

## **Evaluation on Influence of Construction Vibrations to the Earthquake Early Warning Systems**

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In case where construction work is commencing with its vibrations induced near seismic stations along railways, railway operators stop the Earthquake Early Warning systems (EEWs) for the target railways to prevent the malfunctions of the EEWs. To secure traveling trains during earthquakes, it is important to evaluate the influence of construction vibrations to the EEWs and to investigate measures against construction vibrations to be taken at seismic stations. At the beginning, we performed linear array measurement of various construction vibrations to understand the characteristics of their sources and the propagation. Finally, we proposed the flow chart for the handling of seismic stations near construction sites, including a concept of limit distance between the construction source and the seismic station.