

PANEL FOR THE FUTURE OF SCIENCE AND TECHNOLOGY (STOA) CENTER FOR ARTIFICIAL INTELLIGENCE (C4AI)

This is a repository of publications and online resources prepared by the Panel for the Future of Science and Technology (STOA) and other services of the European Parliamentary Research Service (EPRS).

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STOA - Panel for the Future of Science and Technology

C4AI - Center for Artificial Intelligence

EPRS - European Parliamentary Research Service

ESMH - European Science-Media Hub

EAVA - European Added Value Assessment Unit

MRS - Members' Research Service

TREN - Global Trends Unit

ESPAS - European Strategy and Policy Analysis System

| Publications

European framework on ethical aspects of artificial intelligence, robotics and related technologies | [EAVA Study, September 2020](#)

Civil liability regime for artificial intelligence | [EAVA Study, September 2020](#)

Artificial intelligence: How does it work, why does it matter, and what can we do about it? | [STOA Study, June 2020](#)

The impact of the General Data Protection Regulation (GDPR) on artificial intelligence | [STOA Study, June 2020](#)

Artificial intelligence: From ethics to policy | [STOA Study, June 2020](#)

What if AI could advance the science surrounding dementia? (+Podcast) | [STOA At a glance, June 2020](#)

The ethics of artificial intelligence: Issues and initiatives | [STOA Study, March 2020](#)

What if we could fight coronavirus with artificial intelligence? (+Podcast) | [STOA At a glance, March 2020](#)

What if artificial intelligence made work obsolete? (+Podcast) | [STOA At a glance, March 2020](#)

Is data the new oil? Competition issues in the digital economy (+Podcast) | [MRS Briefing, January 2020](#)

EU guidelines on ethics in artificial intelligence: Context and implementation | [MRS Briefing, September 2019](#)

Economic impacts of artificial intelligence (+Podcast) | [MRS Briefing, July 2019](#)

Cost of non-Europe in robotics and artificial intelligence | [EAVA Study, June 2019](#)

Artificial intelligence, data protection and elections (+Video) | [MRS At a glance, May 2019](#)

A governance framework for algorithmic accountability and transparency | [STOA Study, April 2019](#)

Trends in Artificial Intelligence and Big Data | [TREN, ESPAS Ideas Paper, 2019](#)

Automated tackling of disinformation-Major challenges ahead | [STOA Study, March 2019](#)

Artificial intelligence in transport: Current and future developments,



opportunities and challenges (Video) | [MRS Briefing, March 2019](#)

Artificial Intelligence ante portas: Legal & ethical reflections (+Podcast) | [STOA Briefing, March 2019](#)

How artificial intelligence works | [STOA Briefing, March 2019](#)

Why artificial intelligence matters | [STOA Briefing, March 2019](#)

Regulating disinformation with artificial intelligence | [STOA Study, March 2019](#)

Polarisation and the use of technology in political campaigns and communication | [STOA Study, March 2019](#)

Understanding algorithmic decision-making: Opportunities and challenges | [STOA Study, March 2019](#)

What if algorithms could abide by ethical principles? (+Podcast) | [STOA At a glance, November 2018](#)

Computational propaganda techniques | [MRS Briefing, October 2018](#)

What if technologies had their own ethical standards? (+Podcast) | [STOA At a glance, September 2018](#)

Democracy in the Age of Artificial Intelligence | [TREN Study, July 2018](#)

Should we fear artificial intelligence? | [STOA In-Depth Analysis, March 2018](#)

A common EU approach to liability rules and insurance for connected and autonomous vehicles (+Video) | [EAVA Study, February 2018](#)

Understanding artificial intelligence (+Podcast) | [MRS Briefing, January 2018](#)

Ethical Aspects of Cyber-Physical Systems | [STOA Study, June 2016](#)

| STOA Blog posts

AI in journalism : with power come responsibilities | [September 2020](#)

Mapping the AI ethics initiatives terrain | [July 2020](#)

Artificial intelligence is revolutionising our future: opportunities and challenges | [July 2020](#)

GDPR and AI: making sense of a complex relationship | [July 2020](#)

Artificial intelligence: From ethics to policy | [June 2020](#)

New STOA study on artificial intelligence: How does it work | why does it matter and what can we do about it? | [June 2020](#)

What if AI could advance the science surrounding dementia? | [June 2020](#)

What if we could fight coronavirus with artificial intelligence? (Podcast) | [March 2020](#)

