土木工程學系 (P.S.非黑色姓名字體為今年更新資料)

大地工程組

結構工程組

水利工程組

交通工程組

營管工程組

電輔工程組

測量工程組

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Soil Dynamics, Slope Stability, Ground Settlement Analysis,Debris Flow

期刊論文 (Journal Paper)

1. Chen, Tien-Chien, Meei-Ling Lin*, Kuo-Lung Wang, 2014, "Landslide Seismic Signal Recognition and Mobility for an Earthquake-induced Rockslide in Tsaoling, Taiwan", Engineering Geology, 171, pp.31-44.(SCI)
2. 林美聆，陳永昇，王國隆，謝佑明，黃文昭，2014.9，"公路邊坡工程設計規範(草案)研修"，地工技術，第 141 期，第 7-16 頁。
3. 林美聆、陳彥澄，"應用光達地形資料於莫拉克災後陳有蘭溪流域崩塌與土石流地質敏感地區判釋與分析"，航測及遙測學刊，第十八卷，第 2 期，第 129-144 頁。
4. Lin*, Meei-Ling, Te-Wei Chen, Ching-Weei Lin, Dia-Jie Ho, Keng-Ping Cheng, Hsiao-Yuan Yin and Mei-Chen Chen, "Detecting Large-Scale Landslides Using Lidar Data and Aerial. Photos in the Namasha-Liuoguey Area, Taiwan", Remote Sensing, 2014, 6(1), p42-63. doi:10.3390/rs6010042(SCI)
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10. Wang, Kuo-Lung, and Meei-Ling Lin, 2010, "Development of shallow seismic landslide potential map based on Newmark's displacement: the case study of Chi-Chi Earthquake, Taiwan', Environmental Earth Sciences, 60:775–785, DOI 10.1007/s12665-009-0215-1 (SCI)　NSC 94-2211-E002-039.

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1. .Lin, Meei-Ling, Te-Wei Chen, Yu-Chung Lin, Tien-Chien Chen, Chun-Ya Su, Kuo-Lung

Wang, Shiao-Yue Huang, Mei-Jen Chen "Numerical Simulation of Debris Flow Affected Area Caused by Different Precipitations." Engineering Geology for Society and Territory-Volume 2. Springer International Publishing, 2014. 495-499.

2. .Wang, Kuo-Lung, Meei-Ling Lin, Jun-Tin Lin, Ssu-Chung Huang, Ray-Tang Liao, Chao-Wei Chen. "Monitoring of the Evolution of a Deep-Seated Landslide in Lushan Area, Taiwan." Engineering Geology for Society and Territory-Volume 2. Springer International Publishing, 2014. 1317-1320.
3. .Lin, Meei-Ling, Te-Wei Chen, and Yung-Shen Chen, “Effects of landslides and sediment transportation on river basin following extreme rainfall event”, Proceedings, The Fourth International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (4th GEDMAR), 2014, Sept. Japan, Key Note Lecture
4. .Lin, M.L. and C.Y. Huang, “Numerical Simulation of Run-out Behavior of Earthquake-induced Landslides” Proceedings, the Sixth Japan- Taiwan Joint Workshop on Geotechnical Hazards from Large Earthquakes and Heavy Rainfall,2014,June,Japan
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15. 林美聆，林聖琪，王國隆，紀宗吉，林錫宏，民國 100 年 8 月，” 重大山崩災害潛勢地區災害模擬與風險分析”， 第 14 屆大地工程學術研討會，桃園。優良論文獎。
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24. Meei-Ling Lin, Kuo-Lung Wang, Sheng-Chi Lin, Chung-Hsien Chen, and Hsi-Hong Lin, 2010, 05 “A pseudo-3D rock fall scenario and risk assessment model– case study of Danfon site, Taipei” , EGU General Assembly, Vienna, Austria, EGU2010-14110
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6. 林慶偉，張中白，林美聆，王泰典，董家鈞，陳天健，曾志民，2013.12，“國土保育之地質敏感地區調查分析計畫-非莫拉克颱風受災區域之地質敏感特性分析(1/3)” 經濟部中央地質調查所委託研究計畫報告。
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8. 林慶偉，張中白，林美聆，王泰典，董家鈞，陳天健，曾志民，2012.12，國土保育之地質敏感地區調查計畫－莫拉克颱風受災區域之地質敏感特性分析(3/3)，經濟部中央地質調查所委託研究計畫報告。
9. 林美聆，陳天健，王國隆，陳德偉，林育崇，蘇群雅， 2012.2，機率化土石流潛勢溪流影響範圍劃設與分析，行政院農業委員會水土保持局研究委託研究計畫報告。
10. 林慶偉，張中白，林美聆，王泰典，董家鈞，陳天健，曾志民，2011.12，國土保育之地質敏感地區調查計畫－莫拉克颱風受災區域之地質敏感特性分析(2/3)，經濟部中央地質調查所委託研究計畫報告。
11. 林美聆，陳天健，陳德偉，林育崇，蘇群雅， 2010.12，研修土石流潛勢溪流影響範圍劃設方法 ，行政院農業委員會水土保持局研究委託研究計畫報告。
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專利（Patents）

類別	專　　利　　名　　稱	國別	專利號碼	發明人	專利權人	專利期間	國科會計畫編號
新型專利	室內土壤模型試驗用小型振動台	中華民國	M269452	林美聆 王國隆 周英豪	林美聆	2005/07/01 2014/07/21	NSC-92-2211-E002-050

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學歷/ 美國麻省理工學院博士

Ph.D., MIT

專長/ 岩石力學、岩體之組成律模式

Rock Mechanics, Numerical Analysis, Engineering Geology

期刊論文 (Journal Paper)

1. Y.M. Hsieh, K.C. Lee, F.S. Jeng* and T.H. Huang, 2011. Can tilt tests provide correct insight regarding frictional behavior of sliding rock block under seismic excitation? Engineering Geology 122, 84-92.
2. T. T. Wang*, F. S. Jeng and W. Lo, 2011. Mitigating large water inrushes into the New Yungchuen Tunnel, Taiwan, Bulletin of Engineering Geology and the Environment, 70(2), 173-186.
3. M.C. Weng, L.S. Tsai, Y.M. Hsieh and F.S. Jeng*, 2010. An associated elastic-viscoplastic constitutive model for sandstone involving shear-induced volumetric deformation. International Journal of Rock Mechanics and Mining Sciences 47, 1263-1273. (SCI)
4. K.P. Huang, K.J. Chang, T.T. Wang and F.S. Jeng*, 2010. Buckling folds of a single layer embedded in matrix – Folding behavior revealed by numerical analysis. Journal of Structural Geology 32(7), 960-974. (SCI)
5. M.C. Weng, L.S. Tsai, C.Y. Liao and F.S. Jeng*, 2010. Numerical modeling of tunnel excavation in weak sandstone using a time-dependent anisotropic degradation model. Tunnelling and Underground Space Technology 25(4), 397-406. (SCI)
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11. T.L. Chiang, T.T. Wang, K.C. Lee and F.S. Jeng*, 2009. Analysis of pyramidal block slide induced by seismic excitation. Journal of the Chinese Institute of Engineers 32(1), 107-122. (SCI)

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2. 王泰典、林信宏、李佳翰、鄭富書 (2010)：營運中隧道補襯砌裂縫影像判釋暨特徵化與數字化技術，第九屆海峽兩岸隧道與地下工程學術及技術研討會論文集，洛陽，第 100-108 頁。
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4. 王泰典、莊海岳、邱雅筑、李佳翰、鄭富書 (2009)：微變監測在營運中隧道穩定評估之應用，第八屆海峽兩岸隧道與地下工程學術與技術研討會論文集，11 月 18~19 日，台北。
5. 邱雅筑、韓仁毓、王泰典、鄭富書、黃燦輝 (2009)：平差技術應用於隧道全斷面量測精度之探討，第八屆海峽兩岸隧道與地下工程學術與技術研討會論文集，11 月 18~19 日，台北，B9-1~10。
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7. 李國誠、王少韡、鄭富書、黃燦輝 (2009)：動態受震條件下對塊體滑動門檻值之影響，第十三屆大地工程研討會，宜蘭，I17-01。
8. Y.M. Hsieh, K.C. Lee, F.S. Jeng* and T.H. Huang, 2009. Can tilt tests provide correct insight regarding frictional behavior of sliding rock block under seismic excitation? The next generation of research on earthquake-induced landslides: an international conference in commemoration of 10th anniversary of the Chi-Chi earthquake, 187-200.
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10. 邱雅筑、王泰典、鄭富書、黃燦輝 (2008)：攝影測量技術於隧道檢測之應用，第七屆海峽兩岸隧道與地下工程學術及技術研討會暨海峽兩岸岩土工程和地下工程青年科技研討會論文集，8 月 29-30 日，大連，第 247-254 頁。
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專利 請填入目前仍有效之專利。「類別」請填入代碼：(A)發明專利(B)新型專利(C)新式樣專利。

類別	專利名稱	國別	專利號碼	發明人	專利權人	專利期間	國科會計畫編號
新型專利	旋轉式加砂水刀裝置	中華民國	170930	沈景鵬 鄭富書 黃燦輝 謝宏新	榮民工程股份有限公司、鄭富書、黃燦輝、謝宏新	2001/03/ ~ 2102/01/	86-2221-E-002-0-29

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2. Yang, K-H✉, Lai, Z. W.⓼, Chiang, J⓼, Lin, M.L., (2019) “Model Tests on Geosynthetic-Reinforced Soil Foundation subjected to Normal Faulting”, *Proceedings of the 8th Civil Engineering Conference in the Asian Region, CECAR8*, Tokyo, Japan, April 2019.
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期刊論文 (Journal Paper)

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10. PC Guan, OLA Kwok, CT Sun (2017, May). Keynote Speech: Development of fluid-solid interacting reproducing kernel particle method for the modeling of flow and scouring under pipelines.. Engineering Mechanics Institute Conference, Taiwan.
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技術報告

1. 許尚逸、鄧崇任、廖文義、郭安妮、楊炫志、許雅涵、黃郁惟、劉佳泓（2018 年 08 月）。核能電廠耐震先導技術研發計畫第二次期中報告,子計畫二：地盤受震反應分析技術提升研究 。台灣電力股份有限公司委託之研究計畫(027050000101)。
2. 許尚逸、鄧崇任、廖文義、郭安妮、楊炫志、許雅涵、黃郁惟、劉佳泓 （2017 年 08 月）。核能電廠耐震先導技術研發計畫第一次期中報告,子計畫二：地盤受震反應分析技術提升研究 。台灣電力股份有限公司委託之研究計畫(027050000101)。

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Foundation Engineering,Geotechnical Earthquake Engineering,Seismic Design of Foundations, Soil-Structure Interaction

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1. Chiou, J.S.*, and Tsai, C.C. (2019, Sep). Analysis of in situ bridge columns with exposed caisson foundations in a gravel stratum under lateral loading. Advances in Structural Engineering, DOI: 10.1177/1369433219872441. (SCI). MOST 100-2221-E-492-017. 本人為第一作者、通訊作者.
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Structural Mechanics, Sound &Vibration,Boundary Element Method

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Passive Structural Control, Dynamic Structural Tests,Earthquake Resistance Design

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1. Ping-Hsiung Wang, Kuo-Chun Chang, Samuel Yen-Liang Yin, Jui-Chen Wang, Yu-Chen Ou (2019). A simplified finite element analysis method for axial compression behavior of rectangular concrete columns with interlocking multi-spiral reinforcements. *Journal of Structural Engineering, ASCE*, 146(1): 04019176
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專利

專利名稱	國別	專利號碼	發明人	專利權人	專利期間	國科會計畫編號
風力輔助的溫溼度調節裝置	中華民國	I 346266	王安邦、李佳峯蔡文欽、林怡君路非遙、陳志傑呂良正、陳俊杉施文彬	國立臺灣大學	2011..08.01～2027.10.29	NSC94-2218-E-002 -073 -;NSC95-2218-E-002 -037 -;NSC96-2218-E-002 -006 -

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Concrete Materials, Fiber Reinforced Composites,Fracture Mechanics

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Post-tensioned Precast Concrete Bridges and Steel Buildings, Field Blast Test for

Structures, Seismic Assessment and Rehabilitation of Structures

期刊論文 (Journal Paper)

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1. Pham, D. H., Chou, C. C.* (2019). “Strong-Axis Instability of Sandwiched Buckling Restrained Braces in a Steel Two-Story X-BRBF: Tests and Finite Element Analyses. ***Thin-Walled Structures*** (5-Year IF= 3.583, IF=3.488SCI, EI, in reviewing)
2. Chou, C. C.*, Tseng, W. H., Huang, C. H., Tsuang, S., Chang, L. M., Chen, Y. H. (2019). “Development and Validation Testing of a Steel Lever Viscoelastic Wall with Amplified Damper Force and Friction for Wind and Seismic Resistance. ***Engineering Structures*** (5-Year IF= 3.345, IF=3.084, SCI, EI, in re-reviewing, **2018 臺灣國際創新發明暨設計競賽金牌獎，臺灣知識創新學會及國立臺南大學所主辦**)
3. Chou, C. C.*, Hsiao, C. H, Chen, Z. B, Chung, P. T, Pham, D. H. (2019). “Seismic Loading Tests of Full-scale Two-story Steel Building Frames with Self-centering Braces and Buckling-restrained Braces. ***Thin-Walled Structures***, 140, 168-181. (5-Year IF= 3.583, IF=3.488, SCI, EI, **2019 台灣創新技術博覽會傑出發明館,經濟部智慧財產局主辦**)
4. Chou, C. C.*, Wu S. C. (2019). “Cyclic Lateral Load Test and Finite Element Analysis of High-strength Concrete-filled Steel Box Columns under High Axial Compression. ***Engineering Structures,*** 189(15), 89-99. (5-Year IF= 3.345, IF=3.084, SCI, EI)
5. Chou, C. C.*, Beato Ovalle, R.A. (2018). “Gusset Design Considering Buckling Forces in Frame and Brace Action Directions: Test and Finite Element Analysis of a Self-Centering

