

D203-008

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Practical Differential InSAR - PSInSAR

Shigeki Kuzuoka[1]; Toshimi Mizuno[2]

[1] ImageONE; [2] OYO CORPORATION

<http://www.imageone.co.jp/>

PSInSAR technique is one of DInSAR methods to monitor the land deformation caused by earthquakes, volcanic activities, land slides, and so on. The technique can overcome the difficulties of standard DInSAR technique like the selection of useful SAR data and the atmospheric effect. It has some advantages to monitor the land deformation over a wide area with a uniform accuracy and time histories.

In this paper, after the principles of PSInSAR technique are explained, the expected accuracy and the limitations are shown. Then some experienced projects to monitor the land deformation caused by tunnel construction and subtle and large movement caused by pre-co-post earthquake.