

2020/21 LSGI STEM Talk Series

Mapping the Moon and Mars In 3D



Date: 9 July 2021 (Friday)

Time: 3:00pm - 3:45pm

Venue: Online (*the link will be shared one week before the lecture*)

Language: Cantonese with English materials

Target audience: Secondary 2 - 6 school students

Speaker: **Dr Morgan Liu**

Facilitator: **Ir Dr Wallace Lai**

*Department of Land Surveying and Geo-Informatics
The Hong Kong Polytechnic University*

Introduction:

Extraterrestrial bodies like the Moon and Mars are popular targets for space explorations. The 3D topography of these planetary bodies provides vital insights into their geological history and supports optimal mission design (e.g., deciding landing sites). Because of the long distances and harsh environments, these alien worlds are usually mapped by processing the remote sensing data acquired by satellites and rovers. This talk briefly introduces the technologies we used to map Mars in 3D to support the successful landing of China's first Mars mission Tianwen-1. The technologies were also used in China's other space missions, such as Chang' E-4 and Chang' E-5, and will likely be applied in future space missions.

To register, please click [here](#) for the details

Deadline for registration: 5 July 2021 (Mon)

For enquiries, please contact Ms Anna Choi at 3400 8158 or anna.choi@polyu.edu.hk

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