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Geotechnical Earthquake Engineering

Guest Editor:

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Deadline for manuscript submissions:
closed (20 December 2023)

Message from the Guest Editor

The primary goal of geotechnical earthquake engineering is to understand how rocks and soils react to dynamic loadings caused by earthquakes, blasting, pile driving, machine vibrations, ocean waves, transportation, etc., and to solve related seismic problems.

Potential topics of discussion include, but are not limited to, the following areas:

1. Design of geotechnical structure subjected to earthquake or impact loading;
2. Dynamic behaviour and seismic design of geotechnical structures;
3. Dynamic properties of soils and rocks;
4. Dynamic soil structure interaction;
5. Engineering seismology;
6. Ground improvement techniques for mitigation of earthquake hazards;
7. Constitutive behaviour of soils and rocks under dynamic loading conditions;
8. Liquefaction;
9. Field experimentation, and numerical simulation of liquefaction behaviour of soils;
10. Seismic slope stability and landslides;
11. Case histories;
12. Blast generated ground vibration research;
13. Soil dynamics and foundations;
14. Wave propagation in soils and rocks;
15. Seismic instrumentations;
16. Seismic response of buildings;
17. Seismic response of bridges;
18. Pavement engineering.

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Message from the Editor-in-Chief

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