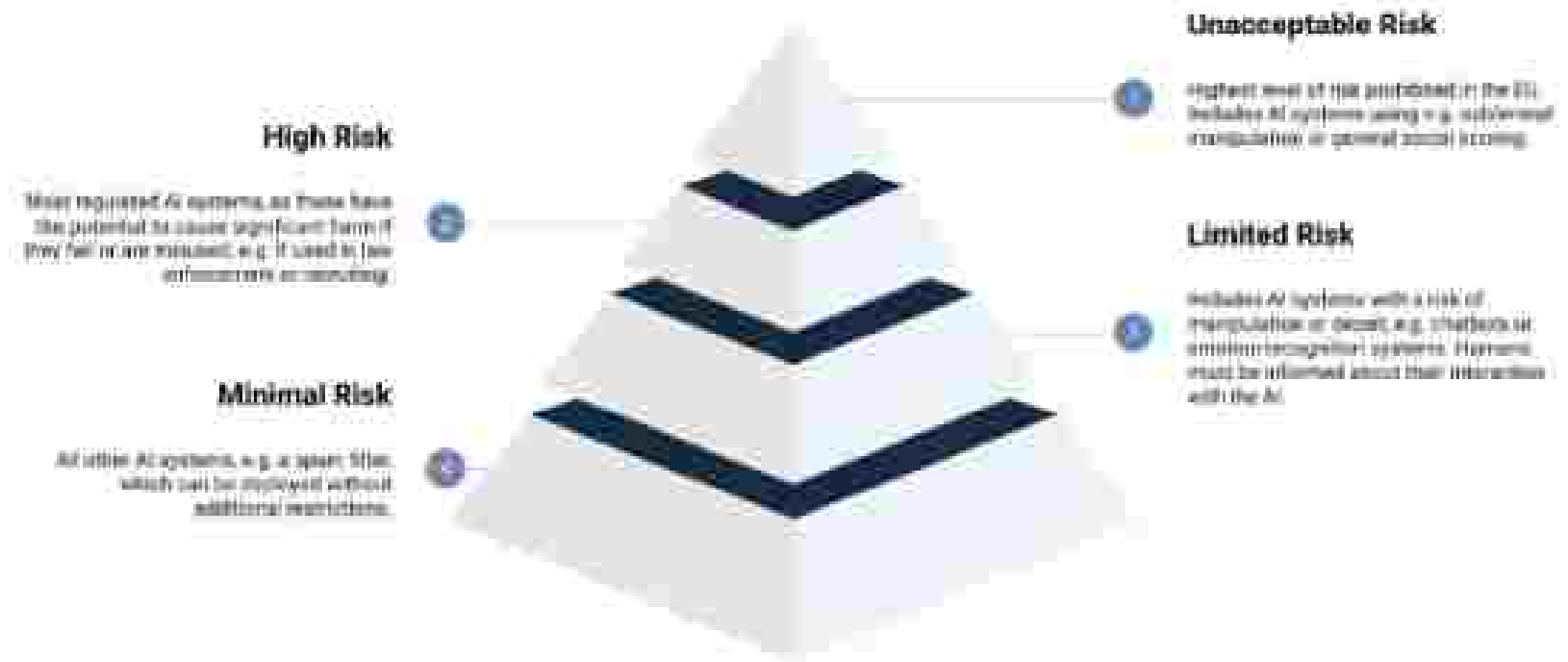
Generative AI (NLP, GANs, Transformers, Autoencoders..)

