

The Changing Landscape of GNSS Precise Positioning

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Global Navigation Satellite Systems (GNSS) technology has revolutionised many aspects of the modern global economy. It provides essential support for everything from emergency services, precision agriculture, construction and mining, to our understanding of the processes of plate motions, all of which require one thing: precise and accurate position information.

Today we are seeing a new generation of GNSS correction services, software and hardware devices enabling cheaper, more compact and truly scalable high-precision GNSS solutions, making the technology accessible to mass-market. At the same time, GNSS satellites are also evolving to include next generation augmentation capabilities to improve PNT services. This revolution in precise positioning is helping to realise new applications for example in the automation industry, and to unlock opportunities in new markets.

In this talk, A/Prof SueLYnn Choy will encapsulate current developments in GNSS precise positioning in particular the changing landscape of Precise Point Positioning (PPP) services. It includes efforts at the international level to address standardization and interoperability of PPP services; and speculate on a future where mass-market uptake will be the driving force in the ‘democratisation’ of GNSS precise positioning.