

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

Title: Application of Soft Robot in the Minimally Invasive Repair of Mitral Valve

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Date: 28 April, 2022 (Thursday)

Time: 3:00 p.m. (Beijing Time)

Zoom meeting: 1) Link to join the meeting:

<https://hku.zoom.us/j/94169458285?pwd=bEldU09nNHBYWkIGSONwL1NXWTVtQT09>

2) Meeting ID: 941 6945 8285

3) Password: 708854

Abstract:

The Mitral valve is one of the valves in the heart that controls the one-way flow of blood. The risk of mitral valve damage increases with age. ACT placement is an effective method for minimally invasive treatment of the mitral valve. The soft robot is a new type of robot made of soft materials which can adapt to various unstructured environments and help improve the safety of human-machine interaction. Through structural optimization, the equipment to place ACT can be merged into one kit, and the soft robot can be wrapped in the outer layer to achieve equipment integration and improve safety at the same time.

ALL INTERESTED ARE WELCOME

For further information, please contact Dr. Y.H. Chen at 3917 7910.

Research area: Additive Manufacturing & Design