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Jiaxing · China

SHUJIAN SUN

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Lecture:

Research and Prospect of Lunar Surface Agile Operation Technology

Dr. Shujian Sun is a ZJU100 Young Professor and doctoral supervisor at Zhejiang University. His research focuses on micro- and nano-spacecraft systems, satellite formation flying, orbit control technologies, and systems engineering. With a strong foundation in both academic research and practical space mission development, Dr. Sun has played a key role in advancing China's capabilities in space technology.

He is an active member of the Technical Committee of the International Federation of Automatic Control (IFAC) and a Senior Member of the Chinese Society of Astronautics (CSA), reflecting his recognized contributions to the global aerospace community.

Over the course of his career, Dr. Sun has contributed to the development of 26 spacecraft missions, serving in various leadership roles. He has been officially certified and entrusted as the primary director responsible for overall spacecraft development and subsystem integration. His work spans mission architecture, guidance and control systems, and the implementation of formation flight technologies.

Currently, Dr. Sun serves as Co-Principal Investigator and Chief Designer of the Smart Lunar Exploration Robot for the upcoming Chang'e-8 mission. This high-profile project aims to demonstrate innovative robotic exploration capabilities on the Moon, contributing to China's long-term lunar exploration roadmap and combines deep technical expertise with visionary leadership in spacecraft systems engineering, positioning him as a driving force in both the academic and applied sectors of space research.