The Development of a Sign Detection Method of the State Change by Means of Condition Monitoring Data

Satoko RYUO Tomoki KAWAMURA Yusuke KAWAMURA
Akio HADA Nagateru IWASAWA

By introducing the condition monitoring system for the railway facilities, the environment in which the condition monitoring data can be acquired is being established. Hence, a sign detection method of the state change of the facilities which focuses on only the movement of data and does not depend on the physical model, was developed by using the condition monitoring data stored. In the method developed, the interdependency relationship between the condition monitoring data was calculated and the time series change of the interdependency relationship was utilized. In addition, the method developed was applied to actual data not including external factors, and as a result of the verification, it is confirmed that the method can be used for detecting a sign of the state change.