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Earthquake Engineering, Passive Structural Control, Seismic Performance-Based Design of Buildings, Seismic Risk Assessment of Nuclear Power Plants

### 期刊論文(Journal Papers)

1. Huang, Y.-N., Whittaker, A. S., and Hamburger, R. O. (2017). "A simplified analysis procedure for performance-based earthquake engineering of building." *Engineering Structures*, 150(11), 719-735, <https://doi.org/10.1016/j.engstruct.2017.07.048>.
2. Lin, F.-R., Chai, J.-F., Lai, Z.-Y., Chen, M.-Y., Huang, Y.-N., and Chang, K.-C. (2017) "A simplified method for the evaluation of seismic demands on in-cabinet equipment in motor control center type cabinets in nuclear power plants." *Journal of the Chinese Institute of Engineers*, 40(3), 179-190. DOI: 10.1080/02533839.2017.1303403
3. Samanta, A., and Huang, Y.-N. (2017) "Ground motions scaling for seismic performance assessment of high-rise moment-resisting frame building." *Soil Dynamics and Earthquake Engineering*, 94, 125-135, <http://dx.doi.org/10.1016/j.soildyn.2017.01.013>.
4. Huang, Y.-N., Yen, W.-Y., and Whittaker, A. S. (2016). "Correlation of horizontal and vertical components of strong ground motion for response-history analysis of safety-related nuclear facilities." *Nuclear Engineering and Design*, 310(12), 273-279, <http://dx.doi.org/10.1016/j.nucengdes.2016.09.036>.
5. 盧煉元、蕭輔沛、湯宇仕、黃尹男、陳慶輝、李官峰，(2020)，「具多重耐震性能等級之機率式結構耐震評估法」，結構工程，中華民國結構工程學會，第三十五卷，第二期，臺北市。
6. 謝瑋桓、盧煉元、蕭輔沛、湯宇仕、黃尹男，(2018)，「中高樓結構機率式倒塌風險評估法之應用研究」，結構工程，中華民國結構工程學會，第三十三卷，第二期，第 89-120 頁，臺北市。
7. 顏愉、溫欣儀、黃尹男、陳柏華，(2018)，「尖端人工智慧於土木設施應用之展望」，土木水利，中國土木水利工程學會，第四十五卷，第五期，第 51-58 頁，臺北市。

### 研討會論文 (Conference Papers)

1. Huang, Y.-N. (2020). "Seismic probabilistic risk assessment of nuclear power plants using response-based fragility curves." *Proceedings, The 7th Asia-Pacific Symposium on Structural Reliability and Its Applications (APSSRA2020)*, Kyoto, Japan.
2. 楊甯凱, 黃尹男, 劉勛仁, 趙書賢 (2020), “考慮近斷層脈衝影響之隔震設計-以臺北盆地為例”, 中華民國第十五屆結構工程研討會暨第五屆地震工程研討會, 台南.
3. 楊淳任, 黃尹男, 張長菁, 陳威証 (2020), “核能電廠結構元件地震易損性分析方法研究”, 中華民國第十五屆結構工程研討會暨第五屆地震工程研討會, 台南.
4. 謝銓裕, 黃尹男, 張長菁 (2020), “受軸力影響之鋼板混凝土複合牆耐震行為試驗與分析研究”, 中華民國第十五屆結構工程研討會暨第五屆地震工程研討會, 台南.
5. 蘇智偉, 黃尹男, 汪向榮, 張長菁, 林旺春, 楊亞衡 (2020), “水平隔震結構裝設垂直向設備隔震系統之振動台試驗與分析”, 中華民國第十五屆結構工程研討會暨第五屆地震工程研討會, 台南.
6. 趙書賢, 鍾立來, 黃尹男 (2020), “台灣設計與最大考量地表速度峰值研擬”, 中華民國第十五屆結構工程研討會暨第五屆地震工程研討會, 台南.
7. Yang, Y.-H., and Huang, Y.-N. (2019). "The impact of spectral shape on the design of frictional-pendulum isolation system subjected to pulse-like ground motions." *Proceedings, The 21th Taiwan-Japan-Korea Joint Seminar on Earthquake Engineering for Building Structures (SEEBUS)*, Hsinchu, Taiwan.
8. Yang, Y.-H., Lin, Y.-C., Chang, C.-C., and Huang, Y.-N. (2019). "Performance of friction-pendulum bearing systems subjected to near-fault ground motions." *The 32nd KKHTCNN Symposium on Civil Engineering*, Daejeon, Korea, 24-26 October.
9. Chiu, S.-H., Huang, Y.-N., Jan, Y.-Y., and Liu, K.-J. (2019). "Characteristics of correlation coefficient of near-fault pulse-like ground motions." *The 32nd KKHTCNN Symposium on Civil Engineering*, Daejeon, Korea, 24-26 October.
10. Yang, Y.-H., Lin, Y.-C., Chang, C.-C., and Huang, Y.-N. (2019). "Performance of friction-pendulum bearing systems subjected to near-fault ground motions." *International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake*, Taipei, Taiwan, 15-19 September.
11. Huang, Y.-N., Chang, C.-C., Cheng, Y.-C., and Ho, C.-A. (2018). "In-plane cyclic behavior of steel-plate composite walls with boundary elements." *Proceedings, The 31st KKHTCNN Symposium on Civil Engineering*, Kyoto, Japan.
12. 楊亞衡, 林禹辰, 張長菁, 黃尹男 (2018), “摩擦單擺隔震系統受脈衝型地震歷時作用之振動台試驗”, 中華民國第十四屆結構工程研討會暨第四屆地震工程研討會, 台中.
13. 高翊書, 詹家昕, 黃尹男, 張長菁 (2018), “含邊界構材之鋼板混凝土複合牆之耐震行為及反覆載重試驗研究”, 中華民國第十四屆結構工程研討會暨第四屆地震工程研討會, 台中.
14. Yang, Y.-H., Lin, Y.-C., and Huang, Y.-N. (2018). "An experimental study of frictional-pendulum isolation system subjected to pulse-like ground motions." *Proceedings, The 20th Taiwan-Japan-Korea Joint Seminar on Earthquake Engineering for Building Structures (SEEBUS)*, Kyoto, Japan.

