Development of estimation method of deep ground structure using long-term microtremor observation and gravity survey

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The purpose of this study is to develop an easy way to estimate deep ground structure. We combine gravity survey and long-term microtremor survey. Seismic interferometry is applied to analyze long-period microtremor, where the influence of deep soil structure appears. Our method is applied to the case in Hsinchu, Taiwan and structure model is modified.

Keywords: long-term microtremor observation, gravity survey, seismic interferometry, deep ground structure