

Ginan - Open Source Analysis Centre Software from Geoscience Australia

Eldar Rubinov (Australia)

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SUMMARY

Ginan is a GNSS analysis centre software that is currently being developed by Geoscience Australia in partnership with FrontierSI and a number of Australian universities. Ginan is a fully open-source software based around a PPP engine that can be used to compute precise positions and deliver real-time correction services.

The primary purpose of Ginan is to promote Australia's unique modelling and analysis systems for multi-GNSS processing in real-time and deliver precise positioning products to the Australian and international PNT community; support expert advice on navigation system performance over Australia; and provide a state-of-art GNSS analysis centre software to universities and research organisations, to enable Australia to lead the development of geospatial technology.

Apart from these primary aims, which are centred around Australia, Ginan can also be used by national mapping agencies around the world to help with the development of the next generation of geodetic datums. Ginan can be used for many geodetic activities such as computation of daily coordinate solutions, precise orbit determination, computation of clocks & biases, atmospheric modelling, data QA/QC and more.

This presentation will provide the overview of Ginan, the various features of the software, the current status of development, and the roadmap to the final release.

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Eldar Rubinov (Australia)

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