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Infusing Statistical Engineering at NASA

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The discipline of statistical engineering has gained recognition within NASA by spurring innovation and efficiency, and it has demonstrated significant impact. Aerospace research and development benefits from an application-focused statistical engineering perspective to accelerate learning, maximize knowledge, ensure strategic resource investment, and inform data-driven decisions. In practice, a statistical engineering approach features immersive collaboration and teaming with non-statistical disciplines to develop solution strategies that integrate statistical methods with subject-matter expertise to meet challenging research objectives. This presentation provides an overview of infusing statistical engineering at NASA and illustrates its practice through pioneering case studies in aeronautics, space exploration, and atmospheric science.

Keywords

Statistical engineering, statistical collaboration, statistical innovation

Special/invited session

Keynote session

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