

Course Schedule & Requirements

English Version

Date: 11/01

1. Topic : AI and Global Governance
2. Content :

We are going to explore the issues of AI and global governance. In general, global governance can be roughly divided into 4 stages: 1. agenda-setting 2. policy making 3. implementation & enforcement 4. evaluation, monitoring, and adjustment. The goal of AI governance is to devise global norms, policies, and institutions to ensure the beneficial development and use of advanced AI techniques globally. Current important AI governance challenges and research agenda will be addressed for further discussion on the class.

3. Activities & Exercises :

-Reading and Discussion about the Issues of AI and Governance

Allan Dafoe, AI Governance: A Research Agenda, 2018

<https://www.fhi.ox.ac.uk/wp-content/uploads/GovAIAgenda.pdf>

-Peter Cihon, Standards for AI Governance: International Standards to Enable Global Coordination in AI Research & Development, Apr. 2019

<https://www.fhi.ox.ac.uk/wp-content/uploads/Standards -FHI-Technical-Report.pdf>

4. Learning Hours : 8 hours

Date: 11/08

- 1 Topic : AI and Society
- 2 Content :

We are going to investigate the pros and cons of using advanced AI technology in our human society. Various major AI research challenge issues, such as fairness, accountability, transparency, and ethic, will be examined when we use emerging AI techniques for decision-making in our society.

- 3 Activities & Exercises :

Reading and discussion about the issues of using AI techniques in society:

-Artificial Intelligence in Society, OECD, 2019

https://www.oecd-ilibrary.org/science-and-technology/artificial-intelligence-in-society_eedfee77-en

-AI NOW report 2018:

https://ainowinstitute.org/AI_Now_2018_Report.pdf

- 4 Learning Hours : 8 hours

Date: 12/27

1 Topic : National Security and Privacy in AI Era

2 Content :

Current status of national AI strategy development in China and US will be introduced. We point out the surveillance state problems, such as personal privacy and human rights violation, by using the AI advanced techniques through deep learning of facial recognition with social media data analytics on citizens surveillance. The road to digital unfreedom with AI-based surveillance and social media data analytics will be debated in the class with available background papers' reading lists.

3 Activities & Exercises :

Reading and discussion about the issues of national security and privacy in AI era:

- Security and Privacy in Artificial Intelligent & Machine Learning

Medium Part 1-6 <https://towardsdatascience.com/@manish.prabhu>

-Greg Allen and Taniel Chan, Artificial Intelligence and National Security. 2017

<https://www.belfercenter.org/publication/artificial-intelligence-and-national-security>

-Baobao Zhang & Allan Dafoe, Artificial Intelligence: American Attitudes and Trends, Jan. 2019

https://governanceai.github.io/US-Public-Opinion-Report-Jan-2019/us_public_opinion_report_jan_2019.pdf

-Jeffrey Ding, Deciphering China's AI Dream: The Context, Capabilities, and Consequences of China's Strategy to Lead the World in AI, 2018

https://www.fhi.ox.ac.uk/wp-content/uploads/Deciphering_Chinas_AI-Dream.pdf

-Surveillance State of the Union

<http://opentranscripts.org/transcript/surveillance-state-of-the-union/>

-The Road to Digital Unfreedom:

How Artificial Intelligence is Reshaping Repression

Three Painful Truths About Social Media

President Xi's Surveillance State, Jan., 2019.

Journal of Democracy, John Hopkins Univ. Press

<http://muse.jhu.edu/issue/39701>

4 Learning Hours : 8 hours