Braced Frame for Verification" ***Engineering Structures,*** 173, 643-655. (5-Year IF= 3.345, IF=3.084, SCI, EI)

6. Chou, C. C.*, Lee, C. S., Wu, K. Y., Chin, V. L. (2018). "Development and Validation of a FRP-Wrapped Spiral Corrugated Tube for Seismic Performance of Circular Concrete Columns" ***Construction and Building Materials***, 170, 498-511 (11/125, 5-Year IF=4.685, IF=4.046, SCI, EI)（中華民國尖端材料技協會106年度學生論文比賽產品創新競賽組特優獎）

7. Wang, J. F.*, Li, B. B., Chou, C. C., Chen, L, (2018). "Cyclic Experimental and Analytical Studies of Buckling-Restrained Braces with Various Gusset Connections". ***Engineering Structures,*** 163, 38-50. (5-Year IF= 3.345, IF=3.084, SCI, EI)

8. Chou, C. C.*, Tsai, W. J., Chung, P. T. (2016). "Development and Validation Tests of a Dual-Core Self-Centering Sandwiched Buckling-Restrained Brace (SC-SBRB) for Seismic Resistance." ***Engineering Structures***, 121, 30-41. (20/126, 5-Year IF= 2.637, SCI, EI, Times Cited =20 (Google) , 2016台北國際發明暨技術交易展金牌獎（22國參展、超過1,300項專利技術作品）

9. Chou, C. C.*, Chung, P. T., Wu, T.H., Beato Ovalle, R.A. (2016). "Validation of a Steel Dual-Core Self-Centering Brace (DC-SCB) for Seismic Resistance: from Brace Member to One-Story One-bay Braced Frame Tests." ***Frontiers of Structural and Civil Engineering,*** 10, 1-9, online August 10 2016 **(**90/134, SCI, EI, IF=1.272, **Invited Paper).**

10. Chou, C. C.*, Chung, P. T., Cheng, Y. T. (2016). "Experimental Evaluation of Large-Scale Dual-Core Self-Centering Braces and Sandwiched Buckling-Restrained Braces." ***Engineering Structures,*** 116, 12-25. (5-Year IF= 3.060, IF=2.755, SCI, EI, Times Cited =21)

11. Chou, C. C.*, Wu, T. H., Beato Ovalle, R.A., Chung, P. T., Chen, Y. H. (2016). "Seismic Design and Tests of a Full-Scale One-Story One-Bay Steel Frame with a Dual-Core Self-Centering Brace." ***Engineering Structures***, 111, 435-450 (5-Year IF= 3.060, IF=2.755, SCI, EI). (2017 韓國首爾國際發明展金牌獎及特別獎(30 國參展、632 件專利作品**,** Times Cited =26）

12. Hou, H.T., Chou, C. C.*, Zhou, J., Wu, M. L., Liu, H. N., Li, J. J., Ye, H. D. (2016). "Cyclic Tests of Steel Frames with Composite Lightweight-Infill Walls." ***Earthquakes and Structures, An International Journal***, 10(1), 163-178 (SCI, EI, Times Cited =4)

13. Chou, C. C.*, Chen, Y. C. (2015). "Development of Steel Dual-Core Self-Centering Braces: Quasi-Static Cyclic Tests and Finite Element Analyses" ***Earthquake Spectra***, 31(1), 247-272. (2/35, 5-Year Impact Factor=2.467, Impact Factor=2.981, ENGINEERING, GEOLOGICAL, SCI, EI, 2015台北國際發明暨技術交易展鉑金獎, 2018經濟部國家發明創新金牌獎**,** Times Cited =32 (Google))

14. Yeh, F. Y., Chang, K. C., Sung, Y. C.*, Hung H. H., Chou, C. C. (2015). "A Novel Composite Bridge for Emergency Disaster Relief: Concept and Verification" ***Composite Structures***, 127, 199-210. (5-Year Impact Factor=3.442, Impact Factor=3.12, MATERIALS SCIENCE, COMPOSITES, SCI, EI, Times Cited =8)

15. 李中生，周中哲*，譚皓祥， 陳威霖(2019)「玻璃纖維包覆加勁螺紋管圍束混凝土軸壓力學模型與試驗」，結構工程 (2019/11 under review)。

16. 周中哲*，鍾秉庭，粘評，陳威霖，劉郁芳，柯鎮洋，王志誠，陳景誠(2019)「板橋浮洲新建高層住宅結構補強實驗及 ETABS 非線性動力耐震評估」，結構工程(accepted for publication)。

17. 周中哲*，汪家銘，黃漠見(2019) 「地牛翻身也不怕-大橋抗震新標竿」，科學月刊 12 月號第 600 期，62-65 頁。(前瞻未來專欄)

18. 周中哲*，林德宏(2019) 「懸吊拱橋的結構與破壞緣由」，科學月刊 11 月號第 599 期，12-13 頁 。(思辨之評)

19. 周中哲*，蔡文璟，鍾秉庭 (2019)「鋼造自復位挫屈束制斜撐(SC-SBRB)發展及耐震試驗」，結構工程，第三十四卷，第一期，57-76 頁 。

20. 周中哲*，曾冠霖，凌郁婷(2018)「新竹科學園區 1990 年代之十層樓鋼構造標準廠房微振動長期監測及耐震能力評估」，結構工程，第三十三卷，第一期，5-27 頁 。

21. 周中哲*，蕭佳宏，陳澤邦，鍾秉庭，范廷海(2017)「全尺寸二層樓雙核心自復位斜撐構架與夾型挫屈束制斜撐構架之耐震試驗與非線性動力歷時分析」，結構工程，第三十二卷，第二期，35-64 頁(in Chinese)。**(2017 韓國首爾國際發明展金牌獎及特別獎(30 國參展、632 件專利作品)**

22. 周中哲*，吳松城(2017)「高強度混凝土充填箱型鋼柱於高軸力下之耐震試驗」，結構工程，第三十二卷，第一期，25-48 頁(in Chinese)。

23. 周中哲*，吳愷毅，李中生(2016)「玻璃纖維包覆螺紋管圍束無箍筋之鋼筋混凝土圓柱發展與耐震試驗」，結構工程，第三十一卷，第二期，71-90 頁(in Chinese)。**(中華民國尖端材料技協會 106 年度學生論文比賽產品創新競賽組特優獎)**

24. 周中哲*，鍾秉庭，鄭宇岑(2016)「全尺寸雙核心自復位斜撐及夾型挫屈束制斜撐耐震試驗」，結構工程，第三十一卷，第一期，93-111 頁(in Chinese)。

25. 周中哲*，吳宗翰，陳澤邦，陳映全，Alexis Rafael Ovalle Beato，鍾秉庭(2015)「創新鋼造雙核心自復位斜撐抗震構架於臺灣的發展:由斜撐至實尺寸構架實驗驗證」，鋼結構工程，第 55 期，54-76 頁(in Chinese，**中華民國鋼結構協會第 5 屆徵文比賽得獎文章**)。

26. 周中哲*，鍾秉庭，吳宗翰，陳澤邦，蕭佳宏，D.H. Pham，Alexis Rafael Ovalle Beato (2015)「鋼造夾型挫屈束制斜撐及雙核心自復位斜撐構架耐震設計及實驗」，土木水利，第四十二卷，第二期，61-71 頁(in Chinese，**Invited Paper**)。

27. 宋裕祺*，葉芳耀，洪曉慧，張國鎮，尹世洵，邱毅宗，許哲愷，李政寬，周中哲，劉楨業，莊瑞彰，潘威佑(2015)「救災用鋼與玻璃纖維複合材料非對稱斜張橋之研究與開發」，結構工程，第三十卷，第一期，53-92 頁(in Chinese)。(**2016 中華民國結構工程學會工程論著獎)**

研討會文章(Conference Paper)

1. Lin, T. H., Chou, C. C., Chen, G. W. (2020). A Seven-Story Steel BRBF under Far-Field and Near-Fault Earthquakes: Loading Protocols and Seismic Tests of Columns. ***8th International Conference on Advances in Experimental Structural Engineering,*** February 3-5, Christchurch, New Zealand. **(Invited Speaker for Special Session)**

2. Chou, C. C., Huang, C. H., Tseng W. H., Tsuang S., Chang, L. M., Chen, Y. H., (2019). Development and Seismic Tests of a Novel Steel Lever Viscoelastic Wall with Friction as a Seismic-Resisting Damper. ***12th Pacific Structural Steel Conference***, NOVEMBER 9 -11, TOKYO, JAPAN.

3. Chou, C. C., (2019). Seismic Design and Validation of Steel Braced Frames: Buckling-Restrained Brace and Self-Centering Brace. ***University of Michigan, Ann Arbor***, October 2-3, USA. **(Invited Speaker)**

4. Pham, D. H. and Chou, C. C. (2019). Test of a Full-Scale Two-Story Steel X-BRBF: Strong-Axis Instability of Buckling Restrained Brace Associated with Out of-Plane Bending of Gusset Connection. ***Proceedings of the International Conference on Sustainable Civil Engineering and Architecture,*** October 24-26, Ho Chi Minh, Vietnam.

5. Chou, C.C., Lin, T. H., Xiong, H. C., Lai, Y. C., Uang, C. M., El-Tawil, S., McCormick, J. P., Mosqueda G. (2019). "US-Taiwan Collaborative Research on Steel Columns: Cyclic Lateral Testing of Two-Story Subassemblages", ***NRC-MOST/NCREE Taiwan Workshop on Earthquake Engineering Technologies***, 7-8 October 7-8, Ottawa, Canada. **(Invited Speaker)**

6. Chou, C. C., Lin, T. H., Xiong, H. C., Lai, Y. C., Uang, C. M., El-Tawil, S., McCormick, J. P., Mosqueda G. (2019). "US-Taiwan Collaborative Research on Steel Columns: Cyclic Testing of Two-Story Subassemblages", ***International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake***. Taiwan. Sep. 15-19.

7. Chou, C. C., Chung, P. T., Ling, Y. T., Huang, C. H., Tseng, W. H., Tsuang, S., Chang, L. M., Chen, Y. H. (2019). "Development and Validation of Seismic-Resisting Dampers: Buckling-Restrained Brace, Self-Centering Brace and Lever Viscoelastic Wall Device", ***International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake***. Taiwan. Sep. 15-19.

8. Lin T. H., Chou, C. C., Chen, G. W. (2019). "A Seven-Story Steel Braced Frame under Far-Field and Near-Fault Earthquakes: Loading Protocol and Seismic Test of High-Strength Steel H-Shaped Columns", ***International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake***. Taiwan. Sep. 15-19.

9. Chou, C. C., Kuo, M. C. (2019). "Seismic Test and Analysis of Wind-Turbine Hollow Steel Round Columns with a Large Diameter-to-Thickness Ratio", ***International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake***. Taiwan. Sep. 15-19.

10. Lee, C. S., Chou, C. C., Tan, H. H., Wu, K. Y., Chen, V. L. (2019). "Mechanical Response of Concrete-Filled FRP-Wrapped Steel Corrugated Tube Column", ***International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake***. Taiwan. Sep. 15-19.

11. Liu, J. H., Chang, Y. C., Chou, C. C., Chung, P. T. (2019). "Design and Application of SBRB Frames for Steel Tall Buildings in Taiwan: Brace Orientation and Connection", ***International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake***. Taiwan. Sep. 15-19.

12. Liu, Y. F., Lin, J. L., Chou, C. C., Weng, Y. T., Chao, S. H., Kuo, C. H. (2019). "Analytical Modeling of a Half-Scale Seven Story Reinforced Concrete Building Shaken Near-Fault Earthquake Motions", ***International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake***. Taiwan. Sep. 15-19.

13. Chou, C. C. (2018). "Smart Monitoring and Earthquake Reduction Technologies for High-Tech Fabs", ***SEMICON Japan***, 13-14 December 2018, Tokyo, Japan. **(Invited Speaker)**

14. Chou, C. C., Wu, S. C. (2018). "Test and Finite Element Analysis of High-Strength Concrete Filled Steel Box Columns under Combined High-Axial Load and Cyclic-Lateral Load", ***Proceedings of the Ninth International Conference on Advances in Steel Structures (ICASS'2018)***, 5-7 December 2018, Hong Kong, China.

15. Pham, D. H. and Chou, C. C. (2018). "Stability of Sandwiched Buckling Restrained Brace in Full-Scale Two-Story X-BRBF Tests", ***7th International Doctoral Symposium***, November 19-21, Sapporo Japan. **(Funded by Hokkaido University)**

16. Chou, C. C., Hsiao, C. H., Chen, Z. B., Chung, P. T., Pham, D. H. (2018). "Seismic Tests of Full-Scale Two-Story Steel Frames with Self-Centering Braces and Buckling-Restrained Braces", ***Proceedings of the 11th National Conference on Earthquake Engineering***, Earthquake Engineering Research Institute, Los Angeles, CA.

17. Weng, Y. T., Jhuang, S. J. and Chou, C. C. (2018). "Analytical studies of a half-scale 3-story non-seismic detailing reinforced concrete building shaken to near-fault earthquakes", ***Proceedings of the 11th National Conference on Earthquake Engineering***, Earthquake Engineering Research Institute, Los Angeles, CA.

18. Shen, W. C. Hsiao, F. P., Weng, P. W., Li, Y. A., Chou, C. C., Chung, L. L. (2018). "Seismic Tests of a Mixed-Use Residential and Commercial Building Using a Novel Shaking Table". ***Proceedings of the 11th National Conference on Earthquake Engineering***, Earthquake Engineering Research Institute, Los Angeles, CA.

