

Literature list

for course at first level

Den artificiella intelligensens filosofi
The Philosophy of Artificial Intelligence

7.5 Higher Education Credits
7.5 ECTS credits

Course code: FIAIF0
Valid from: Spring 2024
Date of approval: 2024-04-03

Literature

- Boden, M. A. (2018). *Artificial intelligence: A very short introduction*. Oxford University Press.
- Bostrom, Nick & Yudkowsky, Elizer, (2014) ‘The Ethics of Artificial Intelligence’, in *The Cambridge Handbook of Artificial Intelligence*, edited by Keith Frankish & William M. Ramsay (Cambridge: Cambridge University Press), pp.316-334
- Burri, Susanne (2018) ‘What is the Moral Problem with Killer Robots?’ in *Who Should Die: The Ethics of Killing in War*, edited by Ryan Jenkins, Michael Robillard & Bradley Jay Strawser (Oxford: Oxford University Press, 2018), pp.163-185
- Colombo, M., & Piccinini, G. (2023). *The Computational Theory of Mind*. Cambridge University Press. Chapter 1, 2 and 5, pp. 1-12 and 30-44.
- Millièrè, R., & Buckner, C. (2024). A Philosophical Introduction to Language Models--Part I: Continuity With Classic Debates. *arXiv preprint arXiv:2401.03910*.
- Minker, Jack (2000) *Logic-Based Artificial Intelligence*, Springer, 2000. Chapter 1, pp 3-33. Online link: https://link.springer.com/chapter/10.1007/978-1-4615-1567-8_1
- Nagel, T. (1987). *What does it all mean?: a very short introduction to philosophy*. Oxford University Press. (Chapter 1, 2 and 4)
- Nyholm, Sven, (2018) ‘The Ethics of Crashes with Self-Driving Cars: A Roadmap I’, *Philosophy Compass* 13(7), 2018
- Polger, Thomas “Functionalism”, *The Internet Encyclopedia of Philosophy*. <https://iep.utm.edu/functionism/>
- Russell Stuart and Norvig Peter (2022), *Artificial Intelligence: A Modern Approach*, 4th Global Edition, 2022. (Part III: Knowledge, reasoning, and planning.)
- Rüz, T., Beisbart, C. (2022). The Importance of Understanding Deep Learning. *Erkenntnis*, , 1-18.

- Sullivan, Emily (2022). Understanding from Machine Learning Models. *British Journal for the Philosophy of Science* 73 (1):109-133.
- Thomason, Richmond (2024) Logic-Based Artificial Intelligence, Stanford Encyclopedia of Philosophy. Online link: <https://plato.stanford.edu/entries/logic-ai/>

****In addition to the above readings students will be expected to watch the following videos:****

Three videos by 3Blue1Brown available on youtube

- But what is a neural network? | Chapter 1, Deep learning,

<https://www.youtube.com/watch?v=aircArvnKk>

- Gradient descent, how neural networks learn | Chapter 2, Deep learning

<https://www.youtube.com/watch?v=IHZwWFHWa-w>

- What is backpropagation really doing? | Chapter 3, Deep learning

<https://www.youtube.com/watch?v=Ilg3gGewQ5U&t=9s>