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Introduction

Humankind never gives up their efforts in exploring, developing, and utilizing space. Research and practice have been carried out by generation after generation. Getting rid of the constraints of Earth, humans can observe the Earth from space and understand it from the view of space information. The combination and penetration of modern space technology and information science and technology create new space information science and technology.

With the continuous progress of global space technology and the coming era of space economy, space information technology develops quickly with various new theories and techniques. Space information technology, based on the core technologies of remote sensing, geographical information system (GIS), and global navigation satellite system and satellite communication, is the most important way for information transmission and quick acquisition of the dynamic Earth status of large areas and position information.

Based on the satellite Earth observation, people begin to observe the Earth continuously. Through the information processing which fast reappears and objectively reflects the Earth surface status, phenomena, process, spatial distribution and position. By realizing the global communication with satellite in different ways, space information technology has rendered service to every aspect of national economy construction and social development. Space information technology has become one of the three pioneer scientific areas of the world, in parallel with nanotechnology and biological technology.

Currently, space information technology is quickly applied to the traditional industries. It plays an increasingly important role in the information system reformation in the field of agriculture, urban and regional planning management, transportation, business, and traditional manufacturing, as well as in national macro planning, management, decision-making and social services. The space information high-tech industry has become the pioneer and important part of the information industry. With the rapid development and mutual combination of space technology and its related advanced technologies, space information technology is sure to evolve into a new focus in the future.

Space information technology is highly comprehensive and synthetic, which requires the close collaboration among the institutions of payload development, satellite manufacture and launch, satellite data receiving and processing, and application. The China Aerospace Science and Technology Corporation, as the backbone of China's space technology research, is dedicated to launch vehicles, satellite and spin-off, all of which have close relationship with space information technology. This technology covers all the phases of space information acquisition, transmission, processing and application. In order to

enhance satellite application, satellite ground operation service, information technology and other business, the Satellite Application Academy has been established this year, whose aim is to utilize the research outcomes of space technology for sustainable development of national economy and the society, and to promote the research and application of space information technology in China.

The China Aerospace Science and Technology Corporation will always welcome all the experts and friends. We expect your visit to CASC for information exchange and cooperation. I believe all our friends at this conference will make joint efforts with us to contribute to the development of space information technology.

Xingrui Ma