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Preprocessing of Network MT electric field data contaminated by leak currents to obtain the accuracy MT response

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We report a preprocessing method of Network-MT electric field data affected leak currents for obtaining the accuracy MT response. In general, it is difficult to obtain the accuracy MT response using Network-MT electric field data contaminated by leak currents produced by DC railways. We have obtained more accurate MT responses using multivariable analyses (PCA and FA) utilizing characteristics of Network-MT method as the preprocessing method.

Keywords: MT response, Network-MT data, leak currents, multivariable analysis