AMMOS 3D Surface Reconstruction
Software toolkit for terrain generation and analysis.

What is the problem?
Surface operation and science analysis of in-situ acquired data products requires 3D Surface Reconstruction of terrain environment.

What is the solution?
A software toolkit that generates 3D Terrain products from stereo and multi-view imaging products.

Who are our customers?
- Mission planners for traverse planning and robotic arm operation
- Scientists analyzing geomorphology, photometry etc.
- Public Outreach

What capabilities are on offer?
- Polygonal mesh generation using Point Cloud (XYZ images) data.
- Texture Mapping using Camera Models
- DEM product generation with metadata to co-register with polygonal mesh.
- Terrain generation from orbital DEMs in matching coordinate frame.
- Multiple output formats: Open Inventor and Wavefront .OBJ

What is included?
- C++ libraries and executables
- Command line interface
- Process automation scripts

For more information and access to the AMMOS catalog – https://ammos.nasa.gov

Contacts:
Zsarina Benecken – Zsarina.M.Bulchand@jpl.caltech.edu
Glen Elliott – Glen.Elliott@jpl.caltech.edu