

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-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>