

Applications of OpenSees in Civil Engineering

Time:
4:00pm - 5:00pm

12
Jun
2019

Wednesday

Venue:

Room Z413, Block Z,
The Hong Kong Polytechnic
University

Registration:

Online registration at
<http://goo.gl/HGKwPH> or by
scanning the QR code.

This seminar is free of
charge. The attendance
certificate will be provided
upon request.

For more information, please
contact Dr. Songye Zhu:

Tel: 3400 3964 or

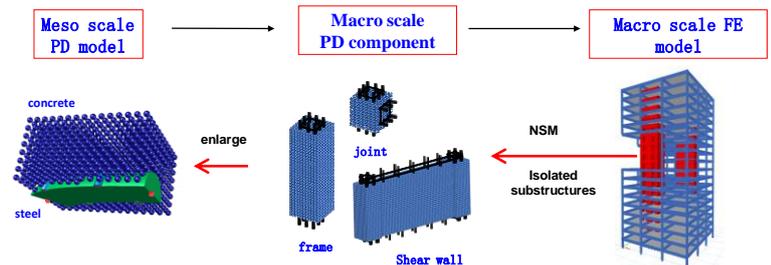
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Prof. Quan GU (古泉)

Chair of Department of Civil Engineering
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Abstract



OpenSees (Open System for Earthquake Engineering Simulation), is a popular open source software framework based on finite element method (FEM) and used to simulate the seismic response of structural and geotechnical systems. The framework has been developed by the Pacific Earthquake Engineering Research Center (PEER) since 1997. OpenSees supports a wide range of simulation models, solution procedures, and distributed computing models. In this seminar, Dr. Gu is going to talk about his recent research on some applications of OpenSees in civil engineering, including response sensitivity analysis based on direct differentiation method (DDM), reliability and nonlinear optimization, soil-structure interaction and multiscale analysis by combining OpenSees with discrete element method (DEM) or Peridynamic (PD).

Speaker's Biography

Dr. Quan Gu is a Professor in Civil Engineering at Xiamen University. He received his Bachelor and Master's degrees from Tsinghua University, and got his PhD degree from University of California, San Diego (UCSD) in 2008. He joined Xiamen University since 2010. Dr. Gu has kept involved in the OpenSees development and promotion in China. He has participated in a few major research projects which are related to the further development of OpenSees or conducted based on OpenSees. He has published more than 30 academic papers and served as guest editor of the journals "Soil dynamics and earthquake engineering" in 2015 and "Computer Modeling in Engineering & Sciences" in 2019.



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