**Dawson College**

**Integrative Seminar 300-308-DW**

**Research Topic Selection: Artificial Intelligence**

The list below includes good potential topics and resources for your Comprehensive Assessment paper. You do not need to choose from this list, but if you do not, it is a good idea to speak to me to confirm that your topic will work.

Remember that your topic must be related to Artificial Intelligence and that you will have to examine it from the perspectives of three social science disciplines. The list is divided in themes and fields. One way to do it is to select one theme and one field, for instance: The Ethics of AI in Law Enforcement.

Theme: ETHICS

Moodle "pitch" Ethics: computers are now taking on social responsibilities, helping determine who gets credit, who can be released early from prison, who committed a traffic violation, etc. Machine learning is designed in such a manner that often the more precise it is, the less engineers can explain how AI decisions are made. How can we determine the right balance between efficiency and transparency? Can this be made safely? What happens when machines reach super-intelligence, or general-AI? Could this threaten us? Who is responsible for machine biases and mistakes? What about if a killer-robot makes a mistake? If machines reach human levels of intelligence, should they gain rights and moral status?

RESOURCES

* Alexandra Mateescu and Madeleine Clare Elish, AI in Context: The Labor of Integrating New Technologies (New York: Data & Society Research Institute, 2019), <https://datasociety.net/wp-content/uploads/2019/01/DataandSociety_AIinContext.pdf>.
* AI NOW Report. 2018. <https://ainowinstitute.org/AI_Now_2018_Report.pdf>
* Stephens, Roberts. Dawson.AI. <https://www.dawsoncollege.qc.ca/ai/portfolios/minds-machines/>
* Bostrom & Yudkowsky (2011) The Ethics of AI. Cambridge Handbook of AI. <https://www.nickbostrom.com/ethics/artificial-intelligence.pdf>
* Brundage et al. 2018. The Malicious Use of AI Report <https://maliciousaireport.com/>
* Torresen, Jim. “A Review of Future and Ethical Perspectives of Robotics and AI.” Frontiers in Robotics and AI, vol. 4, no. 75, Jan. 2018, doi:10.3389/frobt.2017.00075
* Ryan, Mark. “The Future of Transportation: Ethical, Legal, Social and Economic Impacts of Self-Driving Vehicles in the Year 2025.” Science and Engineering Ethics, vol. 26, Sept. 2019, p. 1185–1208, doi:10.1007/s11948-019-00130-2.
* Rolland, Apolline. “Ethics, Artificial Intelligence and Predictive Policing.” Security Distillery, 23 July 2021, thesecuritydistillery.org/all-articles/ethics-artificial-intelligence-and-predictive-policing.
* Kucera, Roman. “The Truth behind Facebook AI Inventing a New Language.” Towards Data Science, vol. 7, Aug. 2017,
* Lin, Patrick. “Here’s How Tesla Solves A Self-Driving Crash Dilemma.” Forbes, 5 Apr. 2017.
* Goodall, Noah J. “Ethical Decision Making During Automated Vehicle Crashes.” Transportation Research Record, vol. 2424, no. 1, 2014, p. 58–65, doi:10.3141/2424-07
* Haenlein, Michael, and Andreas Kaplan. “A Brief History of Artificial Intelligence: On the Past, Present, and Future of Artificial Intelligence.” California Management Review, vol. 61, no. 4, 2019, p. 5–14, doi:10.1177/0008125619864925.
* Holstein, Tobias. “The Misconception of Ethical Dilemmas in Self-Driving Cars.” Proceedings, vol. 1, no. 3, June 2017, p. 1275–1289, doi:10.3390/IS4SI-2017-04026.