**论文提交表**

**Abstract Submission**

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**ABSTRACT:**

Tianjin port is the largest comprehensive port in North China. The main channel of Tianjin port is compound channel, with complex hydrological and meteorological condition, and the tidal current is irregular. In order to match user needs, the Navigation Guarantee Center of North China Sea (NGCN) began to establish Tianjin Port e-Navigation testbed to provider user real-time environment information service of the compound channel.

Main construction content of the project:

* Install two multi-function buoys on the key position of the compound channel to acquire real-time environment information.
* Establish mobile phone network transmission station on Dugu lighthouse to extend the coverage of mobile phone network.
* Establish shore based data processing system to provide real-time environment information service.
* Design and develop e- navigation bridge equipment, including mobile phone navigator to receive real-time environmental information service, so as to assist ships navigating in compound channel.

Now this project is under testing.