A New Book "Planetary Remote Sensing and Mapping"

Published by Taylor & Francis

A new book "Planetary Remote Sensing and Mapping" has been published by Taylor & Francis Group/CRC Press. Edited by Dr Bo Wu (PolyU LSGI), Kaichang Di (Chinese Academy of Sciences), Jürgen Oberst (German Aerospace Center), and Irina Karachevtseva (Moscow State University of Geodesy and Cartography), this book offers new insights and timely updates on the research and developments in planetary remote sensing and mapping.

The early 21st century marks a new era in space exploration. The National Aeronautics and Space Administration (NASA) of the United States, The European Space Agency (ESA), as well as space agencies of Japan, China, India, and other countries have sent their probes to the Moon, Mars, and other planets in the solar system. This book introduces original research and new developments in the areas of planetary remote sensing, photogrammetry, mapping, GIS, and planetary science resulted from the recent space exploration missions.

The book includes the following sections:

- Reference systems of planetary bodies
- Planetary exploration missions and sensors
- Geometric information extraction from planetary remote sensing data
- Feature information extraction from planetary remote sensing data
- Planetary remote sensing data fusion
- Planetary data management and presentation

The book serves scientists and professionals working in the planetary remote sensing and mapping areas, as well as for planetary probe designers, engineers, and planetary geologists and geophysicists. It also provides useful reading material for university teachers and students in the broader areas of remote sensing, photogrammetry, cartography, GIS, and geodesy etc.