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# Responsible Artificial Intelligence – legal perspectives on emerging technologies and research integrity

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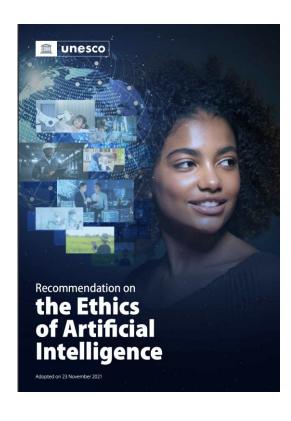




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# Emerging legal and regulatory landscape

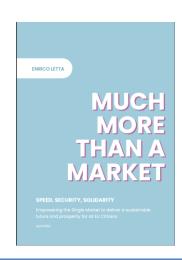
Selected documents and guidelines













# Emerging legal and regulatory landscape

Living guidelines on the responsible use of generative AI in research – European Code of Conduct for RI





- Reliability in ensuring the quality of research, reflected in the design, methodology, analysis and use of resources. This includes aspects related to verifying and reproducing the information produced by the AI for research. It also involves being aware of possible equality and non-discrimination issues in relation to bias and inaccuracies.
- Honesty in developing, carrying out, reviewing, reporting and communicating on research transparently, fairly, thoroughly and impartially. This principle includes disclosing that generative AI has been used.
- Respect for colleagues, research participants, research subjects, society, ecosystems, cultural heritage and the environment. Responsible use of generative AI should take into account the limitations of the technology, its environmental impact and its societal effects (bias, diversity, non-discrimination, fairness and prevention of harm). This includes the proper management of information, respect for privacy, confidentiality and intellectual property rights, and proper citation.
  - Accountability for the research from idea to publication, for its management and organisation, for training, supervision and mentoring, and for its wider societal impacts. This includes responsibility for all output a researcher produces, underpinned by the notion of human agency and oversight.

# RI, emerging technologies & Human Rights

RI is located within the human rights framework

#### **Good Research Practices**

- Research Environment
- Training, Supervision and Mentoring
- •Research Procedures
- Safeguards
- Data Practices and Management
- Collaborative Working
- Publication, Dissemination, and Authorship
- •Reviewing and Assessment

## **Human rights**

- Right to education
- Right to teach
- Right to be informed
- Academic freedom
- Right to free movement
- Right to desirable work
- Sustainability rights
- Freedom of speech
- Freedom from

#### discrimination

- Freedom of opinion and information
- Right to publish
- Right for private life
- Freedom for torture and degrading treatment

# Emerging technologies' challenges

- Lack of algorithmic
- transparency
- Unfairness, bias and
- discrimination
- Lack of contestability
- Opacity of Al Systems
- Legal personhood issues
- Adverse effects on workers
- Privacy and data protection
- issues
- Liability for damage
- Lack of accountability for
- harms
- Intellectual property rights



Reliability

Honesty

Respect

**Accountability** 



# RI, emerging technologies & Intellectual Property Rights

RI, Al and Copyright and Patents

	Intellectual Property Rights	Emerging technologies Challenges (patens & copyright)
<ul><li>Reliability</li></ul>	Patents	<ul> <li>Al inventorship?</li> </ul>
<ul><li>Honesty</li></ul>	Copyright	<ul> <li>Patent protection for AI generated works</li> </ul>
<ul><li>Respect</li></ul>	Trademarks	<ul> <li>Can AI be an author?</li> <li>Is there copyright protection for works generated by AI?</li> </ul>
	Industrial designs	
<ul><li>Accountability</li></ul>	Geographical indications	<ul> <li>Who is the owner of an AI-generated work?</li> </ul>
	Trade secrets	<ul> <li>Data ownership</li> </ul>
		• Infringements of IPRs



Al Inventorship – policy discussions

#### I. Al inventorship – can Al be an inventor ? (Al-generated inventions)

- 1. DABUS case
- test cases in IP offices worldwide (Europe (EPO), UK, US, South Africa, South Korea, Australia; 2018-2022+)
- no protection can be granted
- 2. International policy discussions
- World Intellectual Property Organisation *AI Inventions* (2023): should we continue to require only human inventorship?
- **United Kingdom**: (28 June 2022) on patent *Artificial Intelligence and Intellectual Property: Copyright and Patents:* Government Response to Consultation on protection for AI-devised inventions
- no legal change needed no evidence that UK patent law was inappropriate to protect inventions made using AI
- United States Patent and Trademark Office, Department of Commerce: Request for Comments Regarding Artificial Intelligence and Inventorship (Guidance issued in February 2024): no AI inventorship possible
- **II. Patent protection for AI systems and AI-assisted inventions**
- involve humans
- All is to be treated as mathematical method (must solve a technical purpose/contributes to technical solution)

