



AI working group bibliography

Introduction

This bibliography is presented with neutrality, offering no judgement or endorsement regarding the content of the listed works. Each entry has been read by various members of the AI working group and may have influenced our perspectives. The list cannot be exhaustive of all of the material viewed by the working group or published. It is important to note that the absence of any work from this list does not imply disapproval or lack of endorsement. The articles are presented in separate lists of publications, news and opinion, reports, guidance and events. The articles were read by the committee up to October 2024. While the Committee has no plans to maintain and update the list, the Committee would welcome collaboration from the sector to use and adapt this list as they see fit.

Publications

1. Bostrom, Ann, Julie L. Demuth, Christopher D. Wirz, Mariana G. Cains, Andrea Schumacher, Deianna Madlambayan, Akansha Singh Bansal, et al. Trust and Trustworthy Artificial Intelligence: A Research Agenda for AI in the Environmental Sciences. *Risk Analysis* 44, no. 6. 2024. 1498–1513.
<https://doi.org/10.1111/risa.14245>.
2. Blau, Wolfgang, Vinton G. Cerf, Juan Enriquez, Joseph S. Francisco, Urs Gasser, Mary L. Gray, Mark Greaves, et al. “Protecting Scientific Integrity in an Age of Generative AI.” *Proceedings of the National Academy of Sciences* 121, no. 22 (May 21, 2024). <https://doi.org/10.1073/pnas.2407886121>
3. Cotton, Debby R. E., Peter A. Cotton, and J. Reuben Shipway. Chatting and Cheating: Ensuring Academic Integrity in the Era of ChatGPT. *Innovations in Education and Teaching International* 61, no. 2. 2024. 228–39.
<https://doi.org/10.1080/14703297.2023.2190148>.
4. Else, Holly. Paper-Mill Detector Put to the Test in Push to Stamp out Fake Science. *Nature* 612, no. 7940. 2022. 386–87. <https://doi.org/10.1038/d41586-022-04245-8>.

5. Else, Holly, and Richard Van Noorden. The Fight against Fake-Paper Factories That Churn out Sham Science. *Nature* 591, no. 7851. 2021. 516–19.
<https://doi.org/10.1038/d41586-021-00733-5>.
6. Ganjavi, Conner, Michael B. Eppler, Asli Pekcan, Brett Biedermann, Andre Abreu, Gary S. Collins, Inderbir S. Gill, and Giovanni E. Cacciamani. Publishers and Journals Instructions to Authors on Use of Generative Artificial Intelligence in Academic and Scientific Publishing: Bibliometric Analysis. *BMJ* 384. 2024. e077192.
<https://doi.org/10.1136/bmj-2023-077192>.
7. Haibe-Kains, Benjamin, George Alexandru Adam, Ahmed Hosny, Farnoosh Khodakarami, Massive Analysis Quality Control. MAQC. Society Board of Directors, Thakkar Shraddha, Rebecca Kusko, et al. Transparency and Reproducibility in Artificial Intelligence. *Nature* 586, no. 7829. 2020. E14–16.
<https://doi.org/10.1038/s41586-020-2766-y>.
8. Khalifa, Mohamed, and Mona Albadawy. Using Artificial Intelligence in Academic Writing and Research: An Essential Productivity Tool. *Computer Methods and Programs in Biomedicine Update* 5. 2024. 100145.
<https://doi.org/10.1016/j.cmpbup.2024.100145>.
9. Mongan, John, Linda Moy, and Charles E. Kahn. “Checklist for Artificial Intelligence in Medical Imaging (Claim): A Guide for Authors and Reviewers.” *Radiology: Artificial Intelligence* 2, no. 2 (March 1, 2020). <https://doi.org/10.1148/ryai.2020200029>.
10. McKinney, Scott Mayer, Marcin Sieniek, Varun Godbole, Jonathan Godwin, Natasha Antropova, Hutan Ashrafian, Trevor Back, et al. International Evaluation of an AI System for Breast Cancer Screening. *Nature* 577, no. 7788. 2020. 89–94.
<https://doi.org/10.1038/s41586-019-1799-6>.
11. Pataranutaporn, Pat, Ruby Liu, Ed Finn, and Pattie Maes. Influencing Human–AI Interaction by Priming Beliefs about AI Can Increase Perceived Trustworthiness, Empathy and Effectiveness. *Nature Machine Intelligence* 5, no. 10. 2023. 1076–86.
<https://doi.org/10.1038/s42256-023-00720-7/>
12. Riley, Patrick. Three Pitfalls to Avoid in Machine Learning. *Nature* 572, no. 7767. 2019. 27–29. <https://doi.org/10.1038/d41586-019-02307-y>

