

The earthquake vibration observation of the Yasuda auditorium using the IT Kyoshin seismometer

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In order to reduce the seismic disaster, it seems to be the usefulness to investigate the seismic vibration of our familiar buildings such as housing, companies, schools, etc. in small earthquake, examine the weak point and improve the earthquake resistance of these building effectively. For this purpose, we devised IT strong motion seismometer as a new type self install strong motion seismometer.

With this IT Kyoshin seismometer, we continue the vibration observation of some buildings in University of Tokyo from 2006.

The repair work of the Yasuda auditorium will be carried out. We install the IT Kyoshin seismometer and will observe it to confirm an effect of the construction.

We used the high-performance sensor and, in addition to a low cost standard IT Kyoshin seismometer, observed it.

We finish observation before the construction and analyze data now.

After construction was completed, we install the IT Kyoshin seismometer again and are going to compare it.

Keywords: IT Kyoshin (Strong Motion) Seismometer, Structural Health Monitoring