Human supervision/human involvement



Al & copyright – policy discussions

- I. Can AI be an author?
- II. Is there copyright protection for works generated by AI?
- Copyright incentivise products of human creativity and intelligence
- Level of creativity required for copyright protection
- In common law jurisdictions (Australia, UK, USA) no provision requiring an author to be human.
- Data is not protected compilations of data may enjoy copyright protection
- Software is protected under the Berne Convention
- European Directives defined originality for computer programmes, databases and photographs as "the author's own intellectual creation".

Lawmakers moving toward a position where modifying the output of an AI system and creating a new (derived) work allows the <a href="https://example.com/html/>human author">human author</a> to obtain copyright.

Human supervision/human involvement

Data ownership - policy discussions

#### I. Who is the owner of an AI-generated work?

- Personal data roles and responsibilities
- Roles of the parties involved (i.e., data controller, data processor/service provider etc.)
- Mixed roles/joint controllership are also possible and should be considered on a case-by-case basis

#### II. Data owner

- Different national regulations
- EU acts regulate data ownership (i.e., principles of open data)
- Importance of contracts

Human supervision/human involvement

VS

Organisational/institutional responsibilities



#### Infringements - policy discussions

- Materials used to train the AI (input) and the results created by the AI (output)
- Materials used to train the AI could be copyrighted AND it is likely that reproductions of these materials are made during the training process.
- Reproductions may constitute an infringement to the copyrights of the author of these materials.
- Exceptions vary from jurisdiction to jurisdiction (US: fair use, EU: exclusions for research, education, cultural and heritage institutions, etc.)
- Very difficult to identify which materials could be used to train an AI system without infringing any IPRs
- US Supreme Court ruling the Warhol case on fair use.

Human supervision/human involvement

VS

Organisational/institutional responsibilities



# Responsible AI within the existing IPRs legal framework

In lieu of recommendations

#### A need for a holistic, global approach to main challenges

- Copyright harmonisation (WITTEM project)
- Patent procedures standardisation (European Patent Office)

### **Training & education**

- Standard frameworks
- Multidisciplinary skills
- Costs & resources needed

#### Guidance and norms for joint responsibilities and roles in AI ownership

- Roles and responsibilities of researchers, RPOs, RFOs, etc.
- Repositories of "responsible" and recommended AI tools
- Costs & resources needed



### List of cases

Andersen v. Stability Al Ltd., 23-cv-00201-WHO, (N.D. Cal. Oct. 30, 2023) ('William H. Orrick United States District Judge Order on Motions to Dismiss and Strike').

Andy Warhol Foundation for the Visual Arts, Inc v Goldsmith., 17 U.S.C. § 107(1).

District of Delaware, 'Thomson Reuters Enterprise Centre GmbH et al v. ROSS Intelligence Inc.' (United States District Court).

Doe v GitHub, Inc., 4:22-cv-06823, (N.D. Cal.)

Getty Images (US) Inc & Ors v Stability AI Ltd [2023] EWHC 3090 (Ch).

Getty Images (US), Inc. v. Stability AI, Inc., 1:23-cv-00135, (D. Del.).

Kadrey v. Meta Platforms, Inc., 3:23-cv-03417, (N.D. Cal.).

The New York Times Company v. Microsoft Corporation, 1:23-cv-11195, (S.D.N.Y.).



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Letta, Enrico. (2024). 'Much more than a market – Speed, Security, Solidarity, Empowering the Single Market to deliver a sustainable future and prosperity for all EU Citizens', https://www.consilium.europa.eu/media/ny3j24sm/much-more-than-a-market-report-by-enrico-letta.pdf.

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'When Code Creates: A Landscape Report On Issues At The Intersection Of Artificial Intelligence And Intellectual Property Law'. IPOS, SMU Centre for AI, CAIDG, 2024, available: https://www.ipos.gov.sg/docs/default-source/resources-library/when-code-creates-landscape-report-on-ip-issues-in-ai.pdf.









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