13. Arora, Anmol, Joseph E. Alderman, Joanne Palmer, Shaswath Ganapathi, Elinor Laws, Melissa D. McCradden, Lauren Oakden-Rayner, et al. The Value of Standards for Health Datasets in Artificial Intelligence-Based Applications. *Nature Medicine* 29, no. 2023. 2929–38. <https://doi.org/10.1038/s41591-023-02608-w>.
14. Kendall, Graham, and Jaime A. Teixeira Da Silva. Risks of Abuse of Large Language Models, like CHATGPT , in Scientific Publishing: Authorship, Predatory Publishing, and Paper Mills. *Learned Publishing* 37, no. 1. 2024. 55–62. <https://doi.org/10.1002/leap.1578>.
15. Nazer, Lama H., Razan Zatarah, Shai Waldrip, Janny Xue Chen Ke, Mira Moukheiber, Ashish K. Khanna, Rachel S. Hicklen, et al. Bias in Artificial Intelligence Algorithms and Recommendations for Mitigation. *PLOS Digital Health* 2, no. 6. 2023. e0000278. <https://doi.org/10.1371/journal.pdig.0000278>.

16. News and opinion

17. Adam Schrader. Demand for a New Tool That Poisons A.I. Models Has Been Off the Charts . *Artnet News*. 2024. <https://news.artnet.com/art-world/nightshade-ai-downloaded-250000-times-2426956>.
18. Ball, Philip. Is AI Leading to a Reproducibility Crisis in Science? *Nature* 624, no. 7990. 2023. 22–25. <https://doi.org/10.1038/d41586-023-03817-6>.
19. Bockting, Claudi L., Eva A. M. van Dis, Robert van Rooij, Willem Zuidema, and Johan Bollen. Living Guidelines for Generative AI — Why Scientists Must Oversee Its Use. *Nature* 622, no. 7984. 2023. 693–96. <https://doi.org/10.1038/d41586-023-03266-1>.
20. COPE: Committee on Publication Ethics. Authorship and AI Tools. 2023. <https://publicationethics.org/cope-position-statements/ai-author>.
21. Dickinson, Jim. Theres No Point Comforting Ourselves Over AI and Cheating When We Dont Know What Cheating Is. *Wonkhe*. 2024. <https://wonkhe.com/wonk-corner/theres-no-point-comforting-ourselves-over-ai-and-cheating-when-we-dont-know-what-cheating-is/>
22. Floridi, Luciano. Establishing the Rules for Building Trustworthy AI. *Nature Machine Intelligence* 1, no. 6. 2019. 261–62. <https://doi.org/10.1038/s42256-019-0055-y>
23. Gibney, Elizabeth. Could Machine Learning Fuel a Reproducibility Crisis in Science? *Nature* 608, no. 7922. 2022. 250–51. <https://doi.org/10.1038/d41586-022-02035-w>.