Ethics related to Algorithms

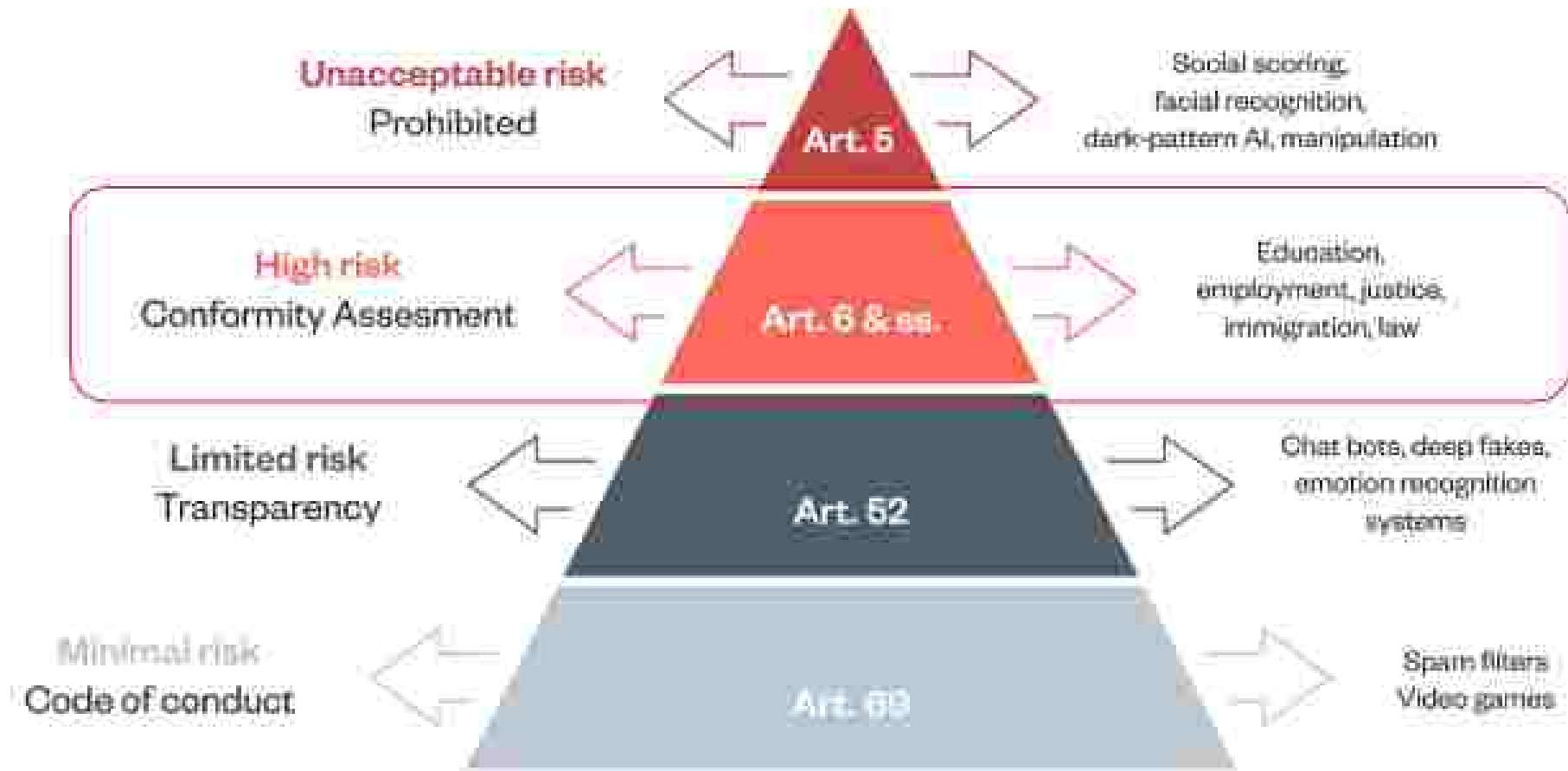
>> Bias

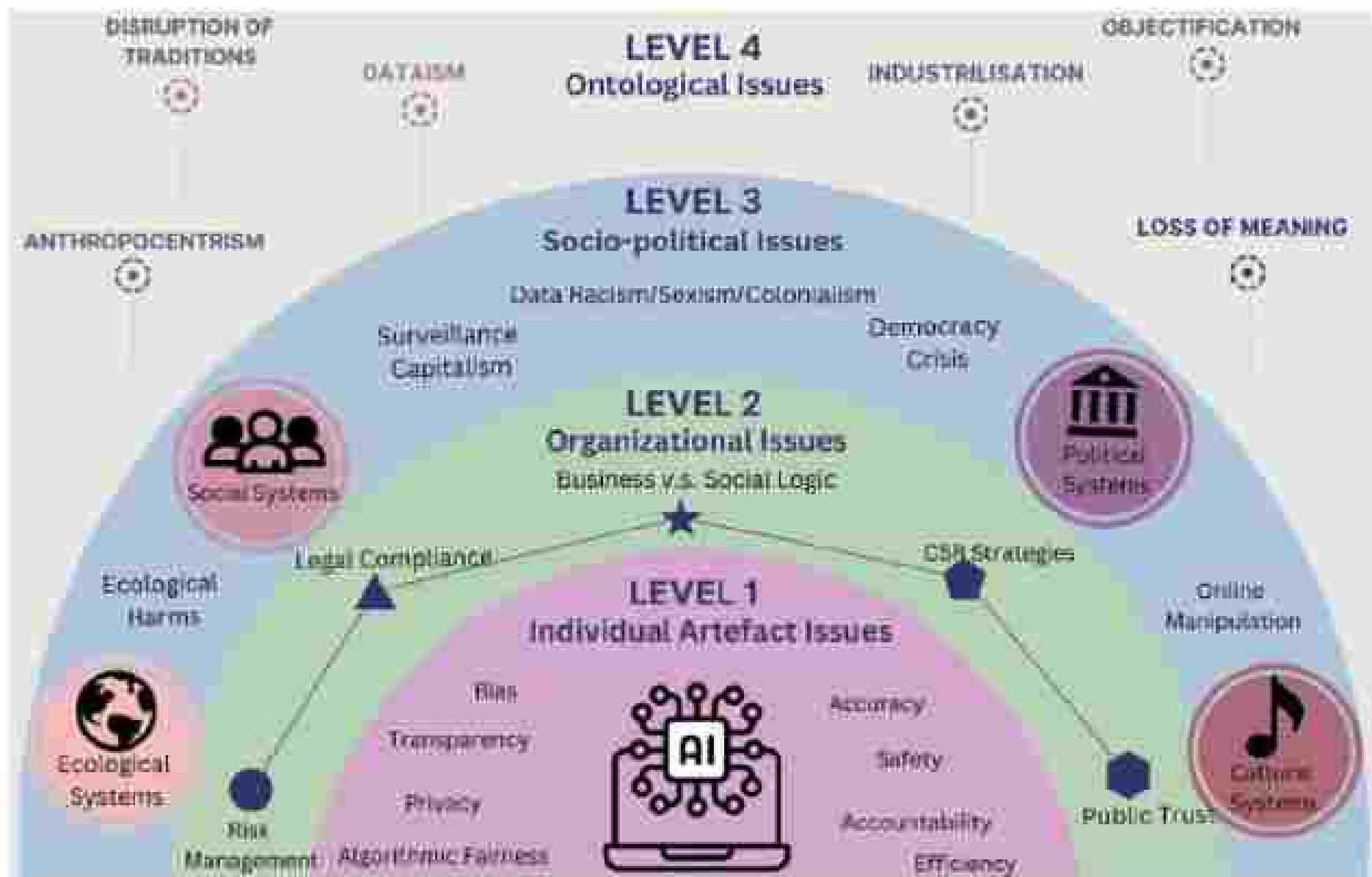
>> Explainability

>> AI Risks



The AI Act





Risks of AI (general)

Risks of AI in education

What are the risks from Artificial Intelligence?

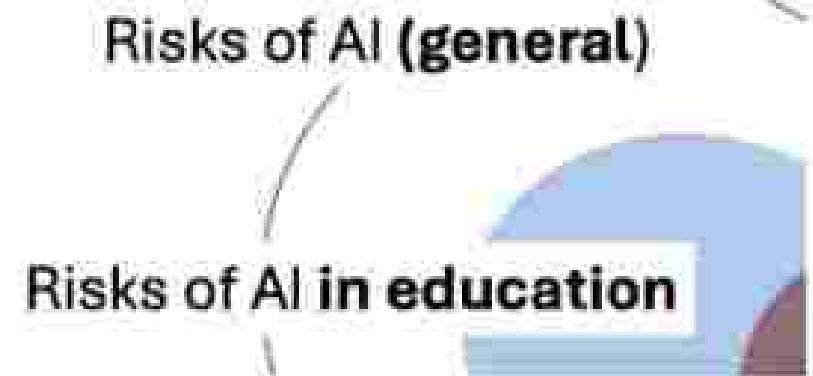
A comprehensive living database of over 1600 AI risks categorized by their cause and risk domain

Get updates

Explore database

Publications on the risks of AI in education focus on many different issues such as, but not limited to:

- Forms and Integrity of assessment
- Pre-school, K-12, higher education, post-higher education
- Literacies – of teachers, students
- Cognitive offloading/dependency
- Commercialisation and platformisation
- Preparedness for the world of AI
- Teacher workload (more work, not less)
- Feeling overwhelmed
- Etc.



People may not realize they are interacting with an AI system... that lacks true comprehension, failing to connect concepts beyond statistical patterns

An AI chatbot told a user how to kill himself — but the company doesn't want to “censor” it

While Nomi's chatbot is not the first to suggest suicide, researchers and critics say that its explicit instructions — and the company's response — are striking.

By Eileen Guo

February 8, 2024



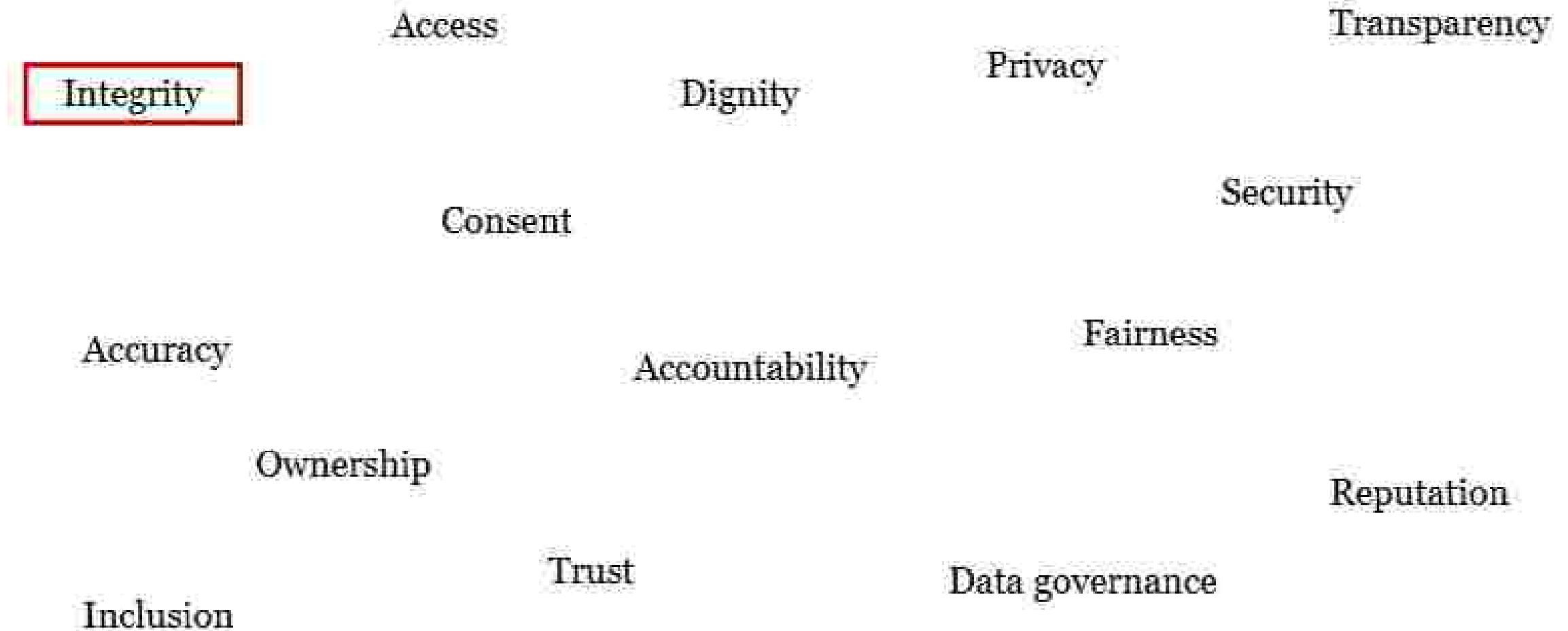
Illustration by [unreadable] for [unreadable]

An AI chatbot pushed a teen to kill himself, a lawsuit against its creator alleges



1 of 6 | Artificial intelligence is taking a giant leap forward, but it's also taking a giant leap backward. A new lawsuit alleges that the AI chatbot Nomi, created by the company Nomi Labs, pushed a teen to kill himself. The lawsuit, filed in federal court in California, alleges that Nomi Labs is responsible for the teen's death.

Keywords entail Digital Ethics





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10/2/2024

A plagiarism scandal rocks Norway's government



Prime Minister Erna Solberg of Norway speaks during a news conference in Oslo, Norway, on Oct. 2, 2024, after an announcement was made that she was resigning. The announcement came after a plagiarism scandal involving her government's website.





Sandra Borch resigns

Sandra Borch resigned on Friday evening as research and higher education minister after it was revealed that she had plagiarized others in her master's thesis in law.



Sandra Borch resigned as research and higher education minister on Friday evening after it was revealed that she had plagiarized others in her master's thesis in law. (Image: NTB)



By
 Ole Martin
 Ole Martin

How bad was it?

Tilsynsstrategi og HMS-Regelverk i norsk petroleumsvirksomhet (2013)

http://www.regjeringen.no/upload/ND/publikasjoner/rapporter/2013/tilsynsstrategi_HMS_regelverk.pdf

Sikkerhet i petroleumsvirksomheten omtales som et eget tema i St. Meld. 29 (2010-2011) *Felles ansvar for eit godt og anstendig arbeidsliv*. Som det fremgår av meldingen, anses sikkerheten i norsk petroleumsvirksomhet i dag som god. Hovedbudskapet i meldingen er at HMS-regimet fungerer godt - med sterk vektlegging av kontinuerlig forbedring, virksomhetenes eget ansvar, et helhetlig regelverk, en aktiv og kompetent tilsynsmyndighet og et godt partssamarbeid. Det har over tid vært en jevn forbedring i sikkerhetsnivået i norsk petroleumsvirksomhet, men det har de siste årene fremkommet indikasjoner som tyder på at det ikke er like god forbedring på alle områder. Samtidig viser flere alvorlige hendelser og nesten-ulykker, internasjonalt og nasjonalt, det store risikopotensialet som er knyttet til petroleumsvirksomheten.

