Geoscientific
Instrumentation
Methods and
Data Systems

Discussions

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**Interactive
comment**

Interactive comment on "Backpropagation Neural Network as Earthquake Early Warning Tool using a new Elementary Modified Levenberg–Marquardt Algorithm to minimise Backpropagation Errors" *by* Jyh-Woei Lin et al.

Anonymous Referee #1

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Dear Author After I have read your paper, This paper can be accepted for publication, after address my questions (1) In page 3 You wrote ================= The aim of this paper is to determine whether the EEW develops a better real-time and on-line performable training method in BPNN. The microseismic data in the records are used as training data for the BPNN model; in each station shown, the behaviour of microseismic data at each station records the ray tracing path, allowing for the prediction of upcoming signal. When the large predicted errors are presented, then it is expected that the behaviour of microseismic data has changed.

===================== Please explain them more clear? (2) In page 5 you wrote ==================== The vertical component of an earthquake was the most dangerous ========================== Why? (3) In page 6 you wrote ============== surveying of local geological conditions near each station including the consideration of local building damage from past events that were evaluated by the earthquake-resistant and seismic coefficients, and seismic capacity evaluation of existing reinforced concrete buildings ============ These mention are not logic! That is: local geological conditions including the consideration of local building damage? no

Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., https://doi.org/10.5194/gi-2018-13, 2018.