Governance Tools — Artificial Intelligence

Disclaimer: AI is a rapidly evolving field, and policy is trying to catch up. The presented list is not meant to be final and will be updated throughout the course of the Climateurope2 project. In addition, some policies might not be applicable anymore due to changes in government.

Governance tools related to policy divided by region of application:

- Europe
  - Council of Europe Framework Convention on artificial intelligence and human rights, democracy, and the rule of law (2024)
  - Artificial Intelligence Act (Regulation (EU) 2024/1689)
- The United States
  - Blueprint for an AI Bill of Rights
  - Executive Order on Safe, Secure, and Trustworthy Artificial Intelligence (2023)
- China
  - Interim Measures for the Management of Generative Artificial Intelligence Services (2023)
- The United Kingdom
  - Policy implications of artificial intelligence (2024)
- International
  - OECD: Principles for trustworthy AI (published 2019, updated 2024)
  - UNESCO: Recommendation on the ethics of Artificial Intelligence (2021)
  - Hiroshima Process International Code of Conduct for Advanced AI Systems (2023)

Technical standards and specifications:

Name	Type	Date	
		Publication	Revision
ISO/IEC 22989:2022 Information technology —Artificial intelligence — Artificial intelligence concepts and terminology	Standard	2022	-
ISO/IEC 25059:2023 Software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE) — Quality model for AI systems	Standard	2023	-
ISO/IEC 42001:2023 Information technology — Artificial intelligence — Management Systems	Standard	2023	-
ISO/IEC 23894:2023 Information technology — Artificial intelligence — Guidance on risk management	Standard	2023	-

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ISO/IEC 38507:2022 Information technology — Governance of IT — Governance implications of the use of artificial intelligence by organizations	Standard	2022	-
ISO/IEC 23053:2022 Framework for Artificial Intelligence (AI) Systems Using Machine Learning (ML)	Standard	2022	-
ISO/IEC 5338:2023 Information technology — Artificial intelligence — AI system life cycle processes	Standard	2023	-
ISO/IEC TR 24030:2024 Information technology — Artificial intelligence (AI) — Use cases	Technical Report	2024	-
ISO/IEC TS 25058:2024 Systems and software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE) — Guidance for quality evaluation of artificial intelligence (AI) systems	Technical Specification	2024	-
ISO/IEC FDIS 42006 Information technology — Artificial Intelligence — Requirements for bodies providing audit and certification of artificial intelligence management systems	Standard	Under development	-

Conventions:

- FAIR principles for machine learning (FAIR4ML):
    - Katz, D. S., Pollard, T., Psomopoulos, F., Huerta, E., Erdmann, C., & Blaiszik, B. (2020). FAIR principles for Machine Learning models. Research Data Alliance Virtual Plenary 16 (RDA VP16). Zenodo. https://doi.org/10.5281/zenodo.4271996
    - Katz, Daniel S., Psomopoulos, Fotis and Castro, Leyla Jael, (2021) Working Towards Understanding the Role of FAIR for Machine Learning. 2nd Workshop on Data and Research Objects Management for Linked Open Science. https://doi.org/10.4126/FRL01-006429415
- Data management:
    - Baack, S. et al. (2025) Towards Best Practices for Open Datasets for LLM Training. arXiv. https://arxiv.org/abs/2501.08365
    - Akhtar, M. et al., (2024) Croissant: A Metadata Format for ML-Ready Datasets. arXiv. https://arxiv.org/abs/2403.19546