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# YONGHE ZHANG

Director of the Key Laboratory of Satellite Digitalization Technology

Director of the Institute of Scientific Satellites at the Shanghai Microsatellite Engineering Center of the Chinese Academy of Sciences Satellite Chief Engineer



## Lecture:

### Space science microsatellites and open cooperation models

From 2013 to 2016, Dr. Zhang Yonghe served as Deputy Director of the Overall Technology Research Office and Deputy Chief Engineer of the Global Carbon Dioxide Monitoring Satellite at the Chinese Academy of Sciences' Innovation Academy for Microsatellites. He currently holds several key leadership roles within the institute, including Vice President, Director of the Key Laboratory for Satellite Digitalization Technology, and Head of International Cooperation. He also serves as Chief Designer of the "Tianguan" Satellite and Commander-in-Chief of the China-France Astronomical Satellite mission.

Dr. Zhang's research focuses primarily on spacecraft navigation, guidance and control, time-frequency multibody dynamics, and related disciplines. He has made notable contributions in areas such as spacecraft system design and simulation, drag-free control for gravitational wave detection, and the development of deep-space micro and nanosatellites.

He has led numerous high-level research and innovation projects, including national key R&D programs under China's Ministry of Science and Technology, strategic scientific modeling initiatives at the Chinese Academy of Sciences (CAS), and major CAS deployment plans. His work has helped shape the direction of cutting-edge space technology research in China.

Dr. Zhang's contributions have been widely recognized. He is the recipient of the First Prize of the Shanghai Science and Technology Progress Award, the Outstanding Achievement Award of the Chinese Academy of Sciences, and was honored as part of the CAS Annual Team. He was also selected as a leading figure under the prestigious Shanghai Oriental Talent Program.

Over the past five years, Dr. Zhang has published a monograph and 26 peer-reviewed articles indexed by SCI, further reinforcing his reputation as a thought leader in aerospace engineering and space systems innovation.