

Supplement to *Bots and Beasts*, ch. 8: Other AI Principles

Complementing the sorting of the Asilomar principles, here is analysis of 8 prominent proposals for principles of ethical AI. Like the Asilomar principles, most of the sixty-eight principles in the 8 proposals concern benefits and harms, with lesser concern about autonomy and justice.

	Total Principles	Beneficence	Nonmaleficence	Autonomy	Justice
European Commission	15	1, 2, 4, 5, 6, 7, 8, 11, 13, 14, 15	1, 2, 3, 4, 5, 6, 9, 10, 12, 13	1, 4, 5	1, 4, 5, 8, 12
Google AI	11	1, 4, 5, 6, 7	3, 4, 5, 7, 8, 9, 10	4, 5, 7	2, 7, 11
IBM	5	1, 2	1, 3	5	4
IEEE	8	1, 2, 4, 6, 8	5, 6, 7, 8	3	1
Institute for Ethical AI	8	1, 3, 4, 6	1, 3, 5, 7, 8	7	2
Microsoft	6	2, 3, 4	3, 4, 5, 6	2, 5	1
Montreal Declaration	10	1, 4, 9, 10	3, 7, 8, 9, 10	2, 3	5, 6, 7
Robotics	5	2	1, 2, 3, 4, 5	2	
Totals	68	36	42	14	15

Sets of principles for the ethics of artificial intelligence. Some principles fall under more than one of the four basic values.

European Commission:

<https://ec.europa.eu/digital-single-market/en/news/draft-ethics-guidelines-trustworthy-ai>

Uses “trustworthy” to encompass all 4 central values.

Google AI:

<https://ai.google/principles/>

Lists 7 principles and 4 kinds of applications not to be pursued which I have elevated into principles.

IBM Everyday Ethics for Artificial Intelligence:

<https://www.ibm.com/watson/assets/duo/pdf/everydayethics.pdf>

#{Brandeis, 1890 #7031}2 is subjective to a particular group.

IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems:

[https://standards.ieee.org/content/dam/ieee-](https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/ead1e_general_principles.pdf)

[standards/standards/web/documents/other/ead1e_general_principles.pdf](https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/ead1e_general_principles.pdf)

Institute for Ethical AI and Machine Learning

<https://ethical.institute/principles.html>

Microsoft:

<https://www.microsoft.com/en-us/ai/our-approach-to-ai>

Numbering added.

Montreal Declaration on Responsible AI:

<https://www.montrealdeclaration-responsibleai.com/the-declaration>

Robotics Principles:

<https://www.tandfonline.com/doi/pdf/10.1080/09540091.2016.1271400Notes>.