19. Chou, C. C. (2018). "Collaboration Research at NTU: Example of Earthquake Engineering", ***The 8th Asian Engineering Deans' Summit***, Tokyo Institute of Engineering, Tokyo, Japan. **(Invited Speaker)**

20. Chou, C. C. (2018). "Self-Centering Structures: from Member to System Level Development and Validation", ***Meijo Science Technology Seminar***, Meijo University, Nagoya, Japan. **(Invited Speaker)**

21. Pham, D. H., Chou, C. C. (2017). Stability of Sandwiched Buckling Restrained Braces in Full-Scale Two-Story Steel X-BRBF Tests. ***The Thirtieth KKHTCNN Symposium on Civil Engineering***, November 2-4, Taipei.

22. Chou, C. C. (2017). Smart Monitoring and Earthquake Reduction Technologies for High-Tech Fabs. ***High-Tech Facility International Forum of SEMICON Taiwan 2017***, September 14th, Taipei. **(Keynote Speech)**

23. Capart, H., Chou, C. C., Kuo, P. H., Yu, W. L., Hsu, T. H., Hsieh, S. H., Lu, L. H., Tomita, M. (2017). Education of future builders through footbridge design to construction projects. ***6th International Footbridge Conference***, September 6-8, Berlin.

24. Chou, C. C., Lee, C. S., Wu, K. Y., Chin, V. L. (2017). Development of a FRP-Wrapped Spiral Corrugated Tube for Seismic Performance of Reinforced Concrete Columns. ***2017 International Conference on Earthquakes and Structures***, Aug. 28-Sep. 1, Seoul, Korea.

25. Chung, P. T., Chou, C. C. (2017). Seismic test and finite element analysis of a high-performance dual-core self-centering brace with a friction gusset connection. ***2017 International Conference on Earthquakes and Structures***, Aug. 28-Sep. 1, Seoul, Korea.

26. Chou, C. C., Lee, C.S., Wu, K.Y. and Chen, V. L. (2016). Seismic tests of reinforced concrete columns confined with a FRP-wrapped spiral corrugated tube (FWSCT). ***18th Japan-Korea-Taiwan Joint Seminar on Earthquake Engineering for Building Structures***, December 2-3, Tainan, Taiwan.

27. Chen C., Gong H., Chou, C. C. (2015). Seismic behavior and application of buckling-restrained braces in China and Taiwan. ***14th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures***, September 9-11, San Diego, USA.

28. Chou, C. C., Sun, P. F., Chang, K. C., Yeh F. Y. (2015). Structural testing and behavior of multi-bolted joints in pultruded fiber reinforced polymer (FRP) I-Beams. ***17th***

Japan-Taiwan-Korea Joint Seminar on Earthquake Engineering for Building Structures, September 18-19, Japan.

29. Chou, C. C., Chung, P.T., Wu, T.H., Beato Ovall, R.A. (2015). Development and validation of a steel dual-core self-centering brace for seismic resistance: from brace member to one-story one-bay braced frame tests. ***8th International Conference on Behavior of Steel Structures in Seismic Areas***, July 1-3. Shanghai, China.

30. 周中哲(2019)「長週期脈衝地震與自復位結構」，台科大高階科技研發碩士學程，5 月 18 日，臺北市**(Invited Speaker)**

31. 周中哲，鍾秉庭，粘評，陳威霖，劉郁芳，柯鎮洋，王志誠，陳景誠(2019)「板橋鋼筋混凝土高層建築鋼構件補強效益:實驗及 ETABS 非線性動力分析」，2019 高層建築發展及補強研討會，臺北市

32. 周中哲，萬家汶，鍾秉庭(2018)「含消能鋼筋之自復位斜撐發展及試驗驗證」，中華民國第 14 屆結構工程及第 4 屆地震工程研討會，11 月 6~8 日，臺中市

33. 周中哲，曾文豪，黃俊翔 ，曾冠霖 (2018)「新槓桿黏彈制震壁的研發及試驗」，中華民國第 14 屆結構工程及第 4 屆地震工程研討會，11 月 6~8 日，臺中市

34. 周中哲，鍾秉庭， 陳威霖，粘評(2018)「板橋浮洲高樓層住宅全尺寸補強構件試驗」，中華民國第 14 屆結構工程及第 4 屆地震工程研討會，11 月 6~8 日，臺中市

35. 周中哲，吳松城，吳愷毅，陳威霖，李中生(2018)「鋼與混凝土複合柱於高軸力下抗震實驗」，第 16 屆結構穩定與疲勞學術交流會暨教學研討會，8 月 25-28 日，青島，中國**(Invited Speaker**，in Chinese**)**

36. 周中哲(2018)「鋼造建築構架靜態載重與震動台試驗：自復位斜撐與挫屈束制斜撐對構架抗震影響」，第六屆土木工程結構試驗與檢測技術暨結構實驗教學研討會，8 月 2~4 日，北京，中國**(Invited Speaker**，in Chinese**)**

37. 周中哲，凌郁婷，曾冠霖，鍾秉庭(2017) 「新竹科學園區鋼構造廠房微振動監測及抗震能力評估」，第七屆全國結構抗振控制與健康監測學術會議，11 月 10~12 日，武漢市**(Invited Speaker**，in Chinese**)**

38. 李中生，周中哲，陳威霖，吳楷毅(2017) 「玻璃纖維包覆加勁金屬螺紋管圍束混凝土行為研究」，2017 創新鋼構造耐震技術研討會，9 月 29，台北市

39. 周中哲，鍾秉庭，凌郁婷，鄭宇岑，劉佳豪，張盈智(2017) 「夾型挫屈束制斜撐與自復位斜撐構架設計與試驗:新竹廠房案例」,2017 創新鋼構造耐震技術研討會,9 月 29，台北市

40. 周中哲,吳松城(2017)「高強度混凝土充填 SM570M 箱型鋼柱於高軸力下之耐震行為」，2017 創新鋼構造耐震技術研討會，9 月 29，台北市

41. 周中哲(2017)「預力組裝之鋼造建築抗震設計與實驗性能」，第四屆全國金屬減震技術研討會及 2017 中國南通裝配式建築暨金屬減震產業發展人才峰會，8 月 16-18 日，南通，中國**(Keynote Speaker**，in Chinese**)**

42. 周中哲，鍾秉庭，蔡文璟，陳澤邦，蕭佳宏(2016)「自復位抗震斜撐系統發展:由 DC-SCB 與 SC-SBRB 至全尺寸二層樓構架實驗」，第九屆全國防震減災工程學術研討會，10 月 27-29 日，合肥，中國**(Keynote Speaker**，in Chinese**)**

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44. 周中哲，李中生，陳威霖，吳愷毅(2016)「玻璃纖維包覆螺紋管圍束無箍筋之圓形橋柱剪力設計與試驗驗證」，第十三屆結構工程研討會暨第三屆地震工程研討會，8 月 24~26 日，桃園，台灣(in Chinese)

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專利技術移轉

技術名稱	專利名稱	授權單位	被授權單位	簽約日期	技轉金額	科技部計畫編號
槓桿粘彈制震裝置	制震裝置	臺大	台灣高科技生產環境顧問股份有限公司	2016/1	五十萬元 整	102-17-A-15-S1-223 103-2119-M-002-010
夾型挫屈束制消能斜撐	夾型挫屈束制消能斜撐	臺大	鴻舜機械有限公司	2016/6	三十萬元 整	98-2625-M-002-017 100-2625M-002-012
拆解式夾型鋼骨挫屈束制消能支撐裝置	夾型挫屈束制消能斜撐	臺大	東鋼鋼結構股份有限公司	2017/9	六十萬元 整	98-2625-M-002-017 100-2625M-002-012
拆解式夾型鋼骨挫屈束制消能支撐裝置	夾型挫屈束制消能斜撐	臺大	長榮鋼鐵股份有限公司	2018/9	一百一十萬元 整	98-2625-M-002-017 100-2625M-002-012

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專長/ 鋼筋混凝土結構 (RC 結構)、預力混凝土結構 (PC 結構)、地震工程、橋梁工程

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5.Wang, P.H., Chang, K.C., Yin, S.Y.L., Wang, J.C., Ou, Y.C. (2019). A simplified finite element analysis method for axial compression behavior of rectangular concrete columns with interlocking multi-spiral reinforcements. *Journal of Structural Engineering, ASCE*. (In Press) (SCI)

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High Performance Concrete, Fiber Reinforced Concrete, Reinforced Concrete, Seismic Resistant RC Structure Design

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期刊論文 (Journal Paper)

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47. 江和峰、**張家銘**、周肇昱，2018，「基於第一模態振形之結構損傷診斷方法比較」，第十四屆結構工程及第四屆地震工程研討會，臺中，臺灣，6-8 Nov.

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技術報告

1. 葉芳耀、張國鎮、康世仲、**張家銘**、楊耀畬（2018）救災型輕便橋自動化組裝系統與創新商業模式之開發，107 年科技部補助專題研究計畫成果報告，計畫編號：MOST 107-2119-M-492-004 -

2. 林子剛、羅俊雄、吳文華、**張家銘**、許丁友、于思婷、余以諾、周肇昱、林又、梁家瑋、郭采蓉、陳羿文、陳瑋縉、蔡易哲、蕭迦恩（2018）地震防災監測預警技術研發與測試(III)，107 年科技部補助專題研究計畫成果報告，計畫編號：107-3011-F-009 -003 –

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5. 張國鎮、黃震興、柯鎮洋、汪向榮、**張家銘**、楊卓諺、游忠翰、黃謝恭、邱宜甄（2018）臺北小巨蛋演唱會振動對結構影響及改善之可行性評估，臺北市政府工務局新建工程處委託財團法人國家實驗研究院國家地震工程研究中心評估報告書

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7. 林子剛、溫國樑、羅俊雄、吳文華、**張家銘**、許丁友、林哲民、黃雋彥、呂學敏、吳宛庭、簡義修、林又、陳羿文、梁家瑋、薛汶、涂雅瀞、黃昱婷、周哲瑋、于思婷、周肇昱（2017）地震防災監測預警技術研發與測試(II)，106 年科技部補助專題研究計畫成果報告，計畫編號：106-3011-F-009 -003 -

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11. 羅俊雄、**張家銘**、黃謝恭、陳沛清、林沛暘（2016）以磁流變阻尼器降低曝光機於地震時反應之研究，台灣積體電路製造股份有限公司委託財團法人國家實驗研究院國家地震工程研究中心研究計畫成果報告書

專利

1.張家銘、楊卓諺、黃謝恭、徐振豪，「垂直向隔振系統」，臺灣發明專利：107130039，美國發明專利：16/266618，申請中

2.張家銘、黃謝恭、楊卓諺，「幾何非線性隔振系統」，臺灣發明專利：107129527，美國發明專利：16/259318，申請中

3.康仕仲、張家銘、楊耀畬、陳鵬元，「起重機負載之減盪系統」，臺灣發明專利：I671256 (已獲得)；中國發明專利：201811010043.2，申請中

技術移轉

1.「應用加速度資訊進行建築震後快速安全診斷技術」，國立臺灣大學研究成果技術移轉

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Steel Structure、Earthquake Resistance Design、Structural Collapse Simulation、
Seismic Loss Assessment

期刊論文

1. Omar A. Sediek; Tung-Yu Wu; Jason McCormick; Sherif El-Tawil (2019, Nov). Collapse Behavior of HSS Columns Under Combined Axial and Lateral Loading. *Journal of Structural Engineering*. (Accepted).
2. Tung-Yu Wu; Sherif El-Tawil; Jason McCormick (2019, Oct). Effect of cyclic flange local buckling on the capacity of steel members. *Engineering Structures*, 200. 本人為第一作者、通訊作者.
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1. Omar A. Sediek; Tung-Yu Wu; Jason McCormick; Sherif El-Tawil (2019, Sep). Seismic behavior of HSS columns under lateral loading. International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake, Taipei, Taiwan.
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Stochastic Hydrology, Stochastic Hydraulics, Computational Hydraulics

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2. Chang MJ, Lin GF, 2014.07, A modified statistical downscaling model of daily precipitation, The 11th Annual Meeting of the Asia Oceania Geosciences Society (AOGS 2014), Sapporo, Japan. (Best Student Poster Award)
3. Lin GF, Jhong BC, 2014.07, Hourly typhoon rainfall forecasting using meteorological data through the integration of multi-objective genetic algorithm and support vector machine, The 11th Annual Meeting of the Asia Oceania Geosciences Society (AOGS 2014), Sapporo, Japan.
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7. Huang CC, Lai JS, Lee FZ, Kang SY, Shih SS, Hwang GW, Lin GF, 2014.08, Long-term effects of river bed variations downstream of the Shihmen reservoir due to climate change, Proceedings of the 11th International Conference on Hydroinformatics, Paper 364, New York City, USA.
8. Lin JT, Lin GF, Huang CC, Kang SY, Lee FZ, Lai JS, Chou JH, 2014.10, The influence of reservoir desiltation on the river bed downstream of the desilting tunnel, The 18th Cross-Strait Symposium on Hydraulic Technology Exchange, Xi'an, China. (in Chinese)
9. Ho, JY, Lee, KT, Chen, YC, Hwang, GD, Yang, TH, Lin, GF, 2015.04, Evaluating the long-term performance for rainfall-induced shallow landslides prediction using a physically-based model in Taiwan, European Geosciences Union General Assembly, Vienna, Austria.
10. Lin, GF, 2015.04.15, Real-time urban flood forecasting during typhoons, The 7th World Water Forum, Science and Technology Process Session 3.3: Flood Damage Reduction in Urban Area by Improvement of Flood Forecasting, Daegu, Korea. (Invited Lecture)
11. Chang MJ, Lin GF, Wu JT, 2015.05, Effects of climate change on daily rainfall in the Taiwan: a new statistical downscaling method, The 2015 International Workshop on Typhoon and Flood – APEC Experience Sharing on Hazardous Weather Events and Risk Management, Taipei, Taiwan. (Student Poster Competition: Third Place, Hydrological Science-PhD Students Division)
12. Huang YC, Lin GF, Chang MJ, 2015.05, Landslide susceptibility mapping methodologies for Kaoping river basin, Taiwan, The 2015 International Workshop on Typhoon and Flood – APEC Experience Sharing on Hazardous Weather Events and Risk Management, Taipei, Taiwan. (Student Poster Competition: Third Place, Hydrological Science-Master's Students Division)
13. Wang JH, Lin GF, Jhong BC, 2015.05, Effective real-time inundation depth forecasting during typhoon periods, The 2015 International Workshop on Typhoon and Flood – APEC Experience Sharing on Hazardous Weather Events and Risk Management, Taipei, Taiwan.

