

16th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE (D4)
Innovative Concepts and Technologies (1)

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3-D IMAGING SYSTEMS AND SPACE MISSIONS IN THE 21ST CENTURY

Abstract

State of the art analysis and the classification of the modern 3-D imaging systems are given. Perspectives of the future developments of 3-D imaging in the 21st century are discussed. Prospects of 3-D imaging in the planets, in the moon and small space objects are regarded. Exclusive results on successful processing of extremely weak optical signals - in a way comparable in their low level with the signals that were sent from the Voyager leaving the solar system - would be presented. The principal possibility of rapid collecting big amounts of 3-D data in any arbitrary remote point - and on arbitrary object within the solar system will be demonstrated.