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A HYBRID COMPUTATIONAL APPROACH FOR SEISMIC ENERGY DEMAND PREDICTION

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Highlights:

- An evolutionary method is proposed to formulate the energy-based engineering demand parameters.
- A multi-objective genetic programming is combined with linear regression in this framework.
- Both structural and earthquake characteristics are included in the proposed prediction models.
- For each problem, one model with four different coefficient sets is proposed for various soil types.
- A comparative study is performed to compare the model performance with other well-known models.

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