24. Heil, Benjamin J., Michael M. Hoffman, Florian Markowetz, Su-In Lee, Casey S. Greene, and Stephanie C. Hicks. Reproducibility Standards for Machine Learning in the Life Sciences. *Nature Methods* 18, no. 10. 2021. 1132–35.
<https://doi.org/10.1038/s41592-021-01256-7/>.
25. Kwon, Diana. AI Is Complicating Plagiarism. How Should Scientists Respond? *Nature*. 2024. <https://doi.org/10.1038/d41586-024-02371-z>.
26. Listgarten, Jennifer. The Perpetual Motion Machine of AI-Generated Data and the Distraction of ChatGPT as a Scientist . *Nature Biotechnology* 42, no. 3. 2024. 371–73. <https://doi.org/10.1038/s41587-023-02103-0>.
27. Liang, Weixin, Girmaw Abebe Tadesse, Daniel Ho, L. Fei-Fei, Matei Zaharia, Ce Zhang, and James Zou. Advances, Challenges and Opportunities in Creating Data for Trustworthy AI. *Nature Machine Intelligence* 4, no. 8. 2022. 669–77.
<https://doi.org/10.1038/s42256-022-00516-1>.
28. Liverpool, Layal. AI Intensifies Fight against Paper Mills That Churn out Fake Research. *Nature* 618, no. 7964. 2023. 222–23. <https://doi.org/10.1038/d41586-023-01780-w>.
29. Lyons, Fatemeh Torabi, Lewis Hotchkiss, Emma Squires, Prof Simon E. Thompson and Prof Ronan A. AI Series: Healthy Datasets for Optimised AI Performance. *Real World Data Science*. 2024.
<https://realworlddatascience.net/ideas/posts/2024/05/07/ai-series-3.html>.
30. Madine, Priya. How AI Impacts on Academic Publishing. *HEPI*. 2024.
<https://www.hepi.ac.uk/2024/04/26/how-ai-impacts-on-academic-publishing/>.
31. Parrilla, Juan Manuel. ChatGPT Use Shows That the Grant-Application System Is Broken. *Nature* 623, no. 7986. 2023. 443–443. <https://doi.org/10.1038/d41586-023-03238-5>.
32. Singh Chawla, Dalmeet. Fake Research Papers Flagged by Analysing Authorship Trends. *Nature*. 2024. <https://doi.org/10.1038/d41586-024-00344-w>.
33. Naujokaitytė, Goda. Universities Ready to Take up Generative Artificial Intelligence, but Say Guidelines Are Needed. *Science|Business*. 2023.
<https://sciencebusiness.net/news/universities/universities-ready-take-generative-artificial-intelligence-say-guidelines-are>.

34. Stegmann, Jens-Ulrich, Rory Littlebury, Markus Trengove, Lea Goetz, Andrew Bate, and Kim M. Branson. Trustworthy AI for Safe Medicines. *Nature Reviews Drug Discovery* 22, no. 10. 2023. 855–56. <https://doi.org/10.1038/s41573-023-00769-4>.
35. Stilgoe, Jack. What Does It Mean to Trust a Technology. *Science*. 2023. <https://www.science.org/doi/10.1126/science.adm9782>
36. Tarran, Brian. AI and Digital Ethics in 2023: A Remarkable, Eventful Year. *Real World Data Science*. 2023. <https://realworlddatascience.net/ideas/posts/2024/05/07/ai-series-3.html>.
37. Techerati: The State of Global AI Regulation and Strategy. *Techerati*. 2023. <https://www.techerati.com/features-hub/the-state-of-global-ai-regulation-and-strategy/>.
38. Topinka, Robert. The Software Says My Student Cheated Using AI. They Say They're Innocent. Who Do I Believe? *The Guardian* 2024. <https://www.theguardian.com/commentisfree/2024/feb/13/software-student-cheated-combat-ai>.
39. UK Research and Innovation. Responsible and Trustworthy Artificial Intelligence. 2022. <https://www.ukri.org/opportunity/responsible-and-trustworthy-artificial-intelligence/>
40. Weigert, Verana. Three Key Themes on Artificial Intelligence . *Research Information*. 2024. <https://www.researchinformation.info/analysis-opinion/three-key-themes-artificial-intelligence>.
41. Wellcome. Use of AI Tools in Funding Applications - What We Do - All Our Work. 2023. <https://wellcome.org/who-we-are/positions-and-statements/joint-statement-generative-ai>.
42. Van Noorden, Richard. Hundreds of Gibberish Papers Still Lurk in the Scientific Literature. *Nature* 594, no. 7862. 2021. 160–61. <https://doi.org/10.1038/d41586-021-01436-7>.
43. Van Noorden, Richard, and Jeffrey M. Perkel. AI and Science: What 1,600 Researchers Think. *Nature* 621, no. 7980. 2023. 672–75. <https://doi.org/10.1038/d41586-023-02980-0>.

