

This workshop will primarily focus on the concepts and principles. Demonstration of the implementation of the programs will be done by the workshop instructor with real-time explanations. There is no much time left for trying out the programs by yourself. And because the workshop is conducted in zoom, normally you can't implement those program while watching the zoom. So, it is not recommended to try the implementations during the workshops.

The workshop will be recorded, and video link will be sent afterwards. So you can follow the video to conduct all the implementations after the workshop.

To implement all the programs covered in the workshop, the following components are needed:

- 1) Matlab, preferably version newer than 2019. Users from HKU can download matlab from the following link:
<https://www.its.hku.hk/services/personal/software/matlab-simulink>
- 2) Matlab toolbox. There are several Matlab toolboxes you would need for running the examples in the workshop. So, when you are installing Matlab, remember to tick those toolboxes. If you forget that, you can always install them afterwards. The toolboxes are:
 - Statistics and Machine Learning Toolbox;
 - Curve Fitting Toolbox;
 - Signal Processing Toolbox;
 - Deep Learning Toolbox;
 - Image Processing Toolbox;
- 3) To implement the example of AI in the workshop, you need to download the neural network 'alexnet'. Simply enter 'alexnet' in the command window and press 'enter'. If there is no alexnet found in your Matlab environment it will prompt you to download it. Just follow the link.
- 4) To run all the examples in the workshop, download all the materials in the Github page. Whenever there is any script that contains file path information, always change them to your actual path in your computer.