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17. Lin GF, 2015.10.24, The use of ensemble precipitation forecasts and a rainfall-runoff model for hourly reservoir inflow forecasting during typhoon periods, International Conference on Sustainable Utilization and Protection of Water Resources under Changing Environment, Guangzhou, China. (Keynote Lecture)
18. Lin GF, 2015.10.28, Development of a real-time typhoon flood forecasting model, 2015 CHES Annual Conference: International Session, Nanjing, China. (Keynote Lecture)
19. Lin JT, Lin GF, Lai JS, Huang CH, Lee FZ, Huang CC, Huang GW, 2015.10, The field measurement of 52-Jia Wetland during a tide cycle using ADCP, The 19th Cross-Strait Symposium on Hydraulic Technology Exchange, Shanghai, China. (in Chinese)
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21. Lin GF, Wang JH, Chang MJ, 2015.12, Assessing the impact of climate change on rainfall in Taiwan, Proceedings of the 2015 Symposium of the Agricultural Environment Technology Projects, Council of Agriculture. (in Chinese)
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3. 林國峰, 2014.12, 因應糧食安全之農業水資源經營策略－氣候變遷下高屏溪流域水源風險評估(2), 農委會研究計畫報告, 國立台灣大學土木工程學系.
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10. 林國峰, 2017.12, 水稻節水技術應用推廣及農業水資源管理之研究－氣候變遷對石門水庫集水區降雨之衝擊評估, 農委會研究計畫報告, 國立台灣大學土木工程學系.
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River Hydraulics, Mechanics of Sediment Transport,Fluid Mechanics

期刊論文

1. Y.C. Chen, K.T. Chang, H.Y. Lee, S.H. Chiang, (2014)," Average landslide erosion rate at the watershed scale in southern Taiwan estimated from magnitude and frequency of rainfall.", Geomorphology, Volume 228, Pages 756–764, 1 January 2015 (SCI)

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1. 李鴻源，2014，「台灣如何成為一流國家」，時報出版，280 頁，台灣。(ISBN：9789571361529)
2. 李鴻源，2015，「記那些波光與映像：李鴻源人生隨筆」，時報出版，256 頁，台灣。(ISBN：9789571362786)

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1. 李鴻源、徐硯庭、何媚華，2014，「新北市中永和地區都市化過程對逕流影響之研究」，科技部。(The Influences of Urbanization on runoff generation in the Yonghe and Jhonghe Districts, New Taipei City)
2. 李鴻源、莊孟儒、周立生、鄭傳謙、劉時宏，2015，「多期測繪資料同化與加值服務應用之探討 -以茅濃溪流域為例」，科技部。
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7. 李鴻源、張倉榮、賴進松、譚義績、林志平，2018、「水庫庫容永續技術之研發應用-水庫庫容永續技術之研發應用(2/3)」，科技部。

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1. Lin, M.Y., Huang, H.M. and Huang, L.H., 2014, Tilting while lifting a large object from a rigid porous seabed, Journal of Engineering Mechanics, ASCE, 140, 04014004-1 – - 04014004- 12. (SCI, EI) [NSC97-2221-E002-248-MY2]
2. Chang, K.H., Lin, M.Y. and Huang, L. H., 2015, Modified Lagrangian Vortex Method with Improved Boundary Conditions for Water Waves past a Thin Bottom-standing Barrier, International Journal for Numerical Methods in Fluids, 77, 183-205. (SCI, EI) [NSC100-2221-E002-019, and NSC100-2811-E002-047]
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1. Chang, H.Y., Huang, L.H., Lin, M.Y. and Chang, K.H., 2014, Flow behavior around a coated pipeline embedded partly in a permeable seabed, Proceedings of the 11th International Conference on Hydrodynamics, Singapore, Oct.19 – 24.
2. Wang, Y.H., Jan, J.F., Chang, C.W., Huang, L.H. and Young, C.C., 2015, A mountainous groundwater flow model, Proceedings of the 5th International Conference on Engineering and Applied Science, Sapporo, Japan, July 20 – 22.
3. Hsiao, Fu-Cheng and Huang, L.H., 2016, Analytical method of linear viscous water wave applied to flap type wave-maker, Proceedings of the 38th Ocean Engineering Conference in Taiwan, ROC, Taipei, Taiwan, Dec. 8-9 (in Chinese).
4. Lin, Y.H. and Huang, L.H., 2018, Exploring the adhesive approximate solution of lift-up

problem with a rigid impermeable bed, proceedings of the 13th International Conference on Hydrodynamics, Incheon, Korea, Sep. 2 – 6.

5. Hsiao, F.C., Huang, L.H. and Lin, M.Y., 2018, Analytical method for linear viscous water wave applicable to a flat-type wave maker, proceedings of the 13th International Conference on Hydrodynamics, Incheon, Korea, Sep. 2 – 6.

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1. Lin, C.P., Huang, L.H. and Hsieh, D.Y., 2014, The implementation of observation and measurement system of sediment transport and the related applications in Nan-Hua Reservoir (1/2), Report of Taiwan Water Corporation (in Chinese).
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4. Huang, L.H., 2014, A review on hot spring development and utilization, Report of Water Resource Bureau, Ministry of Economic Affairs (in Chinese).
5. Huang, L.H. and Lin, M.Y., 2015, The study of a remedy for piping of underwater pipelines, Report of Ministry of Science and Technology, MOST103-2221-E-002-224 (in Chinese).
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8. Tsai, Tung-Lin, Huang, L.H. and Wu, Shiang-Jen, 2016, The construction and application of the numerical model of land subsidence due to loading or groundwater pumping, Report of Water Resource Bureau, Ministry of Economic Affairs MOEWRA1050211 (in Chinese).
9. Huang, L.H., 2017, The study of saltwater intrusion of groundwater(1), Report of Ministry of Science and Technology, MOST105-2221-E002-086 (in Chinese).
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1. Huang, L.H., Lin, M.Y., Chang, Hsin-Yu and Lai, Bo-Yuan, 2016, Simulation method of piping prevention

指導獲獎論文

Supervised PhD Theses

1. Chang, Cheng-Wei (張正緯), 2018, The study of seawater intrusion of groundwater, PhD thesis, Department of Civil Engineering, National Taiwan University (in Chinese).
2. Yang, Fang-Po-Yuan (楊方泊源), 2018, The study on the method of optimal operation of

self-purification for a tidal river in dry seasons, PhD thesis, Department of Civil Engineering, National Taiwan University (in Chinese).

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1.Chang, Yun (張雲), 2014, Analytical solutions to the vertical lifting of a submerged rectangular block, MS thesis, Department of Civil Engineering, National Taiwan University.

2.Chen, Hsiao-Ching (陳曉慶), 2014, The study of the dividing wall for a merged flow of two open channels, Department of Civil Engineering, National Taiwan University (in Chinese).

3.Koh, Yen-Hui (高延輝), 2015, Development of BEEMD based smoothing algorithm for topography and a 2D cell based flood inundation model, Department of Civil Engineering, National Taiwan University.

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5.Hsiao, Fu-Cheng(蕭輔誠), 2016, Analytical method of linear viscous water wave applied to flap type wave-maker, Department of Civil Engineering, National Taiwan University (in Chinese).

6.Wei, I-Fan (衛亦凡), 2016, Groundwater floe analysis and computation for zones of large hydrodynamic conductivity difference, Department of Civil Engineering, National Taiwan University (in Chinese).

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1. Huang, L.H., Lin, M.Y., Chang, Hsin-Yu and Lai, Bo-Yuan, 2016, Simulation method of piping prevention.

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1. Lin, Yu-His, 2017, Par1. Improvement of vortex experiment, Part 2. The flow behavior resulting from a plane revolving between two concentric cylinders, 3rd place, The 2017 Bachelor Degree Thesis Award of NTU.

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Debris Flow, Environmental Fluid Mechanics, Wave Dynamics

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1. Wu,Y.H., Liu, K.F. and Chen, Y.C. 2013 Comparison between FLO-2D and Debris-2D on the application of assessment of granular debris flow hazards with case study. Journal of Mountain Science, Vol. 10(2): 293-304 (SCI, IF=1.000) Ci=11
2. Liu, K.F., Wu, Y.H. and Chen, Y.C. 2013 Large scale simulation of watershed mass ransport – A case study of TsengWen watershed. Natural Hazards, Vol. 67 (2): 855-867. (SCI, IF=1.529) Ci=21
3. Li, H.-C., Liu, K.-F. and Hsu, Y.-C., 2013 Loss Curve Analysis of A debris Flow : A Case Study on The Daniao Tribe"Applied Mechanics and Materials Vols. 284-287, pp 1499-1510
4. Liu, K.F., Wei, S.C., Li, P.C. 2013 "The influence of accumulated precipitation on debris flow hazard area." Journal of Chinese Soil and Water Conservation, 44(3):225-233. (in Chinese)
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6. Wu, Y.H. and Liu, K.F. 2015"Start-up flow of a Bingham fluid between two coaxial cylinders under a constant wall shear stress" J. Non-Newtonian Fluid Mech. 223: 116-121, DOI: 10.1016/j.jnnfm.2015.06.002
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1. Liu, K.F., Hsu, Y.C., 2013 “TRIGRS and DEBRIS-2D in Large Scale Sediment Disaster Assessment: Applied in Daniao Tribe Watershed in Taiwan”, The 11th International Symposium on Mitigation of Geo-Disaster in Asia, 22-28 Oct. 2013, Kathmandu, Nepal. (Keynote)
2. Liu, K.F., Wu, Y.H. , 2013 “Calibration Formula of Rheological Parameters of Bingham Fluid in Couette Rheometer”, The 11th International Symposium on Mitigation of Geo-Disaster in Asia, 22-28 Oct. 2013, Kathmandu, Nepal.
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9. K.F. Liu, S.C. Wei, and P.C. Lee 2015 “Combined Different Techniques for Measuring the Rheological Parameters of Bingham Fluid.” The 13th International Symposium on Geo-disaster Reduction, 9-11 Aug. 2015, Prague, Czech Republic.
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11. Y.C. Hsu, K.F. Liu, M.P. Tsai, and S.C. Wei, 2015 “DEBRIS-2D Model Apply to Debris Flow Disaster Controlled - A Real Case at Songhe No.1 Creek in Central Taiwan” The 13th International Symposium on Geo-disaster Reduction, 9-11 Aug. 2015, Prague, Czech Republic.
12. K.F. Liu, and Jhan-Ming Jhou, 2015 “Mechanics analysis of tipping bucket rain gauge.” The 13th International Symposium on Geo-disaster Reduction, 9-11 Aug. 2015, Prague, Czech Republic.
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14. Chae, B.-G., Liu, K.-F., Choi, J., 2016, A study of landslide warning based on the RTI model in Korea, 2016 EGU General Assembly, Vienna, Austria, April 17-22, 2016
15. Liu, K.F., Wu, Y.H., 2016 “Large Scale Simulation of Watershed Mass Transport – a Case Study of Tsengwen Reservoir Watershed, Taiwan” The 7th International Conference on Water Resources and Environment Research (ICWRER2016), Kyoto TERRSA, Kyoto, Japan, June 5-9, 2016
16. Liu, K.F. Li, H.C. 2016, Social vulnerability index for natural disaster with case study for debris flows, Taiwan” The International Conference on Human Society and Culture (HSC2016), 8/19–21, Shenzhen, China (KeyNote)
17. Liu, K. F., and S. C. Wei. 2017. A Complete Watershed Monitoring System in Shenmu Village, Taiwan. The 11th Asian Regional Conference of IAEG, Nov. 28-30, 2017, Kathmandu, Nepal.
18. Wei, S. C., K. F. Liu, Y. M. Huang, and Y. M. Fang. 2017. Characteristics of Ground Vibration Signal Produced by Debris Flows at Ai-Yu-Zi Creek, Taiwan. The 11th Asian Regional Conference of IAEG, Nov. 28-30, 2017, Kathmandu, Nepal.