Reports

44. British Science Association. How AI Can Support Science, a New Report from British Science Association and Google DeepMind. 2023.
<https://www.britishscienceassociation.org/news/ai-support-science-new-report-british-science-association-google-deepmind>.
45. Cabinet Office: The Generative AI Framework for HMG: Cabinet Office. The Generative AI Framework for HMG. London: UK Government. 2024. [Generative AI Framework for HMG \(HTML\) - GOV.UK](#)
46. Communications and Digital Lords Select Committee Inquiry into Large Language Models: House of Lords Communications and Digital Committee. Inquiry into Large Language Models. London: UK Parliament. 2023. https://dareuk.org.uk/wp-content/uploads/2024/06/2310_DARE_UK_DigInfraLandscapeReview_Final.pdf.
47. COPE: Committee on Publication Ethics. Artificial Intelligence. AI. in Decision Making. 2021. <https://publicationethics.org/resources/discussion-documents/artificial-intelligence-ai-decision-making>.
48. Davies, Matt, and Michael Birtwistle. Regulating AI in the UK: Strengthening the UKs Proposals for the Benefit of People and Society. Ada Lovelace Institute. 2023.
<https://www.adalovelaceinstitute.org/report/regulating-ai-in-the-uk/>
49. NHS AI Lab and Health Education England. Understanding Healthcare Workers Confidence in AI: NHS AI Lab and Health Education England. Understanding Healthcare Workers Confidence in AI. London: NHS AI Laboratory. 2022.
<https://digital-transformation.hee.nhs.uk/building-a-digital-workforce/dart-ed/horizon-scanning/understanding-healthcare-workers-confidence-in-ai/foreword/title-page>
50. Rough, Elizabeth, and Nikki Sutherland. Artificial Intelligence: A Reading List. House of Commons Library Research Briefing. 2024.
<https://commonslibrary.parliament.uk/research-briefings/cbp-10003/>
51. Royal Society. Science in the Age of AI. 2024. <https://royalsociety.org/news-resources/projects/science-in-the-age-of-ai/>.

52. Royal Society. Generative AI, Content Provenance and a Public Service Internet. 2023 <https://royalsociety.org/news-resources/publications/2023/digital-content-provenance-bbc/>.
53. Royal Society. Explainable AI: The Basics.” Royal Society Policy Briefing. Accessed October 25, 2024. <https://royalsociety.org/-/media/policy/projects/explainable-ai/ai-and-interpretability-policy-briefing.pdf>.
54. Royal Statistical Society. Asks of the New Government. 2024. <https://rss.org.uk/policy-campaigns/policy/asks-of-the-new-government/#:~:text=Statistics%20in%20Action%3A%20A%20manifesto,of%20data%20in%20the%20UK>.
55. Royal Statistical Society: Response to Government White Paper and Evidence to the House of Lords Committee on LLMs: Royal Statistical Society. Response to the Government White Paper on AI Regulation. London: Royal Statistical Society. 2023. <https://committees.parliament.uk/writtenevidence/36679/pdf/>.
56. Morgan Healey STM Publishing and Search and Selection. STM White Paper: Generative AI in Scholarly Communications. 14 December 2023. <https://www.stm-publishing.com/stm-new-white-paper-launch-generative-ai-in-scholarly-communications/>.
57. UK Centre for Data Ethics Innovation: Centre for Data Ethics and Innovation. Two Year Review. London: UK Government. 2021. <https://www.gov.uk/government/publications/centre-for-data-ethics-and-innovation-two-year-review>.
58. UK Government. International Scientific Report on the Safety of Advanced AI. 2024. <https://www.gov.uk/government/publications/international-scientific-report-on-the-safety-of-advanced-ai>.
59. UK Government White Paper on AI Regulation/Innovation: Department for Science, Innovation and Technology. A Pro-Innovation Approach to AI Regulation. London: UK Government. 2023. <https://www.gov.uk/government/publications/ai-regulation-a-pro-innovation-approach>.
60. UK National AI Strategy: Department for Digital, Culture, Media and Sport, Department for Business, Energy and Industrial Strategy, and Office for Artificial Intelligence. National AI Strategy. London: UK Government, 2021. <https://www.gov.uk/government/publications/national-ai-strategy>.

