



全球华人定位导航协会
International Association of Chinese Professionals
in Global Positioning Systems

CPGPS 2010 Technical Forum On Satellite Navigation and Positioning

Navigation and Location Services
---- Emerging Industry and International Exchanges

The CPGPS 2010 Technical Forum on Satellite Navigation and Positioning will be held on August 18-20, 2010, in Shanghai, China. The theme of the conference is: Navigation and Location Services ---- Emerging Industry and International Exchanges. The Forum is jointly sponsored by CPGPS (International Association of Chinese Professionals in Global Positioning Systems), the Chinese National Remote Sensing Center, a department of the Chinese Ministry of Science and Technology, Shanghai Science and Technology Commission, Wuhan University National Engineering Research Center for Satellite Positioning Systems, the Institute of Navigation, and the International Association of Geodesy.

The Technical Forum aims to provide a platform for scientists and engineers in satellite navigation within China and in the international community and satellite navigation industries for exchanging ideas concerning new technologies, development trends, and practical applications. While it is critical for researchers and developers inside China to learn about the current GNSS international developments, overseas scholars and industries are also eager to gain insights into the state of China's current research and development in the field. We hope that the Forum will augment the much needed networking and interactions among the various entities. Furthermore, it will contribute to the development of a roadmap for the future technical advancement and application of China's satellite navigation system.

In recent years, CPGPS held several annual technical forums in Guangzhou, Wuhan, and Beijing. These forums attracted thousands of domestic and overseas experts, scholars, and industrial participants and gained wide support and recognition. Papers presented at the CPGPS2009 Forum were published in Proceedings of CPGPS2009' (ISTP). Other forum publications included two special issues of Wuhan University Journal- Geomatics and Information Science' (EI) (2008, 2009).

Internationally recognized scholars and industry leaders will be invited as guest speakers to give keynote presentations during the Forum. All papers presented will be published in a conference proceeding. Selected outstanding conference papers will be published in domestic journals and may be recommended for publication (in English) in well-recognized international journals.

The Forum calls for papers from specialists, scholars, students, and industrial participants in the field. The major topics to be presented in the Forum are listed in, but not limited to, the following titles:

Topic Area 1: COMPASS/GPS/GLONASS/GALILEO Satellite Navigation Systems

1. COMPASS Satellite Navigation System and Applications
2. Coordinate Frame and Time Reference of Satellite Navigation Systems
3. Signal Structure of Satellite Navigation Systems
4. Information Processing Methods in Satellite Navigation Systems
5. GNSS Modernization
6. GALILEO System and Test Analysis
7. Compatibility and Interoperability of Multi-Mode Satellite Navigation Signals

Topic Area 2: Satellite Navigation Augmentation Systems and Applications

1. Space-Based and Ground-Based Augmentation Systems Design and Testing
2. Wide-Area Real-Time Precise Navigation and Positioning Systems and Techniques
3. Network RTK and CORS System Applications
4. New Product Integration and Applications

Topic Area 3: GNSS Algorithms

1. GNSS Data Parameter Estimation and Quality Control
2. GNSS Error Analysis, Modeling, and Model Improvements
3. Ambiguity Resolution Algorithms
4. Precise Point Positioning Algorithms
5. GNSS Reflection Signal Processing and Applications

Topic Area 4: GNSS Atmospheric Sciences

1. GNSS Atmospheric Inversion Algorithms
2. GNSS Atmospheric Occultation Studies
3. GNSS Ionosphere Monitoring and Analysis
4. Atmospheric Delay Models
5. GNSS Meteorological Applications

Topic Area 5: Multi-Sensor Integration and Emerging Navigation and Location Technologies

1. GNSS/INS Integrated Navigation Techniques
2. Attitude Estimation
3. POS Systems and Applications
4. Airborne/Vehicle Navigation Systems Technologies
5. Geomagnetic Navigation Technologies
6. Bio-navigation Technologies
7. Quantum Navigation Technologies

Topic Area 6: GNSS Applications in Engineering Measurements, Geodetic Surveying, and Geodynamics

1. Geodetic Reference Systems and Frames
2. Satellite Gravity Measurements
3. Precise Engineering Measurements
4. GNSS in Control Engineering and Construction Machineries
5. Deformation Monitoring
6. Vertical Datum Connection and Precise Geoid
7. Seismic Monitoring

Topic Area 7: GNSS/INSAR Fusion

1. INSAR Data Processing Techniques
2. GNSS/INSAR Joint Deformation Monitoring Techniques

Topic Area 8: GNSS Receiver Technologies

1. GNSS RF Chip Design Technologies
2. GNSS Baseband Design and Digital Signal Processing Techniques
3. Receiver Embedded Baseband Control and Navigation Positioning Algorithms
4. Receiver Performance Testing
5. Software Receiver Techniques
6. High-Performance Multi-Mode Receiver Techniques

Topic Area 9: Location Services

1. Mobile Communication and GNSS Fusion
2. Navigation and Location Services Software Systems
3. Indoor Positioning
4. Navigation and Positioning and the Internet Technology

PAPER SUBMISSIONS:

The Forum welcomes submission of original research papers in English or in Chinese. The paper submission follows a two-stage process: an abstract between 300 and 800 words summarizing your work should be submitted first, followed by the full paper submission. Both abstract and full paper should be prepared in Microsoft Word (PC version). Please submit your electronic documents via E-mail to one of the two following correspondents:

Jin Hong: jhong811@126.com
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The Deadline for abstract submission is: June 1, 2010

The Deadline for paper submission is: July 15, 2010

Abstract Submission Details:

- Must contain the title of the paper, the author's names (family name comes first). The name of the presenter must be underlined.
- Must include the corresponding author contact information: professional affiliation, work address, telephone, fax, and E-mail address.
- The paper has not been published in another source.
- The paper can be submitted in either Chinese or English.
- Must be between 300 and 500 words.

Full Paper Submission Details:

- The paper must follow the format described by ISTP (see the attached document).
- Paper publication classification:

Papers submitted in English should follow the ISTP format and may be recommended for publication in relevant international periodicals.

Papers submitted in Chinese should conform to both ISTP and EI source journals Format.

Paper evaluations will be performed by a selected group of experts in the field. Accepted papers will be published in domestic journals for EI and ISTP proceedings. Exceptional quality papers written in English will be recommended to international periodicals in the GNSS field.

CONFERENCE TIME AND VENUE

This forum will take place on August 18-20, 2010, in Shanghai (the specific venue will be announced soon).

CONTACT INFORMATION

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IMPORTANT DATES

Abstract Due Date	June 1, 2010
Abstract Notification Date	July 1, 2010
Full Paper Due Date	July 15, 2010
Conference Dates	August 18-20, 2010