

Preface

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 8th China Satellite Navigation Conference (CSNC 2017) is held during May 23–25, 2017, Shanghai, China. The theme of CSNC2017 is Positioning, Connecting All, including technical seminars, academic exchanges, forums, exhibitions and lectures. The main topics are as follows:

Conference Topics

- S01 Satellite Navigation Technology
- S02 Navigation and Location Service
- S03 Satellite Navigation Signals and Signal Processing
- S04 Satellite Orbit and Satellite Clock Error
- S05 Precise Positioning Technology
- S06 Atomic Clock and Time-frequency Technology
- S07 Satellite Navigation Augmentation Technology
- S08 Test and Assessment Technology
- S09 User Terminal Technology
- S10 Multi-source Fusion Navigation Technology
- S11 PNT New Concept, New Methods and New Technology
- S12 Policies and Regulations, Standards and Intellectual Properties

The proceedings (Lecture Notes in Electrical Engineering) have 188 papers in twelve topics of the conference, which were selected through a strict peer-review process from 599 papers presented at CSNC2017. In addition, another 272 papers were selected as the electronic proceedings of CSNC2017, which are also indexed by “China Proceedings of Conferences Full-text Database (CPCD)” of CNKI and Wan Fang Data.

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