

**DEPARTMENT OF MECHANICAL ENGINEERING****SEMINAR****Online**

**Title:** UAV perception of dynamic environment and motion planning

**Speaker:** Mr. Minghao Lu (PhD candidate)  
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**Date:** 6 May, 2022 (Friday)

**Time:** 10:00 a.m. (Hong Kong Time)

**Zoom meeting:** 1) Link to join the meeting:

<https://hku.zoom.us/j/6730710507>

2) Meeting ID: 673 071 0507

3) Password: 105129

**Abstract:**

With robotics developing from its birth to the present, an intention always stands unchanged: people hope that robots can help humans undertake some heavy and dangerous work, such as exploring dangerous and unknown environments. Unmanned aerial vehicles (UAVs), especially micro UAVs, have become the best choice to explore the unknown environment because of their motion flexibility in space. After the development of aerial autonomy technology in recent decades, autonomous flight of UAVs in static unknown environments is no longer a problem. However, those fast-moving objects in the environment still pose severe threats to UAVs, and it is also a grand challenge in the applications. In this seminar, we have a discussion and outlook for the possible methodology of UAV to explore in a challenging environment.

**ALL INTERESTED ARE WELCOME**

For further information, please contact Dr. P. Lu at 3910 2548.

**Research area: Robotics and Control**