What if artificial intelligence made work obsolete? | [March 2020](#)

Artificial intelligence made in Europe | [February 2020](#)

Deepfakes, shallowfakes and speech synthesis: tackling audiovisual manipulation | [December 2019](#)

#Tekoälyaika - Finland's 1% AI education strategy | [June 2019](#)



- Artificial intelligence | machine learning & automation: what future for journalism? | [June 2019](#)
- AI could boost journalism with smart tools | [June 2019](#)
- Is Algorithmic Transparency And Accountability Necessary And/Or Feasible? | [May 2019](#)
- The challenges of regulating disinformation with artificial intelligence | [May 2019](#)
- Does artificial intelligence threaten human rights? | [April 2019](#)
- The promise and limitations of technological solutions to disinformation | [March 2019](#)
- Is artificial intelligence a human rights issue? | [March 2019](#)
- Towards a democratically upgraded artificial intelligence | [March 2019](#)
- Autonomous cars: will roads be safer if algorithms replace human drivers? | [February 2019](#)
- Debate on “killer robots”: the crucial role of human control | [January 2019](#)
- New collection asks if we should fear artificial intelligence | [April 2018](#)
- How should we manage media in the age of artificial intelligence? | [December 2017](#)
- STOA Annual Lecture 2017: Media in the age of artificial intelligence | [November 2017](#)
- Is it rational to be optimistic about artificial intelligence? | [October 2017](#)
- Will artificial intelligence really improve our lives? | [October 2017](#)



| Events

- STOA Annual lecture | [9 December 2020](#)
- The future of artificial intelligence for Europe | [STOA Workshop, 29 January 2020](#)
- AI and journalism | [ESMH Summer school, 4-7 June 2019](#)
- Virality and influencers in digital communication | [ESMH Workshop, 3 April 2019](#)
- Is artificial intelligence a human rights issue? | [STOA Workshop, 20 March 2019](#)
- Artificial Intelligence for early diagnosis and treatment | [STOA Workshop, 7 February 2019](#)
- Quantum technologies, artificial intelligence, cybersecurity: Catching up with the future | [STOA Annual lecture, 4 December 2018](#)
- How to win Elections: Reflections on the use and misuse of technology in electoral campaigns | [STOA Workshop, 7 November 2018](#)
- Media in the age of artificial intelligence | [STOA Annual Lecture, 21 November 2017](#)
- Should we fear the future? Is it rational to be optimistic about artificial intelligence? | [STOA Workshop, 19 October 2017](#)



| Videos

3 key questions on autonomous vehicles | EPRS, February 2020

Artificial intelligence in Europe | STOA, January 2020

Does artificial intelligence threaten human rights? | STOA, December 2019

Do we need an ethical charter or European agency for AI? | STOA, November 2019



| E-books

Selection of online academic articles and e-books in the EP Library collection:

[Artificial Intelligence and Ethics](#)

[Artificial Intelligence and Law](#)

[Applications of Artificial Intelligence](#)

If you are interested to be informed about any new EP research publications in the area of Artificial Intelligence, you can subscribe to a [thematic e-mail 'alert' on artificial intelligence](#) (on the EPRS intranet, but the hyperlinks will work also outside the EP IT-network).

STOA & C4AI

STOA (Panel for the Future of Science and Technology), an integral part of the European Parliament's structure, is tasked with carrying out expert, independent assessments of the impact of new technologies and identifying long-term, strategic policy options useful to the Parliament's committees in their policy-making role.

The STOA Panel is composed of 27 Members of the European Parliament, including the EP Vice-President responsible for STOA and 26 MEPs appointed by eleven parliamentary committees. With the input of committees and individual Members, the STOA Panel, on the recommendation of its Bureau, decides on projects and other activities in the field of science and technology. Each STOA project is overseen by one or more Panel members.

To intensify its activities in the field of artificial intelligence (AI), STOA has launched its Centre for AI (C4AI). C4AI was established by decision of the STOA Panel on 19 December 2019. Within the context of STOA and based on decisions of the STOA Panel, C4AI produces studies, organises public events and acts as a platform for dialogue and information exchange on AI-relevant topics within the Parliament and beyond. In particular, it provides expertise on the possibilities and limitations of AI and its implications from an ethical, legal, economic and societal perspective. Through these activities, C4AI aims to contribute to the quality and coherence of discussion and policy-making as the EU seeks to coordinate its efforts and influence global AI standard-setting.

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