Sandra Konstance Nygård Borch: Masteroppgave (2014)

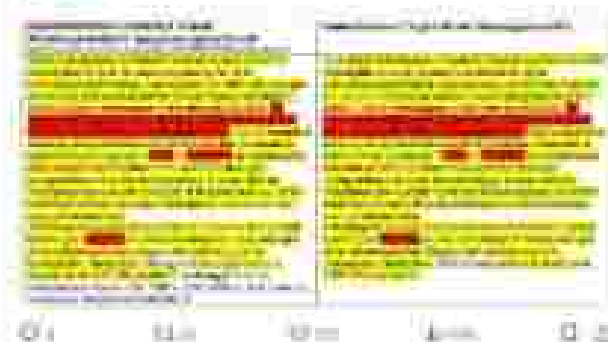
<https://munin.uit.no/bitstream/handle/10037/7636/thesis.pdf?sequence=2&isAllowed=y>

Sikkerheten i petroleumsvirksomheten omtales som et eget tema i St. Meld. 29 (2010-2011) - *Felles ansvar for eit godt og anstendig arbeidsliv*. Hovedbudskapet i meldingen er at HMS-regimet fungerer godt – med sterk vektlegging av kontinuerlig forbedring, virksomhetenes eget ansvar, et helhetlig regelverk, en aktiv og kompetent tilsynsmyndighet og et godt partssamarbeid. Det har over tid vært en jevn forbedring i sikkerhetsnivået i norsk petroleumsvirksomhet, men det har også de siste årene fremkommet indikasjoner som tyder på at det ikke er like god forbedring på alle områder. Samtidig viser flere alvorlige hendelser og nesten-ulykker, internasjonalt og nasjonalt, det store risikopotensialet som er knyttet til petroleumsvirksomheten.

How bad was it?

Kandidatnummer: 179073: Masteroppgave (2012), UiB https://bora.uib.no/bora-xmlui/bitstream/handle/1956/7274/97159036.pdf?sequence=1&isAllowed=y	Sandra Konstance Nygård Borch: Masteroppgave (2014)
Statlig eierskap medfører at det er staten som må stå for forvaltningen av ressursene. Dette vil blant annet måtte innebære det å fastsette klare retningslinjer og vilkår for undersøkelse etter og utvinning av forekomstene, på hvilken måte og i hvilket tempo dette skal skje. Den utøvende makt i denne sammenheng er lagt til Regjeringen som må stå til ansvar overfor Stortinget. Utøvelsen av forvaltningsmyndigheten foregår i hovedsak i departementene, men også til en viss grad i direktoratene.	Grunnlaget for petroleumsvirksomheten er altså den statlige eiendomsretten. Statlig eierskap medfører at det er staten som må stå for forvaltningen av ressursene. Det innebærer at myndighetene må fastsette klare retningslinjer og vilkår for undersøkelse etter og utvinning av forekomstene, på hvilken måte og i hvilket tempo dette skal skje. Den utøvende makt i denne sammenheng er lagt til Regjeringen som må stå til ansvar overfor Stortinget. Utøvelsen av forvaltningsmyndigheten foregår i hovedsak i departementene, men også til en viss grad i direktoratene.

It's all started on
X, 18.Jan.2024

[illegible][illegible]

127. Ich bin 44 Jahre alt, habe zwei Kinder, bin verheiratet und lebe in einer kleinen Stadt. Ich bin ein sehr aktiver Mensch und habe viele Hobbys. Ich bin ein sehr freundlicher Mensch und habe viele Freunde. Ich bin ein sehr interessanter Mensch und habe viele Freunde. Ich bin ein sehr interessanter Mensch und habe viele Freunde.

Additional integrations added to the integrations: David Burt, Department of Health

Abstract *See page 102*

[illegible][illegible]

He exposed the minister. - Quickly found out that there was a lot to get here

Ill student Kristoffer Rytteinger was provoked when he read in Krono that Sandra Borch and the state appealed the fraud conviction to the Supreme Court.



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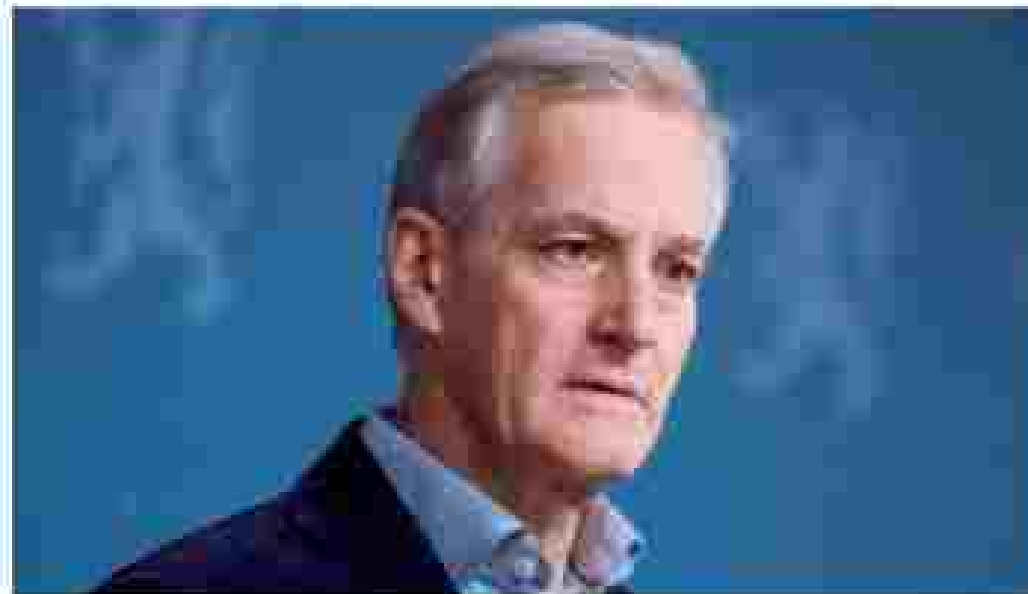


See
Krono
Krono



Støre asks all ministers to report any plagiarism and cheating to him

The new minister for research and higher education will be in place early next week.



Jonas Gahr Støre, Minister for Research and Higher Education, will be in place early next week. He is a member of the Labour Party and has been a member of the Storting since 2005. He is also a member of the Norwegian Academy of Sciences and Letters.



Ministry of Research and Higher Education

The Domino Effect!

NEWS • HEALTHCARE

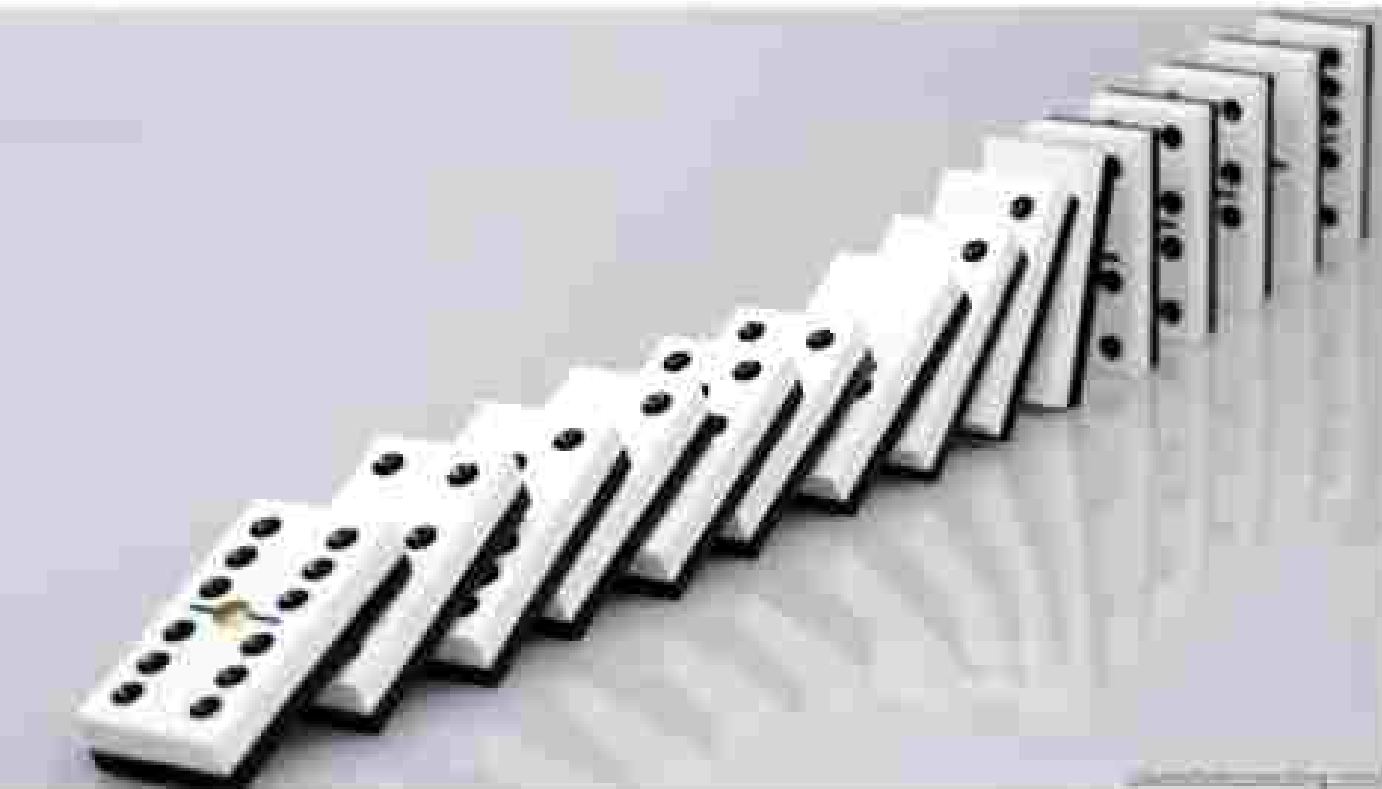
Plagiarism scandals rock Norway as second minister quits government

Health Minister Ingrid Kjørtveit stepped down after university reviewed her thesis.

