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Symposium	2 SYMPOSIUM ON SPACE DEVELOPMENT
Theme	2.2 Enabling Civilian Space Development: technologies, financing, funding
Abstract Title	Application of composites in space robotics
Abstract Code	SRIC3-SDE-2.2.01-001

Abstract

Without the basic needs of water and food, robots are considered the best way to fulfil our dreams to explore the skies above us. Robots are being used in a wide variety of situations ranging from assembly line jobs to exploring the volcanoes, from space exploration to assisting in operating rooms, it is the future of humanity.

On the other hand, composites show a promising future in the field of material sciences. Due to its higher strength-to-weight ratios, stiffness-to-weight ratios, durability and other characteristics make it a better option over metals and its alloys. Due to the advantage of modifying the properties of the composite easily to suit our needs, there is a wide scope of applications in real life.

Research on the application of composites in various fields of robotics is well documented in around 20,000 research papers. However, a review summarizing the same does not exist.

This paper would give the reader a good overall picture on composites, fabrication methods, and the application of composites in space robotics along with the future scope for development.