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Nonlinear Analysis & Design of Structures, Computational Mechanics, Structural Optimization

(A) 期刊論文(Journal papers)

1. 詹鵬台、鄭至伸、呂良正(2016)，黏性阻尼器應用於二維與三維建築結構之最佳化設計，結構工程，第三十一卷，第四期， pp. 59-67。
2. 彭瑞麟、何崇銘、李文進、呂良正 (2017) ， SRC 結構營造施工安全問題之探討，結構工程，第三十二卷，第二期，pp. 91-107。
3. 唐瑤書、呂良正 (2018)，以實驗及建築耗能模擬軟體評估建築外殼節能措施之效益，中國土木水利工程學刊，第三十卷，第二期，pp. 93-105。
4. 呂良正、林玟慧、張芸翠 (2019)，建立新建築循環設計之策略，營建知訊，第 441 期，pp. 6-19。
5. 呂良正、李佳逢、馮紹庭(2019)，機器學習於橋梁健康管理之應用，營建知訊，第 442 期，pp. 24-37。
6. 呂良正、張嘉凌(2020)，營建廢棄物對銅離子吸附之探討，混凝土科技，第 14 卷第 4 期，pp. 77-82。

(B) 研討會論文(Conference papers)

1. Leu, L.-J., Shih, K.-W., Lee, C.-H., Guo, J.-Y., Ke, C.-Y., and Chang, J.-T. (2016), "Optimal Design of Structures," *Proceedings of the 14th East-Asia Pacific Conference on Structural Engineering and Construction Management*. (EASEC-14). Ho Chi Minh , Viet Nam, January 6-8.
2. Liu, M., Leu, L.-J. and Than, C. (2016), " IEET's Mentoring of Myanmar in Engineering Accreditation System," *ASEE 2016 Annual Conference and Exposition*, June 25-29 New Orleans, LA, USA.
3. 洪郁珊、蕭祥佑、呂良正 (2016)，"分布式多頻調諧質量阻尼器之最佳化設計與減振效能之探討，"第十三屆中華民國結構工程暨第三屆中華民國地震工程研討會論文集，8月24日-26日，桃園。
4. Chan, P.-T., Cheng, C.-S. and Leu, L.-J. (2016), "Optimal Design of Viscous Dampers for Two and Three-Dimensional Building Structures,"第十三屆中華民國結構工程暨第三屆中

華民國地震工程研討會論文集，8月24日-26日，桃園。

5. Leu, L.-J. (2016), "Educating the Future Civil Engineers for a Sustainable World: An Integration of Cornerstone, Keystone, and Capstone Courses on Engineering Design at the National Taiwan University," Civil Engineering Conference in the Asia Region (CECAR 7), Hawaii, US, Aug. 30-Sept. 2.
6. Leu, L.-J., Shih, K.-W., Tseng, Y.-L., and Ke, C.-Yu. (2016), "Topology Optimization by Improved Element Exchange Method," *The 2nd Association of Computational Mechanics Taiwan Conference*, 20-21 October; Taipei, Taiwan.
7. Chan, P.-T., Huang, C.-F., Cheng, C.-S. and Leu, L.-J. (2016), "Optimal Design of Viscous Dampers for Two-Dimensional Building Structures," *Proceedings of the 29th KKHTCNN Symposium on Civil Engineering*, December 3-5, Hong Kong.
8. 詹鵬台、鄭至伸、呂良正(2017), 黏性阻尼器應用於二維與三維建築結構之最佳化設計, 第九屆海峽兩岸及香港鋼、組合及金屬結構技術研討會論文集, 1月5-6日, 香港。
9. Hsu, M.-S., Tang, J.-S., and Leu, L.-J. (2017), "Numerical Analysis of Free Cooling and Ventilation System with Multiple PCMs for Building," *Proceedings of the 30th KKHTCNN Symposium on Civil Engineering*, November 2-4, Taipei, Taiwan.
10. Lin, H.-L., Lian, J.-W., and Leu, L.-J. (2017), "Implementation of Shell and Plate Structural Optimization by Finite Element Package ABAQUS," *Proceedings of the 30th KKHTCNN Symposium on Civil Engineering*, November 2-4, Taipei, Taiwan.
11. Lu, Y., Huang, C.-F., and Leu, L.-J. (2017), "Optimal Placement of Viscous Dampers for Two-Dimensional Building Structures," *Proceedings of the 30th KKHTCNN Symposium on Civil Engineering*, November 2-4, Taipei, Taiwan.
12. Lu, S.-H., Leu, L.-J., and Lin, C.-C. (2018), "Using Finite Element Package ABAQUS in Stability Analysis of Hand-Dug Retaining Piles," *Proceedings of the Thirty-First KKHTCNN Symposium on Civil Engineering*, November 22-24, Kyoto, Japan.
13. Yang, Y.-Y. and Leu, L.-J.(2019), "Using System Identification and Interpolation Method to Develop Optimal Sensor Placement with High-Rise Building without Numerical Model," *Proceedings of the Thirty-Second KKHTCNN Symposium on Civil Engineering*, October 24-26, Daejeon, Korea.

(C) 技術報告及其他等(Technical reports and others)

1. 呂良正 (2016), 橋梁美學設計準則建立與實際案例探討, 共 146 頁。
2. 呂良正 (2017), 元素交換法之發展及其於結構初步設計及微觀結構設計之應用 (2/2), 科技部研究計畫期末報告, 計畫編號, MOST 103-2221-E-002-072-MY2, 共 58 頁。
3. 呂良正、楊國鑫(2018), 人工擋土柱開挖施工安全改善實務及指引編撰, 勞動部勞動及職業安全衛生研究所, 計畫編號 ILOSH107-S305, 共 134 頁。
4. 呂良正 (2018), 應用人工智慧機器學習模式於橋型規劃與研選之探討, 共 130 頁。