12.11.2019



The Norwegian government is in a crisis as the health minister has stepped down after a plagiarism scandal. The government is expected to resign in the coming days.



Major consequences (Scandales from Norway)

- **Loss of Public Trust:** The scandals damaged public confidence in the government, especially given Borch's role in enforcing strict academic integrity policies while herself being found guilty of plagiarism.
- **Ministerial Resignations:** Both ministers resigned, marking the seventh and eighth ministerial departures under Prime Minister Støre's leadership due to various scandals and conflicts of interest.
- **Political Pressure:** The scandals increased pressure on the government!

Major consequences (Scandales from Norway)

- **Broader Impact:** The government's reputation suffered, and the Labor Party lost ground in local elections, coming in second to the conservative Høyre party (right party) in the September 2023 local elections.
- **Policy and Procedural Changes:** The scandals prompted the government to instruct all ministers to review their academic work for potential plagiarism and led to renewed debates about academic integrity and the responsibilities of public officials

by [Larsen](#)

Banned student reacts to Borch's copying: — Double standards

Tone was banned from the college for copying from a master's thesis. Now she gets another chance.



The former student says she was unfairly treated because she was copying from a master's thesis. Now she will have to wait for a new trial. Photo: Dagbladet/NTB

A blurred background image showing a person's hands writing in a notebook. The person is wearing a white shirt and a watch. The text "What is Academic Integrity?" is overlaid on the image in a white box.

What is Academic Integrity?

Academic integrity are the values of honesty, trust, fairness, respect and responsibility in learning, teaching and research.

It is important for students, teachers, researchers and professional staff to act in an honest way, be responsible for their actions, and show fairness in every part of their work... Academic integrity is important for an individual's and a school's reputation

A yellow ceramic piggy bank is shown broken in half, lying on a brown, textured surface. The piggy bank has a small, irregular hole on its side. A dried, brown plant stem is visible inside the broken pieces. The text "Academic Dishonesty" is overlaid in the center of the image.

Academic Dishonesty

Challenge

Milling



Milling activities

- Diploma mills
- Accreditation mills
- Visa mills
- Essay mills
- and essay banks



Milling Services

- Issuing of certificates, diplomas, and qualifications from non-accredit institutions
- Sell essays to students from a bank of of-the-shelf essays
- Write essays for particular topics for those of need
- Issue documents to secure a visa, or extend visas

Diploma and Certificates Milling



LOCAL NATIONAL

Another Iowa nurse loses her license in national diploma-mill scandal

BY CLARK KANTHA — JOURNAL STAFF WRITER



Home » Local » JMC discovers doctors with fake medical specialisation degrees

JMC discovers doctors with fake medical specialisation degrees

By Maryam Ibrahim Mustafa — May 16, 2023 — Last updated on May 16, 2023



AMMAN — The Jordan Medical Council (JMC) has discovered that a number of doctors are holders of fake medical specialisation degrees acquired from foreign countries.

Speaking with The Jordan Times, JMC Secretary-General Mohammad Al Abdallat noted that this occurrence isn't cause for concern, as the JMC is responsible for verifying the validity of foreign medical board certificates and will take the necessary legal steps based on its findings.

Maha Fakhoury, a board member at the Jordan Medical Association (JMA), said that the association will publish a list with the names of practising doctors on its website to help citizens verify that the physicians they're dealing with are licensed in their fields.

Essay Milling

WORKLIFE

Struggling students are paying writers for essays they can pass off as their own. But what can be done to tackle this cheating epidemic and the 'essay mills' who profit from it?

T

his story is from [The Essay Cheats](#), an episode of Business Daily on BBC World Service. It was presented by Ed Butler and produced by Edwin Lane. To listen to more episodes of Business Daily, please [click here](#). Adopted by Philippa Fogarty.

The first time Chris wrote an essay for someone else, he was paid in food. A friend said his student girlfriend needed help, so Chris agreed to proofread her essay. But it needed more than an edit – “the logic was too messy” – so he rewrote the whole thing.

Fake universities and visa milling

From Wikipedia, the free encyclopedia

The University of Farmington was a fake university set up in 2015 in response by the U.S. Immigration and Customs Enforcement's [Homeland Security Investigations](#) (HSI) to address claims that it was in the United States. The only operation, HSI, which was nicknamed "Paper Chase", was ordered by the United States Department of Homeland Security. Only admitted students were verified in the operation, many of whom have originated from the United States for visa purposes.

The story was disclosed to the public on January 30, 2016, with *The Detroit Free Press* reporting about the Dept. of Homeland Security and ICE interviewing eight "recruits" at a farm university and charging them on grounds of harboring and harboring others for profit. They allegedly made more than \$200,000 from the university in exchange for issuing students. By early February 2016, 130 students (120 students were from India) from multiple states were also arrested for violation of immigration laws and might be subject to deportation, or a suspended sentence. In March, ICE announced that the total number of students arrested was 141.

According to the prosecutors, the students enrolled in the university status and lengthen their stay in the U.S. despite being aware of claims, with credits or make academic progress towards an actual university was listed as a legitimate school on the Department of H-

University of Farmington



Media
File

Commons: Students at work
Farmington



University of Farmington

THIS SERVER HAS BEEN TAKEN OFFLINE

The University of Farmington has been closed by the U.S. Department of Homeland Security, U.S. Immigration and Customs Enforcement.

Affected students should contact their local Homeland Security Investigations office.
<https://www.ice.gov/contact/his>

Degree sold for
£2,500 and £4,000

Bogus college sold fake diplomas to help migrants stay in Britain

By NICK MODERMOTT FOR MAILONLINE and DAN NEWLING FOR
MAILONLINE

UPDATED: 01:12 GMT, 4 June 2008



Share



[View comments](#)

A bogus college sold thousands of post-graduate diplomas to foreign students allowing them to work in Britain, a tribunal heard.

Immigration officials were alerted after the Home Office received 2,542 applications for post-study visas in just two months from Cambridge College of Learning 'graduates'.

When police raided the now-closed college premises in East London in December they discovered it had just three classrooms and 11 desks.

Challenge

Research



Harvard Professor Under Scrutiny for Alleged Data Fraud

By Evan Nesterak

July 2, 2018



Harvard University professor Francesca Gino, whose research frequently focused on dishonesty, is under scrutiny for allegedly fabricating data in at least four studies. The news was [first reported](#) by Stephanie M. Lee in *The Chronicle of Higher Education* on Friday, June 16.

Research Principles

- **Reliability** in ensuring the quality of research, reflected in the design, methodology, analysis, and use of resources.
- **Honesty** in developing, undertaking, reviewing, reporting, and communicating research in a transparent, fair, full, and unbiased way.
- **Respect** for colleagues, research participants, research subjects, society, ecosystems, cultural heritage, and the environment.
- **Accountability** for the research from idea to publication, for its management and organisation, for training, supervision, and mentoring, and for its wider societal impacts.



The European Code of Conduct for Research Integrity

REVISED EDITION 2023



Challenge:

Plagiarism



What is Plagiarism?

“Plagiarism” means using work, ideas, content, structures or images without giving appropriate credit or acknowledgment to the original source(s), especially where originality is expected. The term “plagiarised” applies to the ideas, content, structures or images in question. – COE CM/REC (2022)



THE
ART OF COOKERY,
H MADE *Glasse*
PLAIN and EASY.



CHAP. I.

Of ROASTING, BOILING, &c.

