

IAF SYMPOSIUM ON COMMERCIAL SPACEFLIGHT SAFETY ISSUES (D6)
Commercial Spaceflight Safety and Emerging Issues (1)

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HUMAN SPACEFLIGHT RISKS AND ISSUES

Abstract

Human spaceflight presents new challenges for traditional approaches to risk assessment. From the beginning itself, human spaceflight has been recognized as a dangerous activity. Consequently, U.S. laws and regulations have grown in tandem with space launch activities and operations to protect public health and safety. Opening access to space to the public, certainly raises some novel concerns for increased risk assessment, safety, and management among commercial entities. This paper also highlights the need for evaluating and clarifying social perspectives on issues of risks and issues, safety, and standardization. It offers a multidisciplinary analysis in law, business and ethics to support responsible decision-making, risk assessment for commercial spaceflight activities i.e., PRA (Probabilistic Risk Assessment). One can also get to know what is PRA, steps involved in the PRA Technique and how we can use PRA to mitigate/reduce the risk of human spaceflight.