



## Local geoid determination based on land gravity data

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This contribution deals with the local gravity field modeling based on land gravity data. A mathematical model used for determination of a local geoid model by combining land gravity anomalies and the Earth Gravitational Model 2008 (EGM08) is shortly reviewed. Residual geoidal heights are estimated through a residual disturbing gravity potential that is solved from the land gravity anomalies reduced for the reference component generated from EGM08. The precision of final local geoid model of Taiwan is estimated by comparison of the geoid model and "real" geoid at GPS-levelling points.