BeiDou Navigation Satellite System (BDS) is China’s global navigation satellite system which has been developed independently. BDS is similar in principle to global positioning system (GPS) and compatible with other global satellite navigation systems (GNSS) worldwide. The BDS will provide highly reliable and precise positioning, navigation and timing (PNT) services as well as short-message communication for all users under all-weather, all-time, and worldwide conditions.

China Satellite Navigation Conference (CSNC) is an open platform for academic exchanges in the field of satellite navigation. It aims to encourage technological innovation, accelerate GNSS engineering, and boost the development of the satellite navigation industry in China and in the world.

The 7th China Satellite Navigation Conference (CSNC2016) is held during May 18–20, 2016, Changsha, China. The theme of CSNC2016 is Smart Sensing, Smart Perception, including technical seminars, academic exchanges, forums, exhibitions, and lectures. The main topics are as follows:

S1 BDS/GNSS Application Technology
S2 Navigation and Location-Based Services
S3 Satellite Navigation Signals
S4 Satellite Orbit and Clock Offset Determination
S5 BDS/GNSS Precise Positioning Technology
S6 Atomic Clock and Time-frequency Technology
S7 BDS/GNSS Augmentation Systems and Technology
S8 BDS/GNSS Test and Assessment Technology
S9 BDS/GNSS User Terminal Technology
S10 Multi-sensor Fusion Navigation
S11 PNT System and Emerging Navigation Technology
S12 Standardization, Intellectual Properties, Policies, and Regulations

The proceedings (Lecture Notes in Electrical Engineering) have 176 papers in ten topics of the conference, which were selected through a strict peer-review process from 440 papers presented at CSNC2016. In addition, another 193 papers
were selected as the electronic proceedings of CSNC2016, which are also indexed by “China Proceedings of Conferences Full-text Database (CPCD)” of CNKI and Wan Fang Data.

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