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Combination of 3D epoch-wise and permanent geodetic networks observed by GNSS. (English) [Zbl 1244.86009](#)

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Summary: The local, regional and global geodetic networks are recently almost exclusively observed by satellite radionavigation methods, such as the U.S. Global Positioning System (GPS), and the Russian navigation system GLONASS. The unprecedented accuracy of geodetic satellite positioning allows determination of the geocentric site coordinates at millimetre level. The paper points to complex adjustment model applied for combination of 3D coordinates observed in permanent and epoch-wise satellite networks. The discussed methods are demonstrated on local and regional GPS networks in Slovakia and in Central Europe.

MSC:

86A30 Geodesy, mapping problems

86A32 Geostatistics

62P30 Applications of statistics in engineering and industry; control charts

Keywords:

3D Global Navigation Satellite System Network; adjustment model for combination of 3D coordinates

Software:

Bernese GNSS

Full Text: [EuDML](#)

References:

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