

## Regional Disaster Information System by using IT Kyoshin Seismometer for Buildings : Making the Regional Earthquake Earl

Kiyoshi Takano<sup>1\*</sup>, Takamori Ito<sup>1</sup>

<sup>1</sup>III & ERI, University of Tokyo

We have developed the IT Kyoshin Seismometer for Buildings(Takano et.al 2005) and installed these sensors for some buildings of the university (Takano et.al 2012, etc).

On the other hand, in order to examine the possibility of utilization as regional disaster prevention information system, we have installed the sensors in several private housings at the local area with the cooperation of the local community.

On the other hand, in order to examine the possibility of utilization as regional disaster prevention information system, we have installed the sensors in several private housings at the local area with the cooperation of the local community in Chigasaki city.

And we have developed the earthquake early information of the housing and regions by e-mail for the users.

In this presentation, we will discuss about the earthquake early information of the housing and regions by e-mail for the regional users.

When an earthquake occurred, the earthquake early information e-mail was sent to the users of the housing installed the sensors.

This information includes the shaking of the ground around the house, first and second floors and ceiling obtained by sensors by using the simple seismic intensity (K-value).

This e-mail may be sent to some mobile phones of the users and their families etc.

As how to take advantage of the this e-mail, we can consider as follows.

1. It will help ease knowing about the shake of the own housing compared to the average of the surrounding housings and help to do the disaster prevention activities.

2. When the major earthquake occurred, it will help to make rapid response for the status of damage in own house and regions.

And since it can send some mobile phones, we can consider more as follows.

3. By this mail, users can found shaking of the home from office.

4. Can help to watch house of the elderly.

5. Can help the establishment of the regional self-preventing community for disaster prevention organization.

In this report, a presentation on the overview of the system and issues such as this.

Keywords: IT Kyoshin Seismometer, Regional Disaster Information, earthquake early information