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AN INTERDISCIPLINARY APPROACH TO DEVELOPING FUTURISTIC ADVANCED SPACE
CONCEPTS

Abstract

Developing futuristic advanced space concepts are the key to transforming our space fiction technologies into reality, applicable to real space missions of the far future. Several space agencies have defined research departments dedicated to building such advanced space concepts. When taken an interdisciplinary approach, these advanced space concepts are non-traditional in nature. This paper discusses futuristic space concepts developed at the intersection of biomimetics, astrophysics, and architecture to propose a non-traditionally designed robot capable of lunar space exploration in the timeline of 20 to 30 years ahead into the future.