Cohen J. P., Lo H. Z., Lu T., Ding W.  
**Crater Detection via Convolutional Neural Networks** [#1143]

We present a state of the art automatic crater detection method using advanced machine learning to deal with the large amount of satellite imagery collected.

Smith C. L., Moores J. E.  
**Geometric Shielding of Surface Rocks on Mars** [#1644]

This abstract details the models and methods used to examine whether geometric shielding could contribute to the orientation bias of surface cracks on Mars.

Mayer D. P., Kite E. S.  
**An Integrated Workflow for Producing Digital Terrain Models of Mars from CTX and HiRISE Stereo Data Using the NASA Ames Stereo Pipeline** [#1241]

CTX, HiRISE / Make DEMs step-by-step / ASP, we show you how.

Tao Y., Sidiropoulos P., Muller J.-P.  
**Automated DTM Generation and Super-Resolution Restoration from NASA MRO Cameras and in Future from TGO16 CASSIS** [#2074]

An automated MRO camera DTM production pipeline for planetary mapping and separate pipeline for repeat imaging based super-resolution restoration is introduced.

Allender E. J., Stepinski T. F.  
**Automatic, Exploratory Mineralogical Mapping of CRISM Imagery Containing Gully Features** [#1518]

We use our automated, exploratory, mineralogical mapping pipeline to preliminarily explore 100 CRISM images containing gully features for deposits of interest.

**True- and False-Color HRSC+OMEGA Image Mosaics of Mars** [#1031]

We use a new approach for mosaicking RGB/NGB color HRSC images, and present both true-color and false-color versions of the MC11E map-tile around Mawrth Vallis.

Sidiropoulos P., Muller J.-P.  
**Large-Scale Co-Registration of Mars High-Resolution NASA Images to HRSC: A Case-Study of the MC11-E Quadrangle** [#2034]

In this abstract we present recent work that exploits HRSC MC11-E mosaic as a baseline to co-register all high-resolution NASA images.

Walter S. H. G., Li J.-Y., Kneissl T., van Gasselt S.  
**Photometric Hapke Correction for Global-Scale Mosaicking of HRSC Image Data** [#1633]

We present Hapke parameter modeling for HRSC data for the purpose of constructing homogeneous image mosaics. The result is compared to a Lambertian correction.