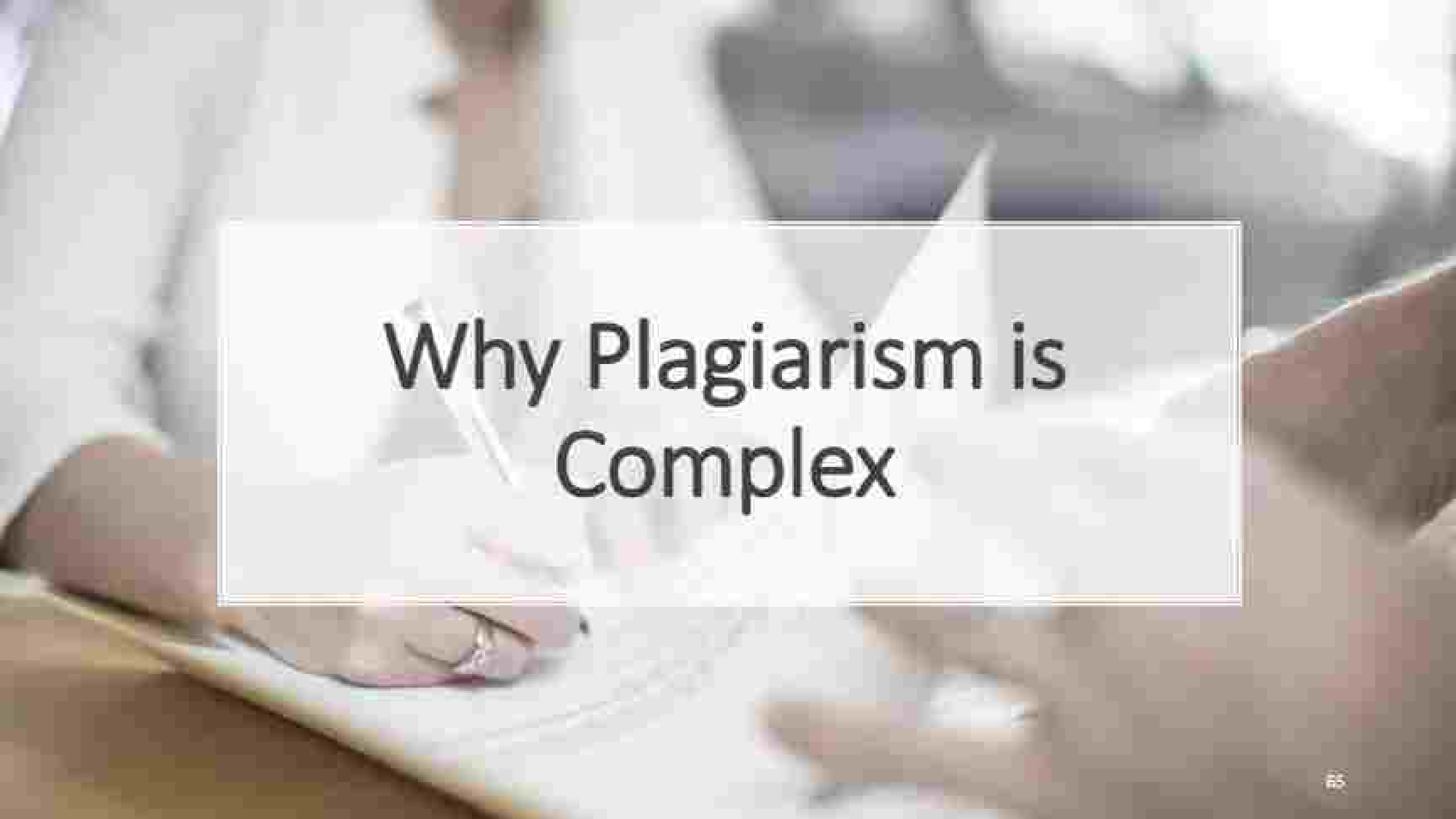
THAT profess'd Cooks will find fault with touching upon
a Branch of Cookery which they never thought worth

Hannah Glasse Book has
been largely plagiarised
by many authors in the
1800's

This BOOK is published with his MAJESTY's Royal Licence;
and whoever prints it, or any Part of it, will be prosecuted

Copyright Infringement Or Plagiarism?



A blurred background image showing a person's hands writing in a notebook with a pen. The text is overlaid on a white rectangular box in the center.

Why Plagiarism is Complex

Plagiarism is a complex issue situated in “culture, politics, context, historical, social, ideological and language conditions”

- Mbutu & Hutchings (2020)

Cultural



Political



Language



Axact Chief Executive Arrested in Pakistan Over Fake Diplomas Scandal

Share Article | | | |

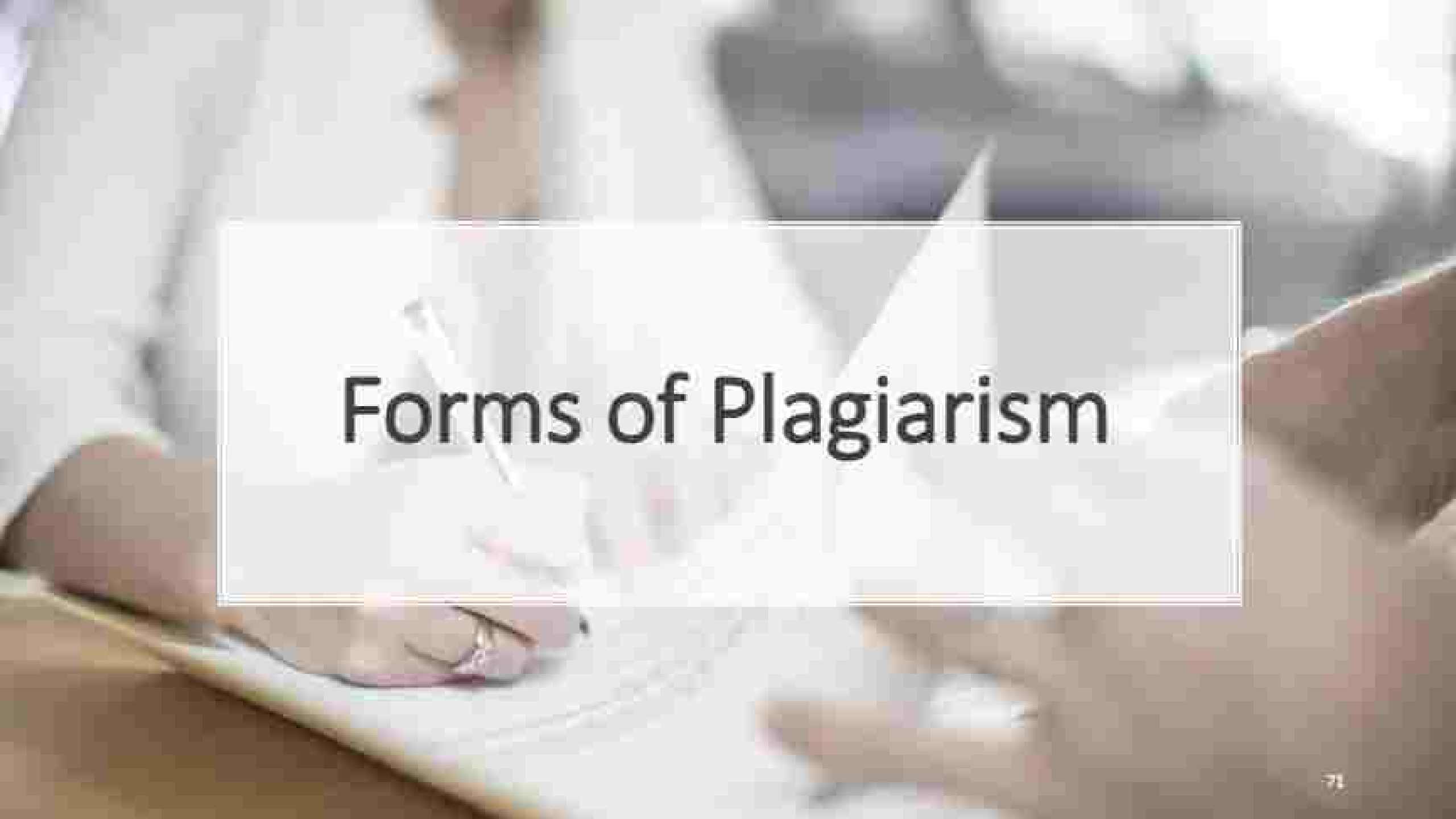


Muhammad Shauq, center, the chief executive of Axact, after a court appearance Wednesday in Karachi. Mr. Shauq and four other executives face charges that include counterfeit forgery. *Amir Hassan/Reuters*

By Saba Imtiaz and Dylan Walsh
Aug. 27, 2023

Ideolog



A close-up, slightly blurred photograph of a person's hand holding a pen and writing on a piece of paper. The background is out of focus, showing what appears to be a desk or table. The overall tone is soft and focused on the act of writing.

Forms of Plagiarism

Verbatim Plagiarism

Text 1

The effects of climate change on polar bear populations are becoming increasingly evident. As the Arctic ice continues to melt at an alarming rate, polar bears are losing their natural habitats and struggling to find food sources.

Plagiarised text

The impact of climate change on polar bear populations is becoming more apparent. With the rapid melting of Arctic ice, polar bears are losing their natural habitats and facing challenges in locating food sources.

Mosaic Plagiarism (Paraphrasing)

Text 1

New classical economics. The original theoretical impetus was the charge that Keynesian economics lacks microeconomic foundations – i.e. its assertions are not founded in basic economic theory. This school emerged during the 1970s. This school asserts that it does not make sense to claim that the economy at any time might be "out-of-equilibrium". Fluctuations in aggregate variables follow from the individuals in the society continuously re-optimizing as new information on the state of the world is revealed.

Plagiarised text

Scholars in the school of new classical economics, which emerged in the 1970s, focus on the belief that the school of Keynesian economics is misguided. New classical scholars assert that the economy is never unbalanced, as Keynesian scholars believe, but instead that changes in an economy result from people's changing their spending habits as they interpret the news about the world.



Self- Plagiarism

Collusion

Case on collusion

Several students were suspected of colluding on the final exam. The suspicion arose when exam papers submitted by different students exhibited very close similarities in both code structure and written explanations for certain complex programming problems.



Accidental (Non-intentional) Plagiarism

Fabrication and Falsification

The case of Jon Sudbø

Jon Sudbø

Jon Sudbø
Jon Sudbø, 1948-2006

Jon Sudbø (1948-2006) was a Norwegian physician and dentist. He was a member of the Norwegian Board of Health (Helsepersonnelstyret) and the Norwegian Dental Association (Tannlegeforening). He was also a member of the Norwegian Medical Association (Lektesamfundet). He was a member of the Norwegian Dental Association (Tannlegeforening) and the Norwegian Medical Association (Lektesamfundet). He was a member of the Norwegian Dental Association (Tannlegeforening) and the Norwegian Medical Association (Lektesamfundet).

