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Data science in planetary science

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Remote sensing is the major technique to study planetary environment in order to decipher the structure and evolution of solar system bodies. For a decade, spacecrafts have acquired high-resolution spectra, high-resolution images, hyperspectral images, and multi-angular hyperspectral images. The treatment of raw data to produce high level science results but also the visualization of the large amount of data require innovative tools. Here I review some aspects of data science projects in planetary science, focusing on multi-angular hyperspectral imaging (~500 wavelength), digital terrain model using stereoscopic techniques on high resolution images (~0.5m/pixel), and data visualization.

Orateur: SCHMIDT, Frédéric (GEOPS / UPSud)

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