



**It is with great pleasure that Symposium on Surface Modelling has been listed in Forums, Symposium & Special Sessions of the [33rd International Geographical Congress](#) of the IGU to be held in Beijing, China on August 21-25, 2016.**

## **Symposium on Surface Modelling**

The Earth's as well as other planetary surfaces are uniquely defined by both extrinsic and intrinsic invariants. Ground observation is a source of intrinsic invariants and satellite observation is an important source of extrinsic invariants. Ground observations are able to accurately estimate ecosystem services and driving forces of ecosystem changes at sample plots, but these sample plots are too sparse to support many forms of spatial simulation with the required accuracy. Satellite remote-sensing can supply spatially continuous information about the surface, which is impossible from ground-based investigations, but their description incorporates considerable uncertainty. In fact, the surface is controlled by a combination of global and local factors, which cannot be understood without accounting for both the local and global components. The various approaches to surface modelling can be categorized five ways: 1) spatial interpolation; 2) upscaling, 3) downscaling, 4) data fusion; and 5) data assimilation. This symposium will present and discuss the advantages and disadvantages of various methods for surface modelling as well as their application to the simulation of the Earth's and other planetary surfaces. Selected papers will be published in a special issue of the international journal, *Geomorphology*.

Deadline for submitting abstracts for papers and posters: 31 March, 2016  
Notification of the results of the abstract review: **30 April, 2016**

Organized by

**Tian Xiang YUE**

**Email: [yue@lreis.ac.cn](mailto:yue@lreis.ac.cn)**

**John P. WILSON Email:**

**[jpwilson@dornsife.usc.edu](mailto:jpwilson@dornsife.usc.edu)**

**Ruzickova KATERINA**

**Email: [katerina.ruzickova@vsb.cz](mailto:katerina.ruzickova@vsb.cz)**