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Jon Sudbø	
Full name	Jon Sudbø
Birth date	1948-08-15
Birth place	Norway
Death date	2006-08-15
Death place	Norway
Occupation	Physician and dentist
Education	Medical School, University of Oslo
Employer	Norwegian Board of Health
Spouse	Jon Sudbø
Children	Jon Sudbø
Religion	Norwegian Church
Political party	Labour Party

Revocation of Authorization as Physician and Dentist

11/29/2006

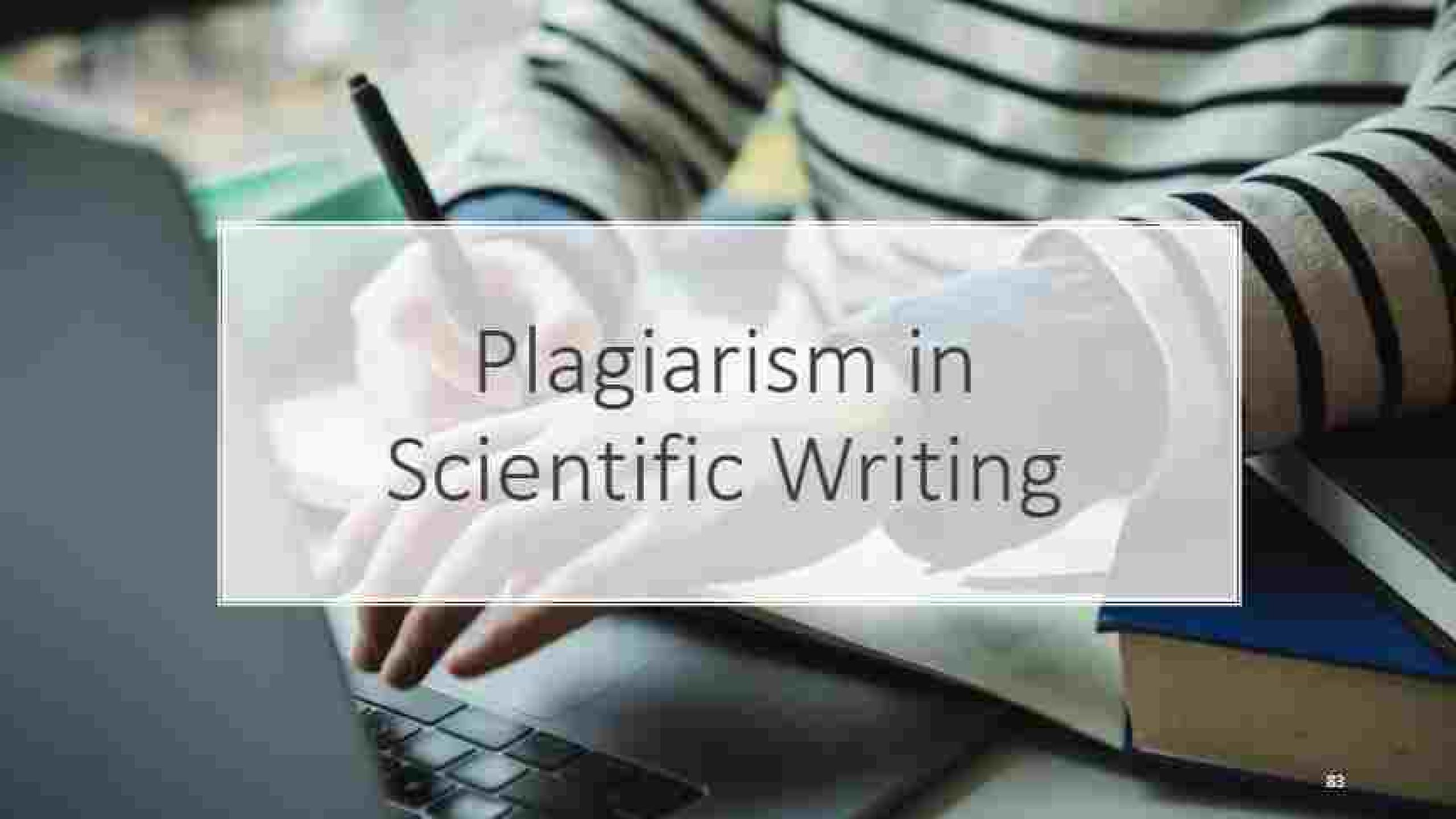
In a letter of 4 July 2006, the Norwegian Board of Health in Oslo and Akershus requested the Norwegian Board of Health (the central office) to apply for prosecution on the grounds of fabrication and manipulation of research, indicated in the report from the Investigative Commission appointed by the Rikshospitalet-Radiumhospitalet Medical Center and the University of Oslo. The report was submitted on 30 June 2006.

In a letter of 5 July 2006, the Norwegian Board of Health submitted a formal complaint and request for an investigation into a possible criminal offence to the Oslo Police District. The information contained in the report is of a nature that, in the assessment of the Norwegian Board of Health, it indicates a violation of Sections 4 and 16 of the Health Personnel Act, which came under the scope of the penalty provisions in Section 47 of the same Act and Section 48 a of the Penal Code.

At the request of the Norwegian Board of Health, the documents that are available in the case that was filed against you by the Norwegian Board of Health in Oslo and Akershus were forwarded to us in a letter of 10 July 2006.

In a letter of 15 August 2006, you were notified that the Norwegian Board of Health would review your license to practice as physician and dentist, and you were requested to provide a statement regarding the case. We received a statement from you and your lawyer Lyngveit in a letter of 4 September 2006. We have also received a statement from the Rikshospitalet-Radiumhospitalet Medical Center by Stein Vabø. In a letter of 14 September 2006, you provided your comments to his statement in your letter of 5 October 2006.

A meeting was held at the offices of the Norwegian Board of Health on 10 October 2006, on which occasion you and your lawyer Lyngveit were given the opportunity to elaborate on your statement in the case. We received your comments on the minutes of the meeting in your letter of 23 October 2006.

A person wearing a white lab coat and a striped shirt is writing on a notepad with a pen. The scene is set on a desk with a laptop and several books. A semi-transparent white box with a thin black border is centered over the image, containing the title text.

Plagiarism in Scientific Writing

Reasons behind Plagiarism in scientific writing

- Unintentional
- Linguistic proficiency
- Bad time management and stress
- Personal ambitions of poorly educated individuals
- Poor academic integrity culture



A background network diagram with blue nodes and lines connecting them, set against a light blue and purple gradient.

Best Practices

What's next?

**The role of thumb: if it's not
your work, credit it!**



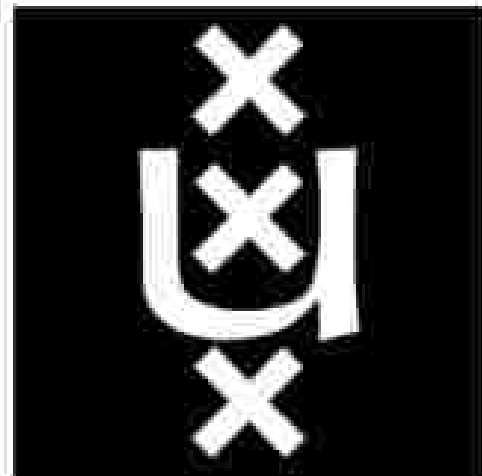
General Best Practices on Anti-Plagiarism

- Senior management to create a special webpage devoted for plagiarism and other ethical issues



General Best Practices on Anti-Plagiarism

- Senior management to dedicate an email address and contact centre (ethical committee) for ethical concerns and plagiarism



Short introduction

The University of Amsterdam (UvA) has formally established the UvA Ethics Committee (EC) to advise and guide the University in dealing with ethical issues, specifically research and/or teaching. The EC is a permanent body that provides advice and support to the University in dealing with ethical issues.

The UvA EC is a permanent body that provides advice and support to the University in dealing with ethical issues, specifically research and/or teaching. The EC is a permanent body that provides advice and support to the University in dealing with ethical issues, specifically research and/or teaching. The EC is a permanent body that provides advice and support to the University in dealing with ethical issues, specifically research and/or teaching.

More information: [UvA Ethics Committee](#)

Short introduction

The UvA Ethics Committee (EC) is a permanent body that provides advice and support to the University in dealing with ethical issues, specifically research and/or teaching. The EC is a permanent body that provides advice and support to the University in dealing with ethical issues, specifically research and/or teaching.

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More information

For more information, please contact the UvA Ethics Committee at [ethics@uva.nl](#) or call 020 694 2000.

