Discussion Topics

21 April 2022

Agenda

- Introductions and Elect a Spokesperson
- Spend just 5-10 minutes and each person skim through the paper provided.
- Discussion Questions
- Share out

Introductions

- (If you don't know your team members yet) each person:
  - Your name and/or what you like to be called.
  - Share with your group the most important thing to know about you.
- Whole group: choose a spokesperson

Paper

- Spend just 5-10 minutes and each person skim through the paper provided.

Discussion Questions

- Question 1. Benji Maruyama, the speaker and last author of our paper, argues that research is moving slower than one might expect, given the resources that are put into it. He further argues that a path forward from this is 'autonomous experimentation'.
  - In your own words, give a definition for autonomous experimentation. How is it different from other existing or emerging approaches such as high throughput computation?
  - Do you think 'autonomous experimentation' is technically possible? Do you think it would be able to speed up the process of research?
  - What is the relationship between autonomous experimentation and decision making?

- Question 2. Describe a few approaches to automated experimentation. You can find several examples in Table 1 of Maruyama's paper.

- Question 3. **Automating your own graduate school research**. Can you think of ways to apply automated experimentation to your own research? Think about a possible approach and challenges you might encounter.

Share Out

- The spokesperson for each group will share with the rest of the class one interesting thing that came up during your discussion.