書（Books）

1. Kuo, Liu, Ko-Fei, Chyan-Deng Jan, Ping Sien Lin and Hsin-Chi Li, 2012 “Progress of Geo-Disaster Mitigation Technology in Asia : Chap 4: Advances of Geo-Disaster Mitigation Technologies in Taiwan” F. Wang et al. (eds.), pp:77-103, Springer
2. Su-Chin Chen, Ko-Fei Liu, Lien-Kuang Chen, Chun-Hung Wu, Fawu Wang and Shih-Chao Wei, 2012 “Progress of Geo-Disaster Mitigation Technology in Asia : Chap 23: Catastrophic Deep-Seated Landslide at Xiaolin Village in Taiwan Induced by 2009.8.9 Typhoon Morakot” F. Wang et al. (eds.), pp:401-419, Springer
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4. Ko-Fei Liu, Hsin-Chi Li, Mei-Chun Kuo and Hui-Hsuan Yang, 2013, ‘Assessment Social Impact of debris flow disaster by Social Vulnerability Index : 5.886-1.2 ICL Landslide Teaching Tools” K. Sassa, B. He, M. Mcsaveney and O. Nagai (eds.) Apr, pp 410-412. (ISBN: 978-4-9903382-2-0).
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7. Abolmasov B., Fathani, T. F., Liu, K. F. and Sassa K., 2017 “Progress of the World Report on Landslides” in Advancing Culture of Living with Landslides , pp.219-226. DOI: 10.1201/b21520-73

專利（Patents）

類別	專利名稱	國別	專利號碼	發明人	專利權人	專利期間	國科會計畫編號
(A)	土石流變特性測量裝置	本國	199071	劉格非	劉格非	2004/3/1-2021/6/6	
(A)	地下水測量之方法與系統	本國	1225936	劉格非 黃名村	劉格非 黃名村	2004/6/6-2021/9/12	NSC90-2625-Z-002-021
(A)	測量河川水域平均流速之方法	本國	1230783	劉格非 張書豪 莊素敏	劉格非	2005/4/11-2021/5/22	
(A)	災害預警系統	中國	01124357.0	劉格非	劉格非	2001/7/27-2021/7/27	NSC91-2625-Z-002-020

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期刊論文 (Journal Paper)

1. Capart, H., Hung, C.-Y., and Stark, C.P. (2015) Depth-integrated equations for entraining granular flows in narrow channels. *Journal of Fluid Mechanics* **765**, R4 (Impact factor = 2.893)
2. Ni, W.-J., and Capart, H. (2015) Cross-sectional imaging of refractive-index-matched liquid-granular flows. *Experiments in Fluids* **56**, 163 (Impact factor = 2.195)
3. Ke, W.-T., and Capart, H. (2015) Theory for the curvature-dependence of delta front progradation. *Geophysical Research Letters* **42**, 10,680-10,688 (Impact factor = 4.339)
4. Hung, C.-Y., Stark, C. P., and Capart, H. (2016) Granular flow regimes in rotating drums from depth-integrated theory. *Physical Review E* **93**, 030902 (Impact factor = 2.284)
5. Ke, W.-T., Chen, Y.-W., Hsu, H.-C., Toigo, K., Weng, W.-C. and Capart, H. (2016) Influence of Sediment Consolidation on Hydrosuction Performance. *Journal of Hydraulic Engineering* **142**, 04016037 (Impact factor = 2.080).
6. Hung, C.-Y., Aussillous, P., and Capart, H. (2018) Granular surface avalanching induced by drainage from a narrow silo. *Journal of Fluid Mechanics* **856**, 444-469 (Impact factor = 2.893)
7. Ni, W.-J., and Capart, H. (2018) Stresses and Drag in Turbulent Bed Load From Refractive Index-Matched Experiments. *Geophysical Research Letters* **45**, 7000-7009 (Impact factor = 4.339)

Contributions to International Conferences

1. Vanden Berghe, J.F., J. Pyrah, S. Gooding, and H. Capart (2011) Development of a jet trenching model in sand. Frontiers in Offshore Geotechnics II, Taylor and Francis.
2. Ni, W.J., H. Capart and L.J. Leu (2011) Design to Build: Pilot Tests for a New Keystone Project Course at NTU-CE. Proceedings of the First International Workshop on Design in Civil and Environmental Engineering, April 2011, KAIST, Korea.
3. Wu, E. Y.-H., H. Capart, M.-L. Lin, (2011) Design With or Without Expert Guidance? Lessons from a New Capstone Course at NTU-CE. Proceedings of the First International Workshop on Design in Civil and Environmental Engineering, April 2011, KAIST, Korea.

4. Bellal, M., H. Capart, S. Soares-Frazao, Y. Zech (2009) Analytical, experimental, and numerical models of knickpoint migration. Proceedings River, Coastal and Estuarine Morphodynamics: RCEM 2009, Santa Fe, Vionnet et al. (eds), Taylor & Francis Group, London, ISBN 978-0-415-55426-8, pp 57-63
5. Vanden Berghe, J.F., H. Capart, and J.C.C. Su (2008) Jet-induced trenching operations: mechanisms involved. Proceedings of the 2008 Offshore Technology Conference, May 2008, Houston, Texas.
6. Su, J.C.C., A.T.H. Perng, and H. Capart (2007) Underwater trench incision and turbid overspill due to moving point jets. Proceedings of XXXII Congress IAHR, Venice, Italy, July 2007.
7. Lai, S.Y.J., and H. Capart (2007) Response of hyperpycnal deltas to a steady rise in base level. Proceedings, RCEM2007, Twente, The Netherlands,September 2007.
8. Yang, R.Y., H.H. Hwung, S.J Jan, C.L. Teng, H. Capart, and L.A. Kuo (2007) Experimental study on the interaction between flow current and cage structure. Proceedings of the 17th Intl Offshore and Polar Eng Conference, Lisbon, Portugal, July 2007.
9. Huang, Y.F., H. Capart, R.H. Chen, and Y.L. Huang (2007) Experimental analysis of the seepage failure of a sand slope. Proceedings of the Fourth Int. Conf. on Debris Flow Haz Mitig., Chengdu, China, September 2007.
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Sediment Transport, Uncertainty Analysis, Risk and Reliability Analysis, Environmental Hydraulics

Refereed Journal Publications (underlined authors indicating Ph.D. students supervised)

1. Tsai, C.W.* and Lai, K.C. (2014). "A Three-state continuous-time Markov chain model for mixed size sediment particle transport" ASCE Journal of Hydraulic Engineering, 140(9), 04014047 (10pp), doi: 10.1061/(ASCE)HY.1943-7900.0000897
2. Tsai, C.W.* and Li, M. (2014). "Uncertainty analysis and risk assessment of DO concentrations in the Buffalo River Using the Perturbance Moments Method " ASCE Journal of Hydrologic Engineering , 19(12), 04014032 (12pp), http://dx.doi.org/10.1061/(ASCE)HE.1943-5584.0000985
3. Tsai, C.W.*, Man, C. and Oh, J.S. (2014). "A stochastic particle based model for suspended sediment in surface flows." International Journal of Sediment Research 29 (2014), 195-207.
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6. Franceschini, S., Tsai, C.W., and Marani, M. (2012)." Point Estimate Methods based on Taylor series expansion – the Perturbance Moments Method – a more coherent derivation of the second order statistical moment." Applied Mathematical Modelling, 36(11), 5445-5454.
7. Franceschini, S., Marani, M., Tsai, C.W., and Zambon, F. (2012). "A perturbance moment point estimate method for uncertainty analysis of the hydrologic response." Advances in Water Resources, 40, 46-53, DOI: 10.1016/j.advwatres.2012.02.007
8. Kuai, K. Z. and Tsai, C.* (2012)."Identification of varying time scales in sediment transport using the Hilbert–Huang Transform method. J. Hydrology, Vol. 401-402, 245-254, doi:10.1016/j.jhydrol.2011.12.007
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11. Franceschini, S. and Tsai, C.* (2010). "Assessing uncertainty sources in water quality

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12. Franceschini, S and Tsai, C.* (2010). "Application of Hilbert Huang Transform method for analyzing toxic concentrations in the Niagara River." ASCE Journal of Hydrologic Engineering 15(2), 90-96.
13. Oh. J. S., Tsai, C. W.*, and Choi, S-U "Quantifying the uncertainty of sediment concentration estimation in open channel flows using the stochastic particle tracking method " ASCE Journal of Hydraulic Engineering (under review).
14. Oh. J. S., Choi, S-U, and Tsai, C. W. "Investigation of the Characteristics of Momentum Transfer in the Open-Channel Flow based on the Lateral Distribution Method" Environmental Fluid Mechanics (under review).
15. Kuai, K. Z., and Tsai, C.W.* "A discrete-time Markov chain model for transport of mixed size sediment particles under unsteady flow conditions." ASCE Journal of Hydrologic Engineering (under review).
16. Tsai, C.W.* and Treadwell, H. "Analysis of trends and variability of toxic concentrations in the Niagara River " Environmental Modeling and Software (under review).

Refereed Conference Proceeding Publications (underlined authors indicating graduate students supervised)

1. Tsai, C* and Lin, E. Y. (2015). " Evaluation of potential climate change effects on particle movement in surface water" Proc, World Water and Environmental Resources Congress 2015, Austin, TX.
2. Tsai, C* and Wu, N.K. (2015). "Application of a Gambler's ruin model to uncertainty assessment of reservoir sedimentation problems " Proc, World Water and Environmental Resources Congress 2015, Austin, TX.
3. Tsai, C*, Lai, K.C. and Wu, N.K. (2013). "Application of Gambler's ruin model to sediment transport modeling" 17th Cross strait hydro-tech Conference, Myao-Li, Taiwan.
4. Tsai, C.* and Li, M. (2013). "Uncertainty analysis of water quality using the Perturbance Moments Method" Proc. IAHR 2013, 10pp. Wu-Han, China.
5. Kuai, K. and Tsai, C. (2012). "Stochastic modeling of nonuniform sediment transport under unsteady flow conditions" Proc, World Water and Environmental Resources Congress 2012, Albuquerque, NM.
6. Oh, J.S. and Tsai, C. (2011). "Stochastic Multivariate modeling for sediment transport" Proc, World Water and Environmental Resources Congress 2011, EWRI, 10pp. Palm Springs, CA.
7. Yang, Fu-Ning. and Tsai, C. (2011). "Modeling movement of sediment particles by a three-state continuous-time Markov chain model", Proc, World Water and Environmental Resources Congress 2011, EWRI, 10pp. Palm Springs, CA.
8. Oh, J.S. and Tsai, C. (2010). "Estimation of particle concentrations using stochastic particle tracking method in open channel flows" Proc, World Water and Environmental Resources Congress 2010, EWRI, 10pp. Providence, RI.
9. Kuai, K. Z. and Tsai, C. (2010). "Application of Hilbert-Huang Transform method to the analysis of varying timescales in sediment transport", Proc, World Water and Environmental Resources Congress 2010, EWRI, 10pp. Providence, RI.
10. Tsai, C and Oh, J.S. (2009). "A stochastic diffusion jump model of suspended sediment transport in case of hydrologic extreme events" Proc, IAHR, 10pp. Vancouver, Canada.
11. Oh, J.S. and Tsai, C. (2009). "A stochastic diffusion jump model of suspended sediment transport in case hydrologic extreme events" Proc, World Water and Environmental Resources Congress 2009, EWRI, 10pp. Kansas City, MO.
12. Kuai, K. Z. and Tsai, C. (2009). "A stochastic non-equilibrium bedload transport model" Proc, World Water and Environmental Resources Congress 2009, EWRI, 10pp. Kansas City, MO.

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期刊論文 (Journal Paper)

1. 李天浩、林忠義，「評估四種聯合克利金法整合雷達和雨量站觀測估計降雨空間分佈的誤差特性」，2010 年，中國土木水利工程學刊，第二十二卷第一期，23-41。
2. T.-L. Chung, W.-Y. Chang, W.-F. Tsai, F.-P. Lin, E. Strandell, L.-C. Ku, J.-G. Lee, J.-Y. Chang, T.-H. Lee, J.-H. Wu, S.-C. Lin, M. Chen, Y.-H. Lee, K.-C. Chang, and Y.-F. Wang, Cyber-infrastructure for flood mitigation in Taiwan, 2010, Proceedings of the ICE (Institution of Civil Engineers) - Water Management, vol.163(1) p3-11. (SCI, 2008 I.F.=0.333)

研討會論文（Conference Papers）

1. 李天浩、溫欣儀、陳雲蘭、陳孟詩，2014，「通用克利金法的統計結構模型選擇和參數檢定方法」，交通部中央氣象 103 年天氣分析與預報研討會論文集。
2. 洪國展、李天浩、馮智勇、黃椿喜、丘君翹、林彥廷，2014，「以改良式 ABLER 法應用於台灣地區降雨系統移速場外延估計」，交通部中央氣象 103 年天氣分析與預報研討會論文集。
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6. 李天浩、張鳳吟、丘君翹、蔡雅婷、黃椿喜、劉承昕，「應用 QPESUMS 資料迴歸估計台灣地區降雨系統移速場」，102 年天氣分析與預報研討會，桃園龍潭，102 年 5 月 13-15 日。
7. 鄭安孺、李天浩、顧欣怡、陳怡彣、林忠義，「應用雷達定量降雨估計改進雨量檢覈技術」，102 年天氣分析與預報研討會，桃園龍潭，102 年 5 月 13-16 日，研討會論文集，A2-87-91。

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11. 馮智勇、李天浩、陳雲蘭、高慧萱，「發展鄉鎮逐時預報計畫之高解析度統計預報技術研究(3)－BCDG 空間內插方法分析與應用」，建國百年天氣分析預報與地震測報研討會，交通部中央氣象局，台北市，100 年 9 月 20-22 日。
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7. 李天浩、李政賢，建立高精度與高效能之洪氾預警整合系統--子計畫:考慮不確定土石

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14. 李天浩，「發展鄉鎮逐時天氣預報統計降尺度建置案-網格完全推測和傳統點完全推測統計迴歸方法比較驗證」，交通部中央氣象局，99 年 12 月。
15. 李天浩，都市積淹水即時預報系統研發總計畫暨子計畫:渠道管網演算與資料同化模式研發(III)，國科會報告，2010 年 10 月。

專利

名稱：「自動化虛擬實境地形影像產生方法、展示編輯系統，及系統儲存裝置」

發明人：賴進松、何興亞、郭振泰、李天浩、譚義績、李豐佐、李碧雲、彭韶雯、黃鈺喻

專利權人：賴進松

專利證號：發明第 I 282944 號

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1. Su, H. T., & You, G. J. Y. (2014). Developing an Entropy-Based Model of Spatial Information Estimation and its Application in the Design of Precipitation Gauge Networks. Journal of Hydrology..
2. You, G. J. Y., Thum, B. H., & Lin, F. H. (2014). The examination of reproducibility in hydro-ecological characteristics by daily synthetic flow models. Journal of Hydrology, 511, 904-919.
3. Lee, B. S., & You, G. J. Y. (2013). An assessment of long-term overtopping risk and optimal termination time of dam under climate change. Journal of environmental management, 121, 57-71..
4. You, G. J. Y., & Yu, C. W. (2013). Theoretical error convergence of limited forecast horizon in optimal reservoir operating decisions. Water Resources Research, 49(3), 1728-1734..
5. You, G. J. Y. (2013). Hedging Rules for the Operation of Lake Okeechobee in Southern Florida. JAWRA Journal of the American Water Resources Association, 49(5), 1179-1197.
6. Tsai, Z. X., You, G. J. Y., Lee, H. Y., & Chiu, Y. J. (2013). Modeling the sediment yield from landslides in the Shihmen Reservoir watershed, Taiwan. Earth Surface Processes and Landforms, 38(7), 661-674.
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8. Lian, Y*. You, J-Y, Sparks, R. and M. Demissie (2012), Impact of Human Activities to Hydrologic Alterations on the Illinois River. Journal of Hydrologic Engineering 15(4), doi:10.1061/(ASCE)HE.1943-5584.0000465.
9. You, J-Y. and X. Cai (2009), A Reexamination of Critical Period for Reservoir Design and Operation, Journal of Water Resources Planning and Management, 135(5), 392-396.
10. You, J-Y. and X. Cai (2008), Forecast and Decision Horizons for under Hedging Policies. Water Resour. Res. 44, W11430, doi:10.1029/2008WR006978
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13. Cai, X, C. Ringler and J-Y You (2008), Substitution between Water and other Agricultural Inputs: Scaling up from Crop Fields to the Basin Level. Ecological economics, 66(1) 38-55.
14. Lee, H-Y., Lin Y-T, You J-Y, Wang H-W.(2006), On three-dimensional continuous saltating process of sediment particles near the channel bed, IAHR Journal of Hydraulic Research, 44(3), 374-389.
15. Lee, H-Y., J-Y You. and Y-T Lin. (2002), Continuous saltating process of multiple sediment particles. J. Hydraulic Engineering. 128(4), 443–450.
16. Lee, H-Y., Chen, Y., You, J., and Lin, Y. (2000), Investigations of continuous bed load saltating process. J. Hydraulic Engineering 126(9), 691–700.