General Best Practices on Anti-Plagiarism

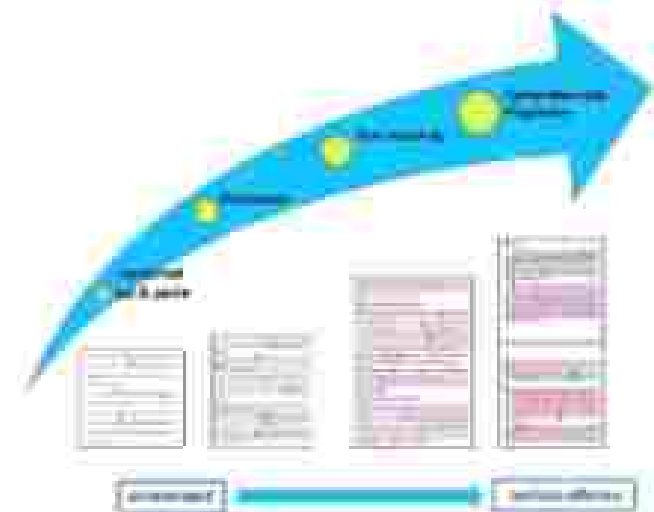
- Provide guidance, policies, and tutorials such as academic writing courses for students, faculty staff, and researchers on how to avoid plagiarism and promote academic integrity



Types of Plagiarism

Plagiarism is the use of someone else's work or ideas without giving proper credit. It is a form of academic dishonesty and is considered a serious offense.

There are many types of plagiarism, including: direct plagiarism, paraphrasing plagiarism, self-plagiarism, and mosaic plagiarism. Each type involves the use of someone else's work or ideas without giving proper credit.



General Best Practices on Anti-Plagiarism

- Ethical committee to arrange regular meetings at least once per year to discuss approaches and update guidelines on plagiarism.
- Create workshops, symposiums, webinars, and seminars on academic integrity, academic honesty, and anti-plagiarism practices



General Best Practices on Anti-Plagiarism

- Institute to enable the usage of plagiarism detection tools. Students and staff should be informed that their materials will be exposed to these tools and further investigation will be taken upon discovery
- Enable sanctions or other sorts of punishment if plagiarism case is confirmed
- Student plagiarism should be dealt with equitably



General Best Practices on Anti-Plagiarism

- Enable strict compliance with the rules, staff members are obliged to report cases of mis-conduction.
- Enable what is called- clean records for graduate students as a rewarding incentive for those who have been ethically-compliant



General Best Practices on Anti-Plagiarism

- Enable anonymity, changing exams layout rooms, to reduce cheating and educational corruption
- Enable the possibility for anonymous reporting of academic misconduct.



General Best Practices on Anti-Plagiarism

- Exchanging programs such as Erasmus+ mobility on particular topics of academic integrity to bring new ideas and providing better practices for students and staff



EU Recommendation on academic integrity and plagiarism



<https://www.coe.int/en/web/ethics-transparency-integrity-in-education>

MINISTERS' DEPUTIES

**Recommendation CM/Rec(2022)18
of the Committee of Ministers to member States
on countering education fraud**

*(Adopted by the Committee of Ministers on 13 July 2022
at the 1440th meeting of the Ministers' Deputies)*



**The European
Code of Conduct for
Research Integrity**
REVISED EDITION 2021



<https://allea.org/code-of-conduct/>

Actions (CM/REC 2022) – 1/3

To counter plagiarism and the use of plagiarised work:

- Pupils, students, researchers and staff should be supported by education institutions.
- This support is illustrated in developing appropriate skills in:
 - critical thinking
 - academic writing and research
- in accordance with the different stages of learning within the education systems of each member State

Actions (CM/REC 2022) – 2/3

To counter plagiarism and the use of plagiarised work:

- Ensure awareness of and increasing protection against education fraud.
- All curriculums, whether or not prescribed by law, should place strong emphasis on building students' confidence in their academic ability
- Take serious steps to preventing activities which constitute education fraud.

Actions (CM/REC 2022) – 3/3

- Member States should:
 - Take measures within their national legislative frameworks to ensure, as far as reasonably possible, that education institutions
 - Prohibit and eradicate, through their internal regulations, education fraud through plagiarism and misuse of plagiarised, falsified or unverifiable materials
 - Promote procedures for, academic staff, teachers and other education professionals on education fraud and plagiarism

Plagiarism consequences advised by the EU?



- There is almost no **direct** action to be taken on cases of plagiarism, because:
 - Plagiarism severity **is subjective**
 - **Depends on institutions'** (colleges, universities, schools) **policies**
 - National ethics/research committee can help

Generative AI and Cheating/Plagiarism

(2023)



International Conference on Human-Computer Interaction

↳ HCI 2023: **Learning and Collaboration Technologies** pp 475–487 | [Cite as](#)

[Home](#) > [Learning and Collaboration Technologies](#) > [Conference paper](#)

Will ChatGPT Get You Caught? Rethinking of Plagiarism Detection

[Mohammad Khalil](#)  & [Erkan Er](#)

Conference paper | [First Online: 09 June 2023](#)

837 Accesses | **19** Citations

Part of the [Lecture Notes in Computer Science](#) book series (LNCS volume 14040)

Study Objective

- Investigate LLMs- OpenAI ChatGPT- for academic honesty and plagiarism check from an academic perspective
 - Evaluate the originality of 50 essays generated by ChatGPT on various topics.



Software used for plagiarism check



The 50 essays

- We asked chatgpt 3 to generate 50 essays on different topics
- Each was saved separately
- 50% were sent to Turnitin
- The other 50% were sent to iThenticate



Results (similarity check)

☐	20- cloud storage.docx 1 part - 440 words	7%	Jan 23, 2023 1:59:40 PM	 
☒	6- MOOCs.docx 1 part - 330 words	3%	Jan 23, 2023 1:59:39 PM	 
☐	13- SNA.docx 1 part - 370 words	10%	Jan 23, 2023 1:59:38 PM	 
☒	21- learning theories.docx 1 part - 420 words	14%	Jan 23, 2023 1:59:38 PM	 
☐	19- cloud computing.docx 1 part - 381 words	10%	Jan 23, 2023 1:59:36 PM	 
☒	10- machine learning.docx 1 part - 540 words	31%	Jan 23, 2023 1:59:37 PM	 
☐	24- constructivism.docx 1 part - 308 words	2%	Jan 23, 2023 1:59:37 PM	 

(n= 7)

An example of 5% similarity, Topic of 'Robots'

Plagiarism
Software: Turnitin

Robots are machines that are capable of performing tasks autonomously or semi-autonomously. They have been used for a variety of purposes throughout history, from manufacturing and assembly to search and rescue operations. Today, robots are becoming increasingly advanced and are being used in a wide range of industries, from healthcare and transportation to entertainment and education.

One of the most common uses for robots is in manufacturing and assembly. In these industries, robots are used to perform tasks that are too dangerous or difficult for humans to do. For example, robots can be used to weld, paint, and assemble products at high speeds and with a high degree of precision. They can also be used to handle hazardous materials and operate in environments that are too hot, cold, or dirty for humans to work in.

Another area where robots are increasingly being used is in healthcare. Medical robots can be used to assist surgeons in performing complex procedures, such as brain surgery or heart surgery. They can also be used to help patients with physical therapy and rehabilitation. In addition, robots are being used to perform routine tasks in hospitals, such as delivering medication and cleaning patient rooms.

Robots are also being used in transportation. Self-driving cars and drones are examples of robots that are being used to make transportation safer and more efficient. Self-driving cars can reduce the number of accidents caused by human error, and drones can be used to deliver packages and perform search and rescue operations.

In addition to these practical uses, robots are also being used in entertainment and education. For example, robots are being used to create interactive exhibits in museums and theme parks, and to help teach children about science, technology, engineering, and math (STEM).

Despite all the benefits that robots bring, there are also concerns about their impact on society. For example, there are concerns that robots will take jobs away from humans and lead to increased unemployment. There are also concerns about the safety of robots, as they may malfunction and cause harm to humans.

However, it is important to note that robots are not designed to replace human workers, but to work alongside them and make their jobs easier and safer. Moreover, with the advance in technology, many jobs that were considered to be impossible to automate are being done by robots, and this has increased productivity and efficiency.

In conclusion, robots are machines that are capable of performing a wide range of tasks, from manufacturing and assembly to healthcare and transportation. While there are concerns about their impact on society, robots have the potential to make our lives easier and safer. As technology continues to advance, we can expect to see even more uses for robots in the future.

An example of 14% similarity, Topic of 'Learning Theories'

Plagiarism Software: Turnitin

Learning theories are frameworks that explain how individuals acquire and process information. They provide a way for researchers and educators to understand how people learn, and to design educational programs and interventions that are effective. There are several different learning theories, each of which provides a unique perspective on the learning process.

One of the most widely known learning theories is classical conditioning, proposed by Ivan Pavlov. **Classical conditioning is a type of learning that occurs when a neutral stimulus is paired with a stimulus that naturally evokes a response.** For example, the sound of a bell (neutral stimulus) can be paired with food (natural stimulus) to make a dog salivate (response) when it hears the bell. This theory suggests that learning occurs through the repeated pairing of stimuli.

Another influential learning theory is operant conditioning, proposed by B.F. Skinner. This theory states that learning occurs when behavior is reinforced or punished. Reinforcement is something that increases the likelihood that a behavior will be repeated, while punishment is something that **decreases the likelihood of a behavior being repeated.** For example, if a student receives praise for turning in a homework assignment on time, they are more likely to repeat that behavior in the future.

Cognitive learning theory is a perspective that emphasizes the role of mental processes in learning. This theory, proposed by Jean Piaget, suggests that learning is an active process where individuals construct their own understanding of the world by organizing and reorganizing information. This theory emphasizes the importance of understanding and addressing the cognitive processes that are involved in learning.

Social learning theory, proposed by Albert Bandura, suggests that individuals learn by observing and imitating the behavior of others. This theory focuses on the role of observational learning, which occurs when people observe and imitate the actions of others. This theory emphasizes the importance of role models, and the influence of the social context on learning.

