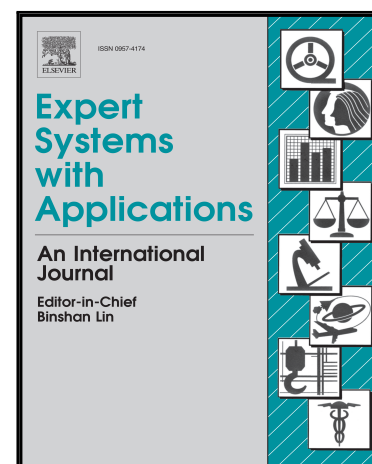


## Accepted Manuscript

Dynamic analysis of soil-structure interaction using the neural networks and the support vector machines

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**Research highlights**

- Applies Neural Network and the Support Vector Machine to soil structure problems.
- Involves a much larger amount of experimental/recorded data compared to others.
- Develops models for predicting both dynamic characteristics and dynamic responses.
- A two-hidden-layered network is shown to be the most efficient one among others.
- The Support Vector Machine was faster than Neural Network for the same accuracy.

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