Result of DInSAR Analysis of Zentoku Landslide, Japan, and developing of landslide recognition tools

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In order to build up the monitoring system of landslide, we have been investigating applicability of DInSAR analysis for landslide of Japan using ALOS PALSAR. And, in parallel with it, we are developing collapse type landslide detection tool for ALOS PALSAR and AVNIR-2.

One of the test sites, Zentoku landslide, is located on the steep slope; therefore, DInSAR result seems negative result so far. In order to understand this reason, we analyzed this test site by DInSAR using not only ascending mode data but also descending mode data. And also, we proposed simple numerical analysis model to validate DInSAR result.

In the developing of collapse type landslide detection tool, we modified the algorithm to speeding-up the analytical time. And also, we propose the new technique of emphasizing landslide area on SAR image using the rotation angle between before-and-after images of landslide.

In the presentation of this PI meeting, we’ll show the result of DInSAR analysis of Zentoku landslide, and report a prospect result of the reason of negative result. And we report the result of modification of collapse type landslide detection tool, and also we'll propose the new technique of emphasizing SAR image to detect collapse type landslide.

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