

# An approach for monitoring real time seismic intensity distribution using seismic intensity meters maintained by a local government -Case study on Tottori prefecture -

\*Takao Kagawa<sup>1</sup>, Tatsuya Noguchi<sup>1</sup>

1. Tottori University Graduate School of Engineering

An approach for monitoring real time seismic intensity distribution using seismic intensity meters maintained by a local government is demonstrated. Dense observation network is desirable for upgrading accuracy and quality of Earthquake Early Warning System. Seismic intensity meters installed all municipalities before recently conducted great synoecism are the most suitable equipment for the purpose. The seismic intensity meters in Tottori prefecture are improved to broadcast packets with peak ground acceleration and JMA seismic intensity at every one second. The data are received at Tottori University and PLUM method is applied to the data for estimating JMA seismic intensity distribution at present or in near future. Using the system, we can obtain detailed seismic intensity distribution than before, since we can use 34 seismic intensity meters in Tottori prefecture but only 6 observation sites in the area are used for usual earthquake early warning by JMA.

Keywords: Local Government, Seismic Intensity Meter, Real Time, PLUM method