CONFERENCES PUBLICATIONS

1. Invite presenter for the U.S. Bureau of Reclamation (Nov, 12) “Reservoir Sediment Management” Denvor
2. International Conference and the annual meeting of International Society of Paddy and Water Environment Engineering (Oct, 2013) “The Evaluation of the Nonstationary of Annual Maximum Precipitation in Taiwan“ at Cheongju, Korea
3. International Conference and the annual meeting of International Society of Paddy and Water Environment Engineering (Oct, 2013) “The Determination of Optimal Time for Reservoir Empty Flushing “ at Cheongju, Korea
4. Instructor for Hydrotech Research Institute, Nation Taiwan University (Nov, 2013) “HEC-RAS Workshop” at Taipei
5. Instructor for Taiwan Typhoon and Flood Research Institute (Aug, 2013) “2013 HEC-RAS Workshop” at Taipei
6. Invite presenter for the Engineering Insurance Association (Aug, 2013) “Natural Hazard and its Challenge to Water Resource Engineering” at Taipei
7. AOGS 10th Annual Meeting (Jun, 2013) “The Determination of Optimal Time for Reservoir Empty Flushing” at Brisbane
8. AOGS 10th Annual Meeting (Jun, 2013) “An Analytical Model of Head-cutting Behavior for Dam Removal” at Brisbane
9. Invite presenter for the Department of Civil Engineering at the National Chi Nan University (Dec, 2012) “Estimation of Sediment Yields from Landslide and its Post Failures Soil Loss in Shihmen Reservoir Watershed “ at Kaohsiung
10. Invite lecturer for International Dam Risk Assessment Workshop invited by K-water (Sept, 2012) “Dam safety management in Taiwan” at Daejeon
11. 2012 AOGS-AGU (WPGM) Joint Assembly speaker (Aug, 2012) “The examination of the reproduction of ecological patterns by synthetic streamflow generation models” at Singapore
12. Invite presenter for the Department of Civil Engineering at the National Chi Nan University (May, 2012) “The risk analysis of long term impact to reservoir under extreme hydrologic events” at Nantou, Taiwan.
13. Invite presenter for the Department of Civil Engineering at the National Chi Nan University (May, 2012) “The new capstone course in NTU” at Nantou, Taiwan
14. Invite presenter for the Department of Civil Engineering at the National Chi Nan University (May, 2012) “The risk analysis of long term impact to reservoir under extreme hydrologic events” at Taipei, Taiwan.
15. The 1st Joint Workshop of National Taiwan University and Tongji University in Civil Engineering speaker (Oct, 2011) “The risk analysis of long term impact to reservoir under

extreme hydrologic events" at Shanghai, China.

16. Invite presenter for the Graduate Institute of Hydrological & Oceanic Sciences of National Central University (Oct, 2011) "The risk analysis of long term impact to reservoir under extreme hydrologic events" at Chung-Li, Taiwan.
17. 2011 EWRI Conference speaker (May 2011): Presented "The risk analysis of long term impact to reservoir under extreme hydrologic events, Shihmen Reservoir a Case Study" at Palm Springs, CA.
18. Invite presenter for the Department of Civil Engineering of National Central University (Apr, 2011): Presented "Interdisciplinary studies of Economics and water resources engineering: the development in theory and application" at Chung-Li, Taiwan
19. Invite presenter for the Graduate Institute of Environmental Engineering, National Cheng Kung University (Mar, 2011): Presented "Interdisciplinary studies of Economics and water resources engineering: the development in theory and application" at Taipei, Taiwan
20. Invite presenter for the Department of Civil Engineering, National Chiao Tung University (Aug, 2010): Presented "Interdisciplinary studies of Economics and water resources engineering: the development in theory and application" at Hsinchu, Taiwan
21. Invite presenter for the Department of Hydraulic & Ocean Engineering, National Cheng Kung University (Mar, 2010): Presented "Interdisciplinary studies of Economics and water resources engineering: the development in theory and application" at Tainan, Taiwan
22. Invite presenter for the Department of Civil Engineering, National Taiwan University (Sep, 2009): Presented "Hydro-Economic Modeling of Climate Change Impacts in Ethiopia" at Taipei, Taiwan.
23. Invite presenter for the Department of Civil Engineering, National Taiwan University (Sep, 2009): Presented "Hydro-Economic Modeling of Climate Change Impacts in Ethiopia" at Taipei, Taiwan.
24. Invite presenter for International Food Policy Research Institute (Dec 2008): Presented "How Long to Hedge: Time Scale Issues for Reservoir Operations and Sustainable Management Policy" at Washington DC.
25. 2008 EWRI Conference speaker (May 2008): Presented "Improve Hedging Rules for the Operation of Lake Okeechobee in Southern Florida" at Honolulu, HA.
26. Invite presenter for program in Environmental and Resource Economics (pERE) (Oct 2007): Presented "Hedging Rule for Reservoir Operations - How Much, When and How Long to Hedge" at Urbana, IL.
27. EHHE Seminar presenter (April 2007): Presented "Hedging Rule for Reservoir Operations - How Much, When and How Long to Hedge" at Urbana, IL.
28. 2007 EWRI Conference speaker (May 2007): Presented "Determining Forecast and Decision Horizons for Reservoir Operations under Hedging Policies" at Tampa, FL.
29. 2006 EWRI Conference speaker (May 2006): Presented "Hedging Rule and Its Relevance to Decision Making in Reservoir Operation" at Omaha, NE.

TECHNICAL REPORT

1. You, G. J.-Y., and C. Ringler (2011), How can African agriculture adapt to climate change: Climate Change Impacts in Ethiopia: Hydro-Economic Modeling Projections Rep., International Food Policy Research Institute (IFPRI).
2. You, G. J.-Y., and C. Ringler (2011). Climate change impacts in Ethiopia, hydro-economic modeling projections. IFPRI Research Brief.

3. You, G. J.-Y. and C. Ringler(2010), Hydro-Economic Modeling of Climate Change Impacts in Ethiopia. IFPRI Discussion Paper, 960. Washington, D.C.: International Food Policy Research Institute

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期刊論文　*Corresponding author

1. Shih, S.S. *, P.H. Kuo, J.S. Lai (2019, Dec). A nonstructural flood prevention measure for mitigating urban inundation impacts along with river flooding. Journal of Environmental Management, 251: 1-11. (SCI, 37/251, Environmental Science). MOST 106-2621-M-002-004-MY3. 本人為第一作者、通訊作者.
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3. Ouyang, H.T., S.S. Shih, C.S. Wu (2017, Jul). Optimal Combinations of Non-Sequential Regressors for ARX-Based Typhoon Inundation Forecast Models Considering Multiple Objectives. Water, 9(7), 519. (SCI, 29/91, Water Resources).
4. Shih, S.S., Y.Q. Zeng, H.Y. Lee, M.L. Otte, W.T. Fang (2017, Feb). Tracer Experiments and Hydraulic Performance Improvements in a Treatment Pond. Water, 9(2), 137. (SCI, 29/91, Water Resources). NSC 102-2218-E-002-008. 本人為第一作者.
5. Chang, T.J., Y.S. Chang, W.T. Lee, S.S. Shih* (2016, Jul). Flow uniformity and hydraulic efficiency improvement of deep-water constructed wetlands. Ecological Engineering, 92: 28-36. (SCI, 43/165, Ecology). NSC 102-2218-E-002-008. 本人為通訊作者.
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23. Hsu, Tien-Pen, ; Kuo, Pei-Fen , 2005, August. Priority evaluation of traffic safety subsystems of ITS in Taiwan, 7th Asia-Pacific ITS forum, New Delhi, 2005, 10. Aug. India.
24. Hsu, Tien-Pen, Yu-Jui Lin and Jen-Fu Deng, 2005, August. Study of Dynamic Warning Threshold for Collision Avoidance System , 7th Asia-Pacific ITS forum, New Delhi, 2005, 10. Aug. India.
25. Hsu, Tien-Pen, Li, Ming-Tsung; 2004 May, Development and Application of Level of Safety for Pedestrian on Local Street, Urban Transport 2004 conference, May, 2004, Germany. In Book : Urban Transport, Editor: Wessex Institute, England.
26. HSU TIEN-PEN, 2004, Feb. Motorcycle Traffic Safety Management in Taiwan: A Segregated Flow Concept, International Conference on Transportation Systems Planning and Operation, Chennai, India. In Book: Transportation system planning, Editor: Prof. V. Thamizh Arasan
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A. 期刊論文

a. SCI/SSCI 期刊論文

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c.其他期刊論文

B. 會議論文

a.國外會議論文

1. **Chu, J. C.**, Location Optimization of Battery Swapping Stations for Electric Scooters, 3rd International Symposium on Infrastructure Asset Management (SIAM3), Abu Dhabi, United Arab Emirates, Mar. 31-Apr. 1, 2019
2. Yang, S.-K., **Chu, J. C.**, Chou, Y.-H., Wang, M.-H., Liu, C.-P. and Xiao, Y.-A., Comparison of solution methods of dial-a-ride problems for rural areas, The

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4. Wei, Y.-T., **Chu, J. C.**, and Shih, A.-L., A mesoscopic model for large-scale pedestrian simulation, The Thirty-Second KKHTCNN Symposium on Civil Engineering, Daejeon, Korea, Oct. 24-26, 2019.
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6. Lin, Y.-F., Lin, Y.-Y., Korsesthakarn, K., Chen, Y.-J., Kang, C.-Y., and **Chu, J. C.**, Design of Variable Guidance for Pedestrian Evacuation, International Symposium of Transport Simulation & International Workshop on Traffic Data Collection and its Standardization 2018 (ISTS & IWTDCS 2018), Matsuyama, Japan Aug. 4-6, 2018.
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11. Huang, K.-H., Yeh, J.-C., and **Chu, J. C.**, Mathematical Modeling and Comparison for network-level pavement maintenance strategies, The

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b.國內會議論文

1. Yang, S.-K., **Chu, J. C.**, Chou, Y.-H., Wang, M.-H., Liu, C.-P. and Xiao, Y.-A., Comparison and improvement of solution methods of dial-a-ride problems for rural areas, 2019 International Conference and Annual Meeting of Chinese Institute of Transportation, Hsinchu City, Taiwan, Dec. 5-6, 2019 (in Chinese).
2. Yeh, J.-C., **Chu, J. C.**, Chou, Y.-H., Huang, H.-P., and Chang, Y.-J., Optimization of Scheduling and Charging of Electric Buses using Discrete-event Simulation, 2019 International Conference and Annual Meeting of Chinese Institute of Transportation, Hsinchu City, Taiwan, Dec. 5-6, 2019 (in Chinese).
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6. Shih, H.-H., Kang, C.-Y. and **Chu, J. C.**, Integration of Dial-a-ride Scheduling and Bus Network Design by A Stochastic Programming Model, The 30th KKHTCNN Symposium on Civil Engineering, Taipei, Taiwan, Nov. 2-4, 2017.
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9. Shih, H.-H, **Chu, J. C.**, and Kang, C.-Y., A Stochastic Programming Model for Integration of Bus Network Design and Dial-a-ride Scheduling, 8th

International Symposium on Travel Demand Management (TDM), Taipei, Taiwan, Sep. 26-29, 2017.

