SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM (B2)
Space Communications and Navigation Young Professionals Virtual Forum (8-YPVF.3)

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CURRENT AND FUTURE OF INTERNATIONAL COOPERATION OF SATELLITE NAVIGATION

Abstract

The content will integrate the current development progress of global satellite navigation area and the extensive cooperation of Global Navigation Satellite System (GNSS), introduce related work of international cooperation of GNSS, and discuss the possible future cooperation. The report will include: background of international cooperation of satellite navigation systems, basic principle of international cooperation, and current work of china satellite navigation international cooperation research, outlook and idea of international cooperation of GNSS. The background will introduce the trend of global satellite navigation compatibility, the extensive application of satellite navigation systems, the challenges and opportunities of the global satellite navigation cooperation. The basic principle declares that GNSS should insist on openness, cooperation, resources sharing, and adhere to the concept of "win-win" solution. Current work showed the international cooperation of BDS with other satellite navigation systems; joined the multilateral platform, as International Committee on GNSS under the umbrella of United Nations; BeiDou Asia-Pacific Tour, BeiDou ASEAN Tour; and promoted academic communication and education training. Expecting and exploring the main areas, working mechanism, platform on satellite navigation international cooperation and also focus on the means on promoting satellite navigation international application. For example, how to provide better positioning, navigation and timing services for worldwide users; how to use multilateral international platforms; how to construct advantaged environment for satellite navigation development; do feasibility study on establishment of normalization mechanism between main providers and develop research on compatibility interoperation of GNSS, etc.