

## DEVELOPMENT OF METHODS FOR TRUE 3D-PRESENTATION OF MARS SURFACE

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### **Background**

The contribution of the Dresden University of Technology to the scientific programme of the Mars Express Mission (MEX) includes the development and application of methods for the generation of true three-dimensional visualisations based on HRSC data. Potential visualisation approaches contain digital auto-stereoscopic displays as well as 3D hardcopy methods. Hologrammes, parallax displays and lenticular sheets are well-known in this context.

There are different problems to solve. The transformation of remotely sensed data into a form, which permits a true three-dimensional modelling, and their final output, development and test of new approaches supported by special imaging directions of HRSC are some of these problems. The joint work with the Photogrammetry-Cartography Working Group (PCWG) of the scientific MEX Programme has the goal to optimise the image data processing for three-