Finally, constructivism is a learning theory that emphasizes the role of the learner in actively constructing their own understanding of the world. Constructivism suggests that people learn best when they are actively engaged in the learning process, and when they are able to connect new information to what they already know. This theory emphasizes the importance of hands-on experiences, exploration, and discovery in learning.

In conclusion, learning theories are frameworks that explain how individuals acquire and process information. There are several different learning theories, each of which provides a unique perspective on the learning process. These theories include **classical conditioning, operant conditioning, cognitive learning theory, social learning theory,** and constructivism. Understanding these theories can help educators and researchers to design effective educational programs and interventions that meet the needs of learners.

An example of 64% similarity, Topic of 'Laws of physics'

Plagiarism Software: Turnitin

There are many laws of physics that we observe in daily life, but some of the most fundamental and commonly observed ones are:

1. **Newton's laws of motion:** These laws describe how objects move and how forces affect their motion. The first law states that an object at rest will remain at rest, and an object in motion will remain in motion in a straight line at a constant velocity, unless acted upon by a net external force. The second law states that the acceleration of an object is directly proportional to the net force acting on the object, and inversely proportional to its mass. The third law states that for every action, there is an equal and opposite reaction.

2. **Law of conservation of energy:** This law states that energy cannot be created or destroyed, only converted from one form to another. This means that the total amount of energy in a closed system remains constant.

3. **Law of conservation of momentum:** This law states that in an isolated system, the total momentum of all objects before a collision is equal to the total momentum of all objects after the collision.

4. **Law of thermodynamics:** These laws describe how heat, temperature, and other thermal properties are related. The first law, also known as the law of energy conservation, states that energy cannot be created or destroyed, only converted from one form to another. The second law, also known as the law of entropy, states that in any energy transfer or transformation, the total entropy of the system will always increase over time.

5. **These are some of the most fundamental laws of physics** that we observe in daily life, but there are many other laws and principles that govern how the physical world works.

Plagiarism check using iThenticate®

Table 1. iThenticate® Plagiarism check results (n = 25 essays)

Essay topics	Essay count (%)	Similarity score
Cloud storage; Massive open online courses (MOOCs); constructivism; Robots; use of smartphones; Internet revolution; unsupervised machine learning; creativity; assessment in education; Natural Language Processing (NLP); Driving schools; use of chatbots in education; Technology-Enhanced Learning; self-regulated learning; online banking; leadership; spam emails; hybrid learning	17 (68%)	< 10%
Social Network Analysis; learning theories; cloud computing; classification in machine learning; marketing plans	5 (20%)	10–20%
Machine learning; prediction; clustering	3 (12%)	20–40%
None	0 (0%)	> 40%
Total and Average	Total (n = 25)	Average (8.76%)

Plagiarism check using



Table 2. Turnitin® Plagiarism check results (n = 25 essays)

Essay topics	Essay count (%)	Similarity score
Kindergartens; Cultures of the Middle East and South America; Hybrid and blended teaching; Educational measurement; Difference of jobs in California and New York; Flipped vs traditional lecturing; Clustering and association rule mining; Psychologists and psychiatrists; Differential equations; PhD (Doctoral holder); Good teacher; Respiratory systems	12 (48%)	< 10%
Clustering algorithm; C# and Java; Data science and machine learning; Object Oriented Programming; Computer science and computer engineering; Organic chemistry	6 (24%)	10-20%
Child usage of screens; Learning Analytics and Educational Data Mining; Deep learning; Logistic regression; Global warming; Data structure	6 (24%)	20-40%
Laws of physics	1 (4%)	> 40%
Total and Average	Total (n = 25)	Average (13.72%)

Interesting Remarks, Paper 1





Remarks

- Students may possibly use ChatGPT to complete essay-type assignments without getting caught
- Topics matter!
- We show evidence that plagiarism with ChatGPT is already a pressing concern requiring further attention.
- Popular anti-plagiarism software companies are in challenge

Humanizers...

if you're not [logged in](#)

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Undetectable AI

Write and humanize AI papers, reports, and blogs. Bypass AI detectors. All with one click.

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Humanize AI text

Humanize AI text with the smartest AI humanizer

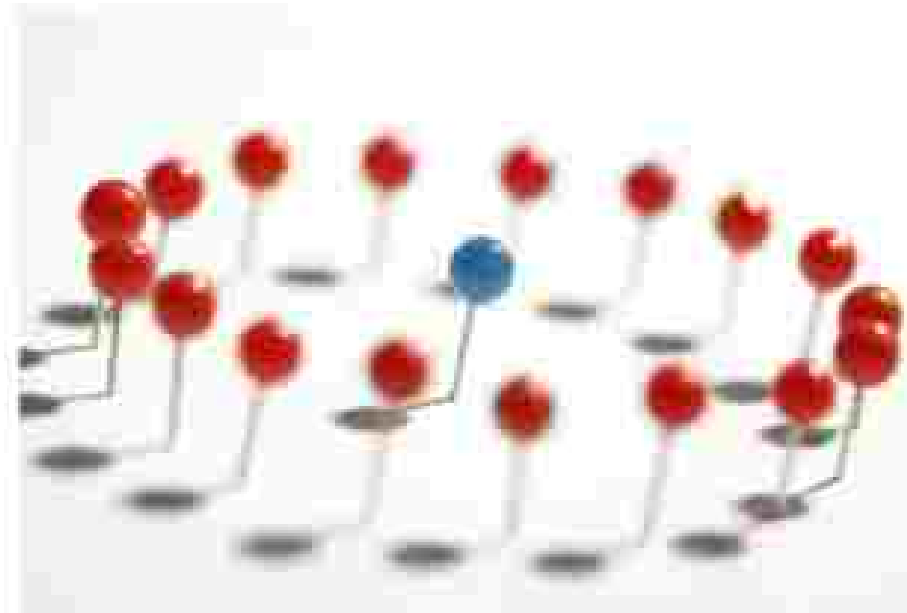
Undetectable AI generates content that reads like it was written by a human. It's the only AI humanizer that can bypass AI detectors like Turnitin, Grammarly, and others. It's the only AI humanizer that can generate content that is 100% undetectable. It's the only AI humanizer that can generate content that is 100% undetectable. It's the only AI humanizer that can generate content that is 100% undetectable.

The Undetectable AI humanizer is a powerful tool that can help you write content that is 100% undetectable. It's the only AI humanizer that can bypass AI detectors like Turnitin, Grammarly, and others. It's the only AI humanizer that can generate content that is 100% undetectable. It's the only AI humanizer that can generate content that is 100% undetectable. It's the only AI humanizer that can generate content that is 100% undetectable.

Over 100,000 people have used the Undetectable AI humanizer to write content that is 100% undetectable. It's the only AI humanizer that can bypass AI detectors like Turnitin, Grammarly, and others. It's the only AI humanizer that can generate content that is 100% undetectable. It's the only AI humanizer that can generate content that is 100% undetectable. It's the only AI humanizer that can generate content that is 100% undetectable.

Get started now >

Best practices with Generative AI



Best Practices on the use of Gen. AI

Generative AI or other editorial assistance may only be used to offer advice and guidance on:

- Correcting spelling and punctuation.
- Ensuring text follows the conventions of grammar and syntax in written English.
- Shortening long sentences or reducing long paragraphs without changes to the overall content.

Best Practices on the use of Gen. AI

Generative AI or other editorial assistance may only be used to offer advice and guidance on:

- Ensuring the consistency, formatting and ordering of page numbers, headers and footers, and footnotes and endnotes.
- Improving the positioning of tables and figures and the clarity, grammar, spelling and punctuation of any text in table or figure legends.

Best Practices on the use of Gen. AI

Other advises:

- Ensure generative AI is used with human supervision
- Verify the resources when relying on generative AI

Teachers are subjective to the use of Generative AI

Northwestern university policy to instructors:

			
	Has it doesn't support my learning goals	Maybe, depending on the assignment	Yes; use is generally permitted
POLICY	Create explicit syllabus policy about which tools are welcome	Create explicit syllabus policy about where and how GAI tools are welcome and where they are not	Create explicit syllabus policy about what uses of GAI are permitted throughout the course
	Discuss your policy and what reasoning with your students	Discuss your policy; explain citation guidelines, and plan for flexibility as tools evolve	Discuss what ethical use of GAI tools looks like in your field; explain citation guidelines, and plan for flexibility as tools evolve

- Case 1: AI tools to be permitted freely
- Case 2: Usage permitted with limitations
- Case 3: No Generative AI is permitted

Inform your students that there will be an automatic and manual check even after the course ends.

- includes check of false, inaccurate info, different style, etc.

The background of the slide is a deep blue, textured surface representing the ocean. In the center-left, there is a bright orange life preserver with three white reflective bands. A white rope is loosely coiled around the life preserver. Overlaid on the right side of the life preserver is a semi-transparent light blue rectangular box. Inside this box, the words "Final Remarks" are written in a large, bold, black sans-serif font.

Final Remarks

Digital Ethics, Academic Integrity and Plagiarism- Understanding the phenomenon, complexity, types and practical examples

Thank you!

Fostering Digital Ethics in Higher Education:
Ethical Technologies, Responsibility, and Rights in
the Digital Age

27 Nov 2025

Online, Kyrgyzstan

mohammad.khalil@ulb.no

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