61. UK-POST: Short Note on AI Regulation: Parliamentary Office of Science and Technology. Policy Implications of Artificial Intelligence. AI. London: UK Parliament, 2024. <https://post.parliament.uk/research-briefings/post-pn-0708/>.
62. UK Statistics Authority. Ethical Considerations in the Use of Machine Learning for Research and Statistics. London: UK Statistics Authority, 2021. <https://uksa.statisticsauthority.gov.uk/publication/ethical-considerations-in-the-use-of-machine-learning-for-research-and-statistics/>.
63. UNECE High Level Group for Modernisation of Official Statistics. Report on the Use of Large Language Models. Geneva: United Nations Economic Commission for Europe, 2021. <https://unece.org/statistics/documents/2021/05/working-documents/report-high-level-group-modernisation-official>.
64. WHO: Ethics and Governance of AI for Health: Guidance on Large Multi-Modal Models: World Health Organization. Ethics and Governance of AI for Health: Guidance on Large Multi-Modal Models. Geneva: WHO. 2023. <https://www.who.int/publications/i/item/9789240084759>

Guidance

65. BMJ 31/1/2024: Publishers and Journals Instructions to Authors on Use of Generative AI in Academic and Scientific Publishing. BMJ. 2024. <https://www.bmj.com/content/384/bmj-2023-077192>
66. Coulton, Paul, Naomi Jacobs, Joe Lindley, Dan Richards, Glynn Stockton, and Roger Whitham. Design Pedagogy and Generative AI White Paper. DPxGenAI Working Group, Lancaster University School of Design. 2023. https://designresearch.works/assets/school_of_design_pedagogy_genai_whitepaper_v1.0.pdf.
67. Heriot-Watt University. Introduction to Artificial Intelligence. AI. Content Creation Tools and University Study: Student Guide. 2023. https://www.hw.ac.uk/uk/students/doc/Intro_to_AI_content_creation_tools_unive.pdf.
68. Leslie, David. Understanding Artificial Intelligence Ethics and Safety: A Guide for the Responsible Design and Implementation of AI Systems in the Public Sector. The Alan Turing Institute, 2019.

<https://www.turing.ac.uk/news/publications/understanding-artificial-intelligence-ethics-and-safety>.

69. McGill School of Computer Science. The machine learning reproducibility checklist v2.0. 7th Apr. 2020. <https://www.cs.mcgill.ca/~jpineau/ReproducibilityChecklist.pdf>.
70. Napier University, Student Portal. Accessed 21 October 2024. <https://my.napier.ac.uk/your-studies/improve-your-academic-and-study-skills/referencing-and-academic-integrity/artificial-intelligence-tools>.
71. University of Dundee. Use of Generative Artificial Intelligence for Students. 2023 <https://www.dundee.ac.uk/guides/use-generative-artificial-intelligence-students>.

Events

72. Foundation for Science and Technology Event. Can Artificial Intelligence be regulated and if so how? 2024. <https://www.foundation.org.uk/Events/2024/Can-Artificial-Intelligence-be-regulated-and-if-so>.
73. Guardian Live: Disinformation, Bias and Data Theft: Can AI Be Trusted. 2024. [Disinformation, bias and data theft: Can AI be trusted? | Guardian Live events | The Guardian](#).
74. Parayska-Pomsta, Kaska, Fraser Simpson, and Tracey Brown. Priorities for Action on AI: What Does the Social Science Evidence Say. Academy of Social Sciences Webinar. 2024. <https://acss.org.uk/news/watch-priorities-for-action-on-ai-what-does-the-social-science-evidence-say/>.