10. **Chu, J. C.**, Transit network design and scheduling problem for multi-depot round-trip fixed-interval routes, 9th International Conference on Applied Operational Research (ICAOR), Taoyuan, Taiwan, Dec. 18-20 2017
11. Wu, H.-Y., Korsesthakarn, K., and **Chu, J. C.**, A Mixed Integer Programming Model for Transit Timetable Optimization Considering Transit Assignment, 2017 International Conference and Annual Meeting of Chinese Institute of Transportation, Taipei, Taiwan, Dec. 7-8, 2017.
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C. 專書及專書論文

D. 技術報告及其他

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3. Qiu W.-X., and Chen A.Y. (2019) “Computer Vision-based In-building Human Demand Estimation for Installation of Automated External Defibrillators,” International Conference on Civil and Building Engineering Informatics (ICCBEI), nd Building Engineering Informatics November 7-8, 2019, Sendai, Japan.
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5. Yen, Y., Wen, S.-Y., Y.-H., Huang, Y.-N., and Chen, A. (2018) “Human Tracking for Facility Surveillance,” Computer Vision Conference (CVC), Las Vegas 2019.
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7. Ou, C.-Y. and Chen, A. Y. (2018) “The Analysis of Audio Content in Emergency Medical Service Dispatch Communication,” The 31st KKHTCNN Symposium on Civil Engineering, Kyoto, Japan, November 22-24

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9. Wei, S.-R. and Chen, A. Y. (2018) “Projection transformation for traffic surveillance cameras through deep learning,” The 31st KKHTCNN Symposium on Civil Engineering, Kyoto, Japan, November 22-24
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13. Kuo, T.-J. Chan, Y.-C., and Chen, A. Y. (2017) "Development of an Occupant-Centered Integrated Lighting and Shading Control for Energy Saving and Individual Preferences," International Workshop on Computing in Civil Engineering (IWCCE 2017), Seattle, WA, USA, June 25-27.
14. Chen, C.-H. and Chen, A. Y. (2017) "Applied BIM: MAT and MTSP Integrated Approach for the Interior Patrol Routing Problem," International Workshop on Computing in Civil Engineering (IWCCE 2017), Seattle, WA, USA, June 25-27.
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23. Lee, C.-D., Chen, A. Y., and Chang, C.-Y. (2016) ”In-building Coverage of AED Considering Pedestrian Flow," The 16th International Conference on Computing in Civil and Building Engineering (ICCCBE), Osaka, Japan, July 6-8.
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26. Chen, A. Y. and Chang, C.-Y. (2015) "Using Hog For Video-Based Human Detection for In-Building Emergency Response," International Conference on Civil and Building Engineering Informatics (ICCBEI 2015), Tokyo, Japan, April 22-25.
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28. Chen, A. Y. and Su, C.-H. (2015) "Supply Shortage Forecast using Spatial Data Mining for EMS," International Conference on Civil and Building Engineering Informatics (ICCBEI 2015), Tokyo, Japan, April 22-25.
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3. S. Ping Ho, H. Tserng, and S. Jan (2013). “Enhancing Knowledge Sharing Management Using BIM Technology in Construction.” The Scientific World Journal, DOI:10.1155/2013/170498. Published online. (SCI).
4. R. Levitt, C. Wang, S. Ping Ho*, and A. Javernick-Will (2013). “Encouraging Knowledge Sharing in Engineering Firms-Part II: Game Theory Analysis and Firm Strategies.” Engineering Project Organization Journal, 3(1), 22-31. (2011 new journal by Taylor and Francis).
5. H. Tserng, S. Ping Ho, J. Chou, and C. Lin (2013). “Proactive Measures of Governmental Debt Guarantees to Facilitate PPP Project.” Journal of Civil Engineering and Management. Final proof, in print. (SCI).
6. H. Tserng, S. Ping Ho, and S. Jan (2013). “Developing BIM-Assisted As-Built Schedule Management System for General Contractors.” Journal of Civil Engineering and Management, DOI:10.3846/13923730.2013.851112. Final proof, in print. (SCI).
7. R. Levitt, C. Wang, S. Ping Ho*, and A. Javernick-Will (2012). “Encouraging Knowledge Sharing in Engineering Firms-Part I: Incentives, Disincentives, and the Impacts of Firm.” Engineering Project Organization Journal, 2(4), 231-239. (2011 new journal by Taylor and Francis).
8. M. Lin, H. Tserng, S. Ping Ho, and D. Young (2012). “A Novel Dynamic Progress Forecasting Approach for Construction Projects.” Expert Systems with Applications, 39(3), 2247-2255. (SCI).
9. Y. Lin, S. Ping Ho, and H. Wu (2012). “The Antecedents and Performance Consequence of Governance Structures in R&D Alliances.” Journal of Southeast University, 28(3), 360-366. (EI).

10. S. Ping Ho*, Y. Hsu, and E. Lin (2011). “Model for Knowledge Sharing Strategies: A Game Theory Analysis.” Engineering Project Organization Journal, 1(1), 53-65. (2011 new journal by Taylor and Francis). NSC97-2221-E-002-204. This paper currently is ranked Top One MOST READ paper of the journal, with 788 downloads as of 2/7/2014.
11. M. Lin, H. Tserng, S. Ping Ho, and D. Young (2011). “Developing a Construction-Duration Model Based on a Historical Dataset for Building Project.” Journal of Civil Engineering and Management, 17(4), 529-539. (SCI).
12. L. Tsai, H. Tserng, S. Ping Ho, C. Sung, and Y. Chou (2010). “Developing an Analytical Model for the Optimal Capital Structure of the Building Company.” Journal of Marine Science and Technology, 18(3), 385-394. (SCI).
13. S. Ping Ho*, Y. Lin, W. Chu, and H. Wu (2009). “Model for Organizational Governance Structure Choices in Construction Joint Ventures.” Journal of Construction Engineering and Management, ASCE, 135(6), 518-530. NSC96-2221-E-002-219 & NSC95-2221-E-002-321. (SCI)
14. S. Ping Ho*, Y. Lin, W. Chu, and H. Wu (2009) “Empirical Test of a Model for Organizational Governance Structure Choices in Construction Joint Ventures.” Construction Management and Economics, 27(3), 315-324. NSC96-2221-E-002-219. (EI)
15. H. Tserng, S. Ping Ho, C. Sung, L. Tsai, and D. Yang (2009) “An Empirical Research of Valuation Models for the Construction Industry.” Journal of the Chinese Institute of Civil and Hydraulic Engineering, 21(3), 275-284. (EI)
16. Y. Hsu, J. Chien, and S. Ping Ho (2008) “Macroeconomic Risk, Long-Run Risk and Asset Pricing Puzzles.” Journal of Financial Review, 8, 1-20.
17. J. Chien, Y. Hsu, and S. Ping Ho (2007). “Can Housing Prices Predict Stock Prices?” Academia Economic Papers, Institute of Economics, Academia Sinica, 36(1), 89-139. (TSSCI).
18. S. Ping Ho*, C. Tsui, and B. Hsiung (2007). “A Study of Time Limit to Claim for Extension of Time for Construction Completion- and Review on the Taiwan High Court Judgment C.S.T. No. 170 (1998).” Journal of the Chinese Institute of Civil and Hydraulic Engineering, 19(1), 117-124. (EI)

研討會論文（Conference Papers）

1. S. Ping Ho*, C. Lin, H. Yin (2013). “The Entry Mode Choice of Construction Firms into China Market - From an Institution-Based Point of View” Proceedings of the 26th KKHTCNN Symposium on Civil Engineering, Singapore.
2. S. Ping Ho*, Y. Hsu, Y. Wang, and Y. Pen (2012). “Bid Compensation Strategies for PPP Projects with Heterogeneous Bidders: A Game Theory Analysis.” Proceedings of Engineering Project Organization Conference 2012, Netherlands.
3. S. Ping Ho*, Y. Hsu, and C. Wang (2011). “How knowledge is shared in organizations: model and empirical evidence.” Proceedings of EASEC 11, Taipei, TAIWAN.
4. Yi-Hsin Lin, S. Ping Ho*, and Hsueh-Liang Wu (2011). “An Empirical Analysis of the Organizational Governance Structure Choices in International Construction Joint Ventures.” Proceedings of EASEC 11, Taipei.
5. P. Lin and S. Ping Ho (2011). “Eclectic Paradigm and the MNE’s Entry Model” Proceedings of the 24th KKCNN Symposium on Civil Engineering, Japan.
6. S. Ping Ho* and E. Lin (2010). “Motivating Knowledge Sharing in Communities of Practice.” Proceedings of Engineering Project Organization Conference, South Lake Tahoe, CA.

7. S. Ping Ho* and E. Lin (2010). “Model for the Internationalization Process of Construction Firms: A Dynamic OLI View.” Proceedings of Engineering Project Organization Conference, South Lake Tahoe, CA.
8. S. Ping Ho* and C. Tsui (2010). “When PPP Governance Should not be used: Case Studies of Chunnel and Taiwan High Speed Rail Projects.” Proceedings of 2nd Stanford CRGP & Aalto University Joint Seminar on Global Projects, Business Networkds and Project Business, Stanford, CA.
9. S. Ping Ho* and C. Tsui (2010). “Model for Legal Principles of Compensation for Errors in Bills of Quantities: A Law and Economic Analysis.” Proceedings of Construction Research Congress 2010, ASCE, Banff, Canada.
10. S. Ping Ho* and C. Tsui (2010). “When are Public-Private Partnerships not an Appropriate Governance Structure? Case Study Evidence.” Proceedings of . Construction Research Congress 2010, ASCE, Banff, Canada.
11. S. Ping Ho*, C. Pan, C. Yeh, and Y. Hsu (2010). “Characteristics of and Relations Between Housing Cycles and Economic Fluctuations: A Time-Frequency Analysis.” Proceedings of the 2nd ReCapNet Conference, Mannheim, Germany. [Only 21 papers were accepted and invited, each with a thirty-minute-long session of presentation and discussion.]
12. Y. Lin and S. Ping Ho, (2010). “Impact of Governance Structure Fit on Performance in Construction Joint Ventures.” The 8th International Conference on Construction and Real Estate Management, Brisbane, Australia, 230-235.
13. S. Ping Ho* and C. Tsui (2009). “The Transaction Costs of Public-Private Partnerships: Implications on PPP Governance Design.” Proceedings of Lead 2009 Specialty Conference: Global Governance in Project Organizations, South Lake Tahoe, CA.
14. S. Ping Ho, Y. Hsu, and E. Lin (2009). “A Sharing-Focused Model for the Implementation of Knowledge Management System.” Proceedings of ICCEM2009 Conference, Austin, TX.
15. S. Ping Ho, H. Wu, and E. Lin (2009). “Model for Partner Selection in Global Projects: A Game Theory Analysis.” Proceedings of Lead 2009 Specialty Conference: Global Governance in Project Organizations, South Lake Tahoe, CA. [Keynote paper, invited to give a keynote speech] Proceedings of Lead 2009 Specialty Conference: Global Governance in Project Organizations.]
16. S. Ping Ho*, Y. Hsu, and C. Yeh (2008). “Long-Horizon Predictability of Equity REIT Returns: Is it There?” Proceedings of IREBS 2008 Conference on Real Estate Economics and Finance, Regensburg, Germany. [Only 11 papers were accepted and invited, each with an hour-long session of presentation and discussion].
17. S. Franceschini, C. Tsai, and S. Ping Ho (2008). “Application of Hilbert Huang Transform Method for Analysis of Containment Concentrations in the Niagara River.” Proceedings of EWRI Congress, Hawaii, USA.
18. S. Ping Ho*, Y. Hsu, and C. Wang (2008). “How knowledge is shared in organizations: model and empirical evidence.” Proceedings of the 11th EASEC, Taipei, TAIWAN.
19. Y. Lin, S. Ping Ho, and H. Wu (2008), “An Empirical Analysis of the Organizational Governance Structure Choices in International Construction Joint Ventures.” Proceedings of the 11th EASEC, Taipei, TAIWAN.
20. M. Lin, H. Tserng, S. Ping Ho, and Young, D. L. (2008). “Modeling Predictive Construction Durations for Building Project in Taiwan.” Proceedings of the 11th EASEC, Taipei, TAIWAN.
21. S. Ping Ho*, Y. Hsu, and C. Yeh (2008). “Long-Horizon Predictability of Equity REIT Returns: Is it There?” Proceedings of IREBS 2008 Conference on Real Estate Economics and Finance, Regensburg, Germany. [Only 12 papers were accepted and invited, each with a

forty-minute-long session of presentation and discussion]

22. C. Yu, C. Lin, S. Ping Ho, G. Chen, and H. Luo (2007). “A Performance Evaluation Model of Knowledge Management System with a Knowledge-Growing Pint Mechanism-A Case Study of an Engineering Consulting Firm.” Proceedings of 4th Civil Engineering Conference in the Asian Region (CECAR), Taipei.
23. 楊佳璇、荷世平 (2012) “跨國工程顧問公司在中國之高階經理人本土化策略：制度理論觀點” 第十六屆營建工程與管理研究成果聯合發表會論文集。
24. 李桓岳、荷世平 (2012) “跨國工程顧問公司在中國之進入模式策略：制度理論觀點” 第十六屆營建工程與管理研究成果聯合發表會論文集。
25. 阮文山 (2012) “國際聯合承攬之夥伴選擇策略：越南之個案研究” 第十六屆營建工程與管理研究成果聯合發表會論文集。
26. 許繼元、荷世平 (2011) “跨國企業在中國之經理人本土化個案研究-以營造業為例” 第十五屆營建工程與管理研究成果聯合發表會論文集。
27. 尹慧雯、荷世平 (2011) “跨國企業在中國之進入策略-以營造業為例” 第十五屆營建工程與管理研究成果聯合發表會論文集。
28. 彭宇聖、荷世平(2011) “以賽局理論建立備標補償決策模型” 第十五屆營建工程與管理研究成果聯合發表會論文集。
29. 洪志嘉、荷世平(2011) “營建投資與經濟成長之關聯性-以VAR與小波轉換分析” 第十五屆營建工程與管理研究成果聯合發表會論文集。
30. T. Lu and S. Ping Ho (2011) “Asymmetric Volatility in the Stock Market and REITs and the Implied Heterogeneous Beliefs.” 第十五屆營建工程與管理研究成果聯合發表會論文集。
31. 張葳竹、荷世平、林恩霓 (2010) “營建業國際化之速度與規律性之策略影響因子,” 第十四屆營建工程與管理研究成果聯合發表會論文集。
32. 劉昶甫、荷世平、葉崇熙 (2010) “股票與不動產市場泡沫崩盤之偵測機制-噪音交易與能量觀點,” 第十四屆營建工程與管理研究成果聯合發表會論文集。
33. 荷世平、林培元 (2010) “超高層大樓施工管理之緊急應變作為-以台北101大樓為例,” 第十四屆營建工程與管理研究成果聯合發表會論文集。
34. 荷世平、胡榮生 (2010) “基本設計階段成果辦理工程招標之探討-以國道1號五股楊梅段拓寬工程為例,” 第十四屆營建工程與管理研究成果聯合發表會論文集。
35. Bui, Q. H., Ho, S. Ping, and Tsui, C. (2010) “Issues of PPP Infrastructure Projects in Vietnam A Perspective of Transaction Costs Theory.” 第十四屆營建工程與管理研究成果聯合發表會論文集。
36. Pan, C.S., Ho, S. Ping, and Yeh, C. (2010) “The Relationship Between Housing Cycles and Economy Fluctuations,” 第十四屆營建工程與管理研究成果聯合發表會論文集 (榮獲營建財務類最佳論文獎)。
37. Lin, Y., Ho, S. Ping, and Lin, E. (2010) “A Dynamic Eclectic Model of Internationalization Process of Firms in Construction Industry: Theory Development,” 第十四屆營建工程與管理研究成果聯合發表會論文集 (榮獲 大會最佳論文獎)。
38. Ho, S Ping, Chang, C. (2008) “Financial Limited-Recourse in Public-Private Partnership Projects and Its Implications: A Real Option Based Analysis,” 第十二屆營建工程與管理研究成果聯合發表會論文集。

