

Online Talk

Professional Series: Seismic Design and Earthquake Engineering (Part 1 of 5): Seismic Vulnerability of Building in Malaysia, Current Situation and Future Challenges

Date : 16 Oct 2021 (Sat)
Time : 9.30am to 12.30pm
Venue : Zoom Online Platform
Moderator : Ms. Goh Shing Yi

Synopsis

For decades, Malaysia has been considered as a low seismicity region. Therefore, the majority of buildings were not designed for seismic actions. The 2015 earthquake in Sabah, however, raised some concern regarding the safety of existing buildings against earthquakes with low to medium intensity. This webinar addresses the seismic vulnerability of short and high-rise reinforced concrete buildings in Malaysia through the developed seismic fragility curves. At first, the concept of seismic design and seismicity of Malaysia will be briefly explained. Then, the common practice in Malaysia's building construction will be reviewed and compared with seismic codes' requirements. Next, the developed seismic fragility curves for short and tall buildings in Malaysia will be presented and discussed. Finally, the future challenges for the seismic design and retrofitting of buildings in Malaysia will be explained. This course would be beneficial for design engineers, architects, consultant companies, and decision makers.

Registration Fees

FREE For IEM Members only	FOC
Non-Member	RM 50

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About the Speaker

Assoc. Prof. Dr. Mohammadreza Vafaei



Mohammadreza Vafaei (PhD, P.Eng., M.ASCE, M.EERI) is currently an associate professor in the school of civil engineering, Universiti Teknologi Malaysia (UTM), Johor, Malaysia. Before joining UTM, he served several consultant companies in Iran and has led the seismic design of many structures like tall buildings, air traffic control towers, airport terminals, water reservoirs, telecommunication towers, and monumental structures. His expertise includes seismic design and retrofitting of structures, vibration control through passive dampers, and structural health monitoring. He has been invited as the keynote speaker for several international conferences and workshops. He has also published more than 50 papers in referred journals and conferences.

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