

MACHINE COMPREHENSION AS A CONTROL AND PLANNING TOOL

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A B S T R A C T

Conceptual Dependency (CD) theory has been progressively extended from the early theory that represented world knowledge as actions and states to include structures such as goals, planning and scripts. Demonstrations of CD theory have been mainly in the area of language comprehension. A new application of this theory is under development at JPL. This application extends the theory from the recognition and indexing of CD knowledge structures to using these structures to perform man-machine interactions with the goal of spacecraft mission planning and operations. Conceptual Dependency and the implementation of a program to be used as the basis for spacecraft mission planning and operations is discussed.