

# Preface

China's BDS Navigation Satellite System (BDS) has been independently developed, which is similar in principle to global positioning system (GPS) and compatible with other global satellite navigation systems (GNSS). 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 5th China Satellite Navigation Conference (CSNC 2014) is held on May 21–23, 2014, Nanjing, China. The theme of CSNC 2014 is BDS Application—Innovation, Integration and Sharing, which covers a wide range of activities, including technical seminars, academic exchange, forum, exhibition, lectures, as well as ION panel. The main topics are as:

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. Integrated Navigation and New Methods

The proceedings have 171 papers in nine topics of the conference, which were selected through a strict peer-review process from 479 papers presented at CSNC 2014.

We thank the contribution of each author and extend our gratitude to 165 referees and 36 session chairmen who are listed as members of an editorial board. The assistance of CNSC 2014's organizing committees and the Springer editorial office is highly appreciated.

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