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Space Laser Communication and Networking Technology

Guest Editor:

Prof. Dr. Zhi Liu
National and Local Joint Engineering Research Center of Space Optoelectronics Technology, Changchun University of Science and Technology, Changchun 130022, China

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Message from the Guest Editor

This topic will focus on the networking mechanism of many-to-many simultaneous laser communication optical routing, modeling and simulation of multi-hop laser communication links, multi-link simultaneous bidirectional transmission and reception between different nodes in dynamic networks, optical routing technology, all-optical switching and wavelength conversion technology of the communication network's main node and efficient coupling technology of space beam to optical fiber, etc.

This research topic will also focus on modeling the parameters of incoherent optical signals in high-speed laser communication systems. Specifically, under the pneumatic platform and complex channel, this topic will focus on study the transmission characteristics and adaptive correction techniques of laser beams with different initial parameters (coherence, polarization state, phase characteristics, beam divergence angle, etc.).