

Poly LSGI Researchers Garnered the Highest-order Best Paper Award from the Top GNSS Conference

The paper coauthored by LSGI researchers, Mr. Shiwei Yu and Dr. George Zhizhao Liu, garnered the single highest-order Best Paper Award at the 2018 Annual Forum of the International Association of the Chinese Professionals of Global Positioning Systems (CPGPS) held at Xi'an, China during 13-15 July 2018. Mr. Shiwei Yu is a year-one PhD student under Dr. Liu's supervision at the Department of Land Surveying & Geo-Informatics (LSGI), PolyU. Their paper titled "Investigating the Feasibility of GNSS-based Ionosphere Observation on a Fast-moving Train Platform (GIFT)" proposed the novel concept and experimentally confirmed the feasibility to make ionosphere observations and potentially other atmospheric observations using the fast-moving trains as platform, including the widely sprawling high-speed train networks in Mainland China. Ionosphere, approximately 60-2000 km above the Earth surface, is a crucially important layer of the atmosphere and it has a significant impact on the achievable accuracy and reliability of positioning and navigation using Global Positioning System (GPS) and Global Navigation Satellite Systems (GNSS). It also has a profound effect on our radio wave based systems such as communications.

The 2018 CPGPS Annual Forum attracted approximately 350 participants from universities and research institutions in Mainland China, Hong Kong, and the overseas. The CPGPS, established in 2001 and headquartered in Canada, is an international association consisting of worldwide Chinese professionals aiming to promote the art and science of navigation, particularly the satellite-based Global Navigation Satellite Systems, including the U.S. Global Positioning System and Chinese Beidou Navigation Satellite System.