39. 林敏朝、曾惠斌、荷世平(2008) “建築工程專案工期預估模型建立之研究,” 第十二屆營建工程與管理研究成果聯合發表會論文集。
40. 毛昭凱、荷世平 (2008) “營建產業國際化驅動因素與進入策略之研究,” 第十二屆營建工程與管理研究成果聯合發表會論文集。
41. 黃德元、荷世平 (2008) “不動產投資信託（REITs）風險因子之研究-以美國市場為例,” 第十二屆營建工程與管理研究成果聯合發表會論文集。
42. 周展民、荷世平、許耀文 (2007) “不動產投資信託之報酬及股利成長的可預測性,” 第十一屆營建工程與管理研究成果聯合發表會論文集。
43. 王中杰、荷世平 (2007) “工程顧問公司知識分享與激勵制度之實證研究,” 第十一屆營建工程與管理研究成果聯合發表會論文集。
44. 蘇惠秋、荷世平 (2007) “以不動產投資信託基金(REIT)投資特許開發區之可行性研究-以高鐵新竹站為例,” 第十一屆營建工程與管理研究成果聯合發表會論文集。
45. 謝承翰、荷世平 (2007) “Empirical Study of the Location Behaviors for Cement and Cement Product Manufacturing Industries.” 第十一屆營建工程與管理研究成果聯合發表會論文集。
46. 周易陵、荷世平 (2007) “機關委託專案管理技術服務費之研究-以鐵路地下化工程為例,” 第十一屆營建工程與管理研究成果聯合發表會論文集。
47. 李宗白、荷世平 (2007) “PCM廠商服務品質與滿意度之研究-以公立醫療機構為例,” 第十一屆營建工程與管理研究成果聯合發表會論文集。
48. 黎偉銘、荷世平 (2007) “我國促進民間參與公共建設制度採Green PPP之研究,” 第十一屆營建工程與管理研究成果聯合發表會論文集。

C. 學術章節（Review articles and book chapters）

1. S. Ping Ho* (2013). Chapter 8: Game Theory and PPP. In: P. de Vries & E. Yehoue (Eds.) The Routledge Companion to Public-Private Partnerships, pp.175-206 (31pages), Routledge, Abingdon, Oxon, UK. NSC 99-2628-E-002-023.
2. S. Ping Ho* (2011). Chapter 7: Globalization. In: P. Chinowsky & A. Songer (Eds.) Organization Management in Construction, pp.95-113 (18 pages), Spon Press, Abingdon, Oxon, UK.
3. S. Ping Ho* (2008). Chapter 15: Government Policy on PPP Financial Issues: Bid Compensation and Financial Renegotiation. In: A. Akintoye & M. Beck (Eds.) Policy, Finance and Management for Public-Private Partnerships, pp.267-300 (33pages). Wiley-Blackwell, Chichester, West Sussex, UK.

專書及專書論文

1. Ho, S. Ping (2011) “Chapter 7: Globalization” in Organization Management in Construction, pp. 95-113. Edited by Professor P. S. Chinowsky and Professer A. D. Songer, Spon Press, New York, NY.
2. Ho, S. Ping (2011) “Chapter 12: Game Theory and PPP” in The Routledge Companion to Public-Private Partnerships. Edited by Professor Piet de Vries and Etienne Yehoue, Taylor and Francis, In Print. (35 pages)

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Refereed Journal Papers

A.Articles in Refereed Journals (*: Corresponding author)

1. Chen, P.H., Kan, M.S., and Chang, L.M. (2015). “Sustainable Design for Hospitals in Taiwan.” International Journal of Civil Engineering and Architecture, Vol. 1, No. 1, August 2015, pp. 1-6.
2. Chowdhury, A.N., Chen, P.H.*, and Tiong, R.L.K. (2015). “Credit Enhancement Factors for the Financing of Independent Power Producer (IPP) Projects in Asia.” International Journal of Project Management, Vol. 33, No. 7, October 2015, pp. 1576-1587. (SSCI/EI)
3. Chen, P.H., Ong, C.F., and Hsu, S.C* (2016). “The Linkages between Internationalization and Environmental Strategies of Multinational Construction Firms.” Journal of Cleaner Production, Vol. 116, March 2016, pp. 207-216. (SCI/EI)
4. Chen, P.H., Ong, C.F., and Hsu, S.C* (2016). “Understanding the Relationships between Environmental Management Practices and Financial Performances of Multinational Construction Firms.” Journal of Cleaner Production, Vol. 139, December 2016, pp. 750-760. (SCI/EI)
5. Chen, P.H.* and Tsay, I.S. (2017). “Transmission Network Price Setting Model for the Promotion of Liberalized Market for the Power Industry in Taiwan.” Energy Policy, Vol. 104, May 2017, pp. 100-111. (SCI/SSCI/EI)
6. Chen, P.H.* and Nguyen, T.C. (2017). “Integrating Web Map Service and Building Information Modeling for Location and Transportation Analysis in Green Building Certification Process.” Automation in Construction, Vol. 77, May 2017, pp. 52-66. (SCI/EI)
7. Li, Y.*, Chen, X., Wang, X, Xu, Y., and Chen, P.H. (2017). “A Review of Studies on Green Building Assessment Methods by Comparative Analysis.” Energy and Buildings, Vol. 146, July 2017, pp. 152-159. (SCI/EI)
8. Kao, C.Y., Lin, M.F., Nguyen, N.T., Tsai, H.H., Chang, L.M., Chen, P.H., and Chang, C.T.* (2018). “Hexamethyldisilazane Removal with Mesoporous Materials Prepared from Calcium Fluoride Sludge.” Journal of Nanoscience and Nanotechnology, Vol. 18, No. 5, May 2018, pp. 3314-3319. (SCI/EI)

9. Chen, P.H.* and Peng, T.T. (2018). “Value-at-Risk Model Analysis of Taiwanese High-tech Facility Construction.” Journal of Management in Engineering, ASCE, Vol. 34, No. 2, March 2018, DOI: https://doi.org/10.1061/(ASCE)ME.1943-5479.0000585. (SCI/EI)
10. Shen, H.K., Chen, P.H.*, and Chang, L.M. (2018). “Human-Visual-Perception-Like Intensity Recognition for Color Rust Images Based on Artificial Neural Network.” Automation in Construction, Vol. 90, June 2018, pp. 178-187. (SCI/EI)
11. Lin, Y.H., Chen, Q., Liao, P.C.*, Chen, P.H., and Cheng, S. (2018). “The Moderating Effect of Guanxi on the Dynamic Capacity and Competitive Advantage of Chinese International Contractors.” Advances in Civil Engineering, Vol. 2018, Article ID 3638152, 17 pages, 2018, DOI: https://doi.org/10.1155/2018/3638152. (SCI)
12. Chen, P.H.* and Nguyen, T.C. (2019). “A BIM-WMS Integrated Decision Support Tool for Supply Chain Management in Construction.” Automation in Construction, Vol. 98, February 2019, pp. 289-301. (SCI/EI)
13. Lin, M.F., Nguyen, N.T., Chang, C.T.*, and Chen, P.H.* (2019). “Preparation of Fe-SBC from Urban Sludge for Organic and Inorganic Arsenic Removal.” Journal of Nanoscience and Nanotechnology, Vol. 19, No. 5, May 2019, pp. 2658-2663. (SCI/EI)
14. Nguyen, Q.L. and Chen, P.H.* (2019). “Statistical Analysis of Risks for Construction Projects in Vietnam: From Private Owners’ Perspective.” SSRG International Journal of Civil Engineering (SSRG-IJCE), Vol. 6, No. 1, January 2019, pp. 13-21, ISSN: 2348-8352.
15. Lei, K.T., Tang, J.S., and Chen, P.H.* (2019). “Numerical Simulation and Experiments with Green Roofs for Increasing Indoor Thermal Comfort.” Journal of the Chinese Institute of Engineers, Vol. 42, DOI: https://doi.org/10.1080/02533839.2019.1585207. (SCI/EI)
16. Liu, T.Y.*, Chen, P.H., and Chou, N.N.S. (2019). “Sustainability-based Construction of the Restoration Projects for the Guguan Hydropower Station.” Electronic Journal of Structural Engineering, ISSN 1443-9255, accepted. (ESCI/EI)
17. Shau, H.J., Liu, T.Y., Chen, P.H.*, and Chou, N.N.S. (2019). “Sustainability Practices for the Suhua Highway Improvement Project in Taiwan.” International Journal of Civil Engineering, Vol. 17, No. 10, October 2019, pp. 1631-1641, DOI: https://doi.org/10.1007/s40999-019-00415-4. (SCI/EI)
18. Liu, T.Y., Chen, P.H.*, and Chou, N.N.S. (2019). “Comparison of Assessment Systems for Green Building and Green Civil Infrastructure.” Sustainability (Special Issue: Sustainable Habitat), Vol. 11, No. 7, April 2019, DOI: https://doi.org/10.3390/su11072117. (SCI/SSCI)
19. Lin, Y.H., Shi, B, Chen, P.H.*, Xu, Z., and Liu, H. (2019). “A Grey-BPNN Model for Evaluating the Competitiveness of Chinese Contractors in the High-Speed Rail Market in Europe.” Advances in Civil Engineering, Vol. 2019, May 2019, Article ID 5858094, 19 Pages, DOI: https://doi.org/10.1155/2019/5858094. (SCI)
20. Li, Y.*, Song, H., Sang, P., Chen, P.H., and Liu, X. (2019). “Review of Critical Success Factors (CSFs) for Green Building Projects.” Building and Environment, Vol. 158, July 2019, pp. 182-191. (SCI/EI)
21. Tsay, I.S. and Chen, P.H.* (2019). “A Dual Market Structure Design for the Reform of an Independent Power Grid System – The Case of Taiwan.” Energy Reports, Vol. 5, November 2019, pp. 1603-1615. DOI: https://doi.org/10.1016/j.egyr.2019.11.001. (SCI/EI)

22. Hsieh, C.M., Chen, C.J., Peng, T.T., Chen, S., and Chen, P.H. (2019). "The Relationship between Workplace Justice and Self-reported Occupational Accidents in Construction Employees of Taiwan." Industrial Health, November 2019, DOI: https://doi.org/10.2486/indhealth.2019-0131. (SCI)

B. ISI-indexed conference papers:

1. Chowdhury, A.N.*, Chen, P.H., and Tiong, R.L.K. (2015). "Credit Enhancement and Its Risk Factors for IPP Projects in Asia: An Analysis by Network Theory." Procedia Engineering, Vol. 125, pp. 133-142. (EI)
2. Chen, P.H.* and Nguyen, T.C. (2016). "Integrating BIM and Web Map Service (WMS) for Green Building Certification." Procedia Engineering, Vol. 164, pp. 503-509. (EI)

Refereed Conference Papers

1. Chen, P.H. and Nguyen, T.C. (2015). "Utilizing Building Information Modeling (BIM) in Green Building Certification." Proceedings of the Fourth International Congress on Natural Sciences and Engineering (ICNSE 2015), May 7-9, 2015, Kyoto, Japan.
2. Chen, P.H. and Nguyen, T.C. (2015). "Integration of Building Information Modeling (BIM) and LEED's Location and Transportation Category." Proceedings of the 32nd International Symposium on Automation and Robotics in Construction and Mining (ISARC 2015), June 15-18, 2015, Oulu, Finland.
3. Ong, C.F., Chen, P.H., and Hsu, S.C. (2015). "Internationalization and Environmental Strategies of Multinational Construction Firms" Proceedings of the Creative Construction Conference 2015 (CCC2015), June 21-24, 2015, Krakow, Poland.
4. Chowdhury, A.N. and Chen, P.H. (2015). "Credit Enhancement and its Risk Factors for IPP Projects in Asia: An Analysis by Network Theory." Proceedings of the 6th International Conference on Construction Engineering and Project Management (ICCEPM 2015), October 11-14, 2015, Busan, Korea.
5. Chen, P.H. and Su, C.L. (2015). "Development of an Optimized Value Engineering System for the Retail Industry." Proceedings of the 28th KKHTCNN Symposium on Civil Engineering (KKHTCNN 2015), November 16-18, 2015, Bangkok, Thailand, pp. 188. (Abstract)
6. Chen, P.H. and Nguyen, T.C. (2015). "A Framework to Enhance BIM Application in Green Building Certification Analyses." Proceedings of the 28th KKHTCNN Symposium on Civil Engineering (KKHTCNN 2015), November 16-18, 2015, Bangkok, Thailand.
7. Hung, S.M., Chen, P.H., and Yao, D.T.C. (2016). "The Trend of Risk Management for Construction industry in Taiwan." Proceedings of the 14th East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-14), January 6-8, 2016, Ho Chi Minh City, Vietnam, pp. 472-473. (Abstract)
8. Chen, P.H. and Chiu, Y.C. (2016). "Appraisal of Green Buildings with the Help of BIM – Taking Residential Buildings for Example." Proceedings of the 14th East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-14), January 6-8, 2016, Ho Chi Minh City, Vietnam, pp. 260-261. (Abstract)

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