

# Preface

BeiDou Navigation Satellite System (BDS) is China's global navigation satellite system which has been developed independently. BDS is similar in principle to the 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 6th China Satellite Navigation Conference (CSNC 2015) was held during May 13–15, 2015, Xian, China. The theme of CSNC2015 is Opening-up, Connectivity, Win-win, which covers a wide range of activities, including technical seminars, academic exchanges, forums, exhibitions and lectures. The main topics are as follows:

1. BDS/GNSS Navigation Applications
2. Satellite Navigation Signal System, Compatibility and Interoperability
3. Precise Orbit Determination and Positioning
4. Atomic Clock Technique and Time-Frequency System
5. Satellite Navigation Augmentation and Integrity Monitoring
6. BDS/GNSS Test and Assessment Technology
7. BDS/GNSS User Terminal Technology
8. Satellite Navigation Models and Methods
9. PNT System and New Technologies of Navigation
10. Policies and Regulations, Standard and Intellectual Property

The proceedings (Lecture Notes in Electrical Engineering) have 197 papers in ten topics of the conference, which were selected through a strict peer-review process from 513 papers presented at CSNC2015. In addition, another 251 papers were selected as the electronic proceedings of CSNC2015, which are also indexed

by “China Proceedings of Conferences Full-text Database (CPCD)” of CNKI and Wan Fang Data.

We thank the contribution of each author and extend our gratitude to the 215 referees and 49 session chairs who are listed as members of the editorial board. The assistance of the organizing committees of CNSC2015 and the Springer editorial office is highly appreciated.

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Chair of CSNC2015



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