15. 黃尹男, 高翊書, 詹家昕, 張長菁 (2018), “含邊界構材之鋼板混凝土複合牆之耐震行為及反覆載重試驗研究”, 第六屆海峽兩岸地震工程青年學者研討會, 大連理工大學, 大連, 中國.
16. 黃尹男 (2017), “淺談核能電廠機率式地震風險評估”, 第五屆海峽兩岸地震工程青年學者研討會暨第五屆工程結構抗震減震新技術研討會, 同濟大學, 上海, 中國. 11 月 17-18 日.
17. Huang, Y.-N. (2017). "Seismic behavior of steel-plate composite walls." *Proceedings*, 3rd International Conference on Sustainable Infrastructure and Built Environment (SIBE), Bandung, Indonesia.
18. Huang, Y.-N., Chang, C.-C., and Lin, B.-S. (2017). "In-plane cyclic behavior of shear-critical steel-plate composite walls." *Proceedings*, The 19th Taiwan-Japan-Korea Joint Seminar on Earthquake Engineering for Building Structures (SEEBUS), Seoul, Korea.
19. Chang, C.-C., Huang, Y.-N., Cheng, Y.-C., and Ho, C.-A. (2017). "An experimental study of the in-plane cyclic behavior of steel-plate composite walls with boundary elements." *Proceedings*, 24th International Conference on Structural Mechanics in Reactor Technology (SMiRT), Busan, Korea.
20. Huang, Y.-N. (2017). "Challenges in the design of seismically isolated emergency response centers in Taiwan." Panelist, State-of-Art Section 2: Seismic Isolation of Nuclear Power Plants, 24th International Conference on Structural Mechanics in Reactor Technology (SMiRT), Busan, Korea.
21. Huang, Y.-N. (2017). "Impact of ground-motion scaling on seismic probabilistic risk assessment." Panelist, Special Section 3: Seismic Probabilistic Risk Assessment, 24th International Conference on Structural Mechanics in Reactor Technology (SMiRT), Busan, Korea.
22. Huang, Y.-N., Chang, C.-C., Cheng, Y.-C., and Ho, C.-A. (2016). "In-plane cyclic behavior of steel-plate composite walls with boundary elements." *Proceedings*, The 18th Japan-Taiwan-Korea Joint Seminar on Earthquake Engineering for Building Structures (SEEBUS), Tainan, Taiwan. BEST PAPER AWARD.
23. 張長菁, 黃尹男, 鄭與錚, 何其安 (2016), “含邊界構材之鋼板混凝土複合牆之耐震行為及反覆載重試驗研究”, 中華民國第十三屆結構工程研討會暨第三屆地震工程研討會, 桃園, 8 月 24-26 日.
24. Huang, Y.-N., (2016). “Cyclic Behavior of Steel-Plate Composite Wall Piers,” *Proceedings*, the Second Huixian International Forum on Earthquake Engineering for Young Researchers, Beijing, China.
25. Huang, Y.-N., and Liu, C.-R. (2016). "Impact of near-fault ground motions on the efficiency of viscous-damping systems." *Proceedings*, ASME 2016 Pressure Vessels and Piping Conference, American Society of Mechanical Engineers (ASME), Pressure Vessels and Piping Division, Vancouver, British Columbia, CA.