

ACAI 2021

The advanced course on AI on Human Centered AI

Tutorial Outline

Writing Science Fiction as an inspiration for AI research and Ethics dissemination

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OUTLINE

Science and fiction: mutual inspiration

Fostering the confluence of technoscientists and writers/artists

New ethics issues raised by Artificial Intelligence

Introducing technoethics in the curricula

Science fiction narrative engages technology students

Plotting, writing and teaching with “The Vestigial Heart”

Lessons learned and hints for future initiatives

BACKGROUND MATERIALS

Role of Science Fiction

N. Stephenson. Innovation Starvation. **Wired**, October 27, 2011.

<http://www.wired.com/2011/10/stephenson-innovation-starvation>

C. Torras. Science-fiction: A mirror for the future of humankind. **IDEES**, 48: 1-11, 2020.

<https://revistaidees.cat/en/science-fiction-favors-engaging-debate-on-artificial-intelligence-and-ethics/>

Ethics education initiatives in the digital age

E. Burton, J. Goldsmith, N. Mattei. How to teach computer ethics through science fiction.

Communications of the ACM, 61(8), 54-64, 2018. <https://dl.acm.org/doi/pdf/10.1145/3154485>

C. Torras. Assistive robotics: Research challenges and ethics education initiatives. **DILEMATA: International Journal of Applied Ethics**, 30: 63-77, 2019.

<https://www.dilemata.net/revista/index.php/dilemata/article/view/412000291/641>

Teach with Movies. Robot Ethics Using Clips from Robot and Frank, 2012.

<http://teachwithmovies.org/robot-and-frank/>

A novel and associated teaching materials

C. Torras. **The Vestigial Heart. A Novel of the Robot Age**. The MIT Press, 2018.

<https://mitpress.mit.edu/books/vestigial-heart>