

鄭家齊 簡歷 (Chia-Chi Cheng)



【學歷】 Degree

1984-1988 台灣大學土木工程系畢業

1989-1990 美國康乃爾大學土木與環境工程學系碩士

1990-1993 美國康乃爾大學土木與環境工程學系博士

Bachelor National Taiwan University/ Civil Engineering(1988)

M.Eng. Cornell University/ Civil and Environmental Engineering (1989)

Ph. D. Cornell University/ Civil and Environmental Engineering (1993)

【現任】 Present

助理副校長兼教務長

營建工程系講座教授

Assistant Vice President, Dean of Academic Affairs

Chair Professor, Department of Construction Engineering,

【經歷】

2020-2023 朝陽科技大學教授兼非破壞檢測研發中心主任

2016-2020 朝陽科技大學教授兼理工學院院長

2012-2016 朝陽科技大學教授兼營建工程系主任

2006-2010 朝陽科技大學營建工程系副教授兼理工學院秘書

【專業服務】 Services

2021-2025 社團法人台灣混凝土學會理事

2020-2024 國科會土木水利學門複審委員

- 2020-今 台中市營造業審議委員會委員
- 2020-今 經濟部水利構造物檢查及安全評估小組委員
- 2022-今 中國工程師學會女性工程師委員會委員
- 2021-今 國家教育研究院土木工程名詞審議會審議委員
- 2013-今 工程及科技教育認證認證團成員(IEET)
-
- 2019-2021 社團法人台灣混凝土學會第七屆常務理事
- 2017-2025 社團法人台灣混凝土學會教育執行委員會主任委員
- 2017-2019 社團法人台灣混凝土學會第六屆理事
- 2013-2018 中國土木水利學會第 21 屆及 22 屆編輯出版委員會委員
- 2013~2018 中國土木水利學會第 21 屆及 22 屆學生活動委員會委員
- 2013-2018 中國土木水利學會第 21 屆及 22 屆學術與教育委員會委員
- 2013-2022 中國土木水利學會中部分會委員

【榮譽】 Awards, Recognitions and Honors

- 2023 Rewarded excellent scholar from Ministry of Science and Technology in Taiwan
- 2022 Rewarded excellent scholar from Ministry of Science and Technology in Taiwan
- 2017 Foreign member of the Academy of Engineering in Poland
- 2016 Rewarded excellent scholar from Ministry of Science and Technology in Taiwan
- 2014 Rewarded excellent scholar from Ministry of Science and Technology in Taiwan
- 2005 Excellent research project by Atomic Energy Council of Taiwan, “producing and assessing cracked and repaired thick concrete plate specimens”
- 2015 Best paper award, 2015 TCI conference for Concrete Engineering, Taichung, Taiwan..
- 2010 Best paper award, 15th Conference on Non-destructive Testing, Kaoshong, Taiwan.
- 2002 Excellent Teacher Award, Chaoyang University of Technology
- 2000 Excellent Class Advisor Award, Chaoyang University of Technology
- 1997-2015 Excellent Industrial-Academic Cooperation and Academic Performance Award, Chaoyang University of Technology

【國際期刊評審】 Article Review

Construction & Building Materials 期刊評審

Tunneling and Underground Space Technology 期刊評審

NDT & E International 期刊評審

Buildings 期刊評審

Sensors 期刊評審

Automation in Construction 期刊評審

【國科會計畫】

111	專題研究計畫 (一般研究計畫)	使用表面波頻散特性評估混凝土的施工縫、冷縫、剪力裂縫和修補裂縫	2022/08/01~ 2025/07/31	計畫主 持人	2,820,000
109	專題研究計畫 (一般研究計畫)	以表面波群波波速頻散特徵評估 RC 構件災後火害深度及鋼筋握裹狀況 II 109-2221-E-324 -006 -MY2	20200801~ 20221231	計畫主 持人	1,970,000
108	專題研究計畫 (一般研究計畫)	以表面波群波波速頻散特徵評估 RC 構件災後火害深度及鋼筋握裹狀況 108-2221-E-324 -003 -	20190801~ 20201031	計畫主 持人	783,000
104	專題研究計畫 (一般研究計畫)	以表面波群波波速頻散曲線評估鋼筋混凝土及道路結構剖面勁度 104-2221-E-324 -022 -MY3	20150801~ 20181031	計畫主 持人	2,378,000
104	專題研究計畫 (提升私校研發能量專案計畫)	結合 NDT 的自動化檢測技術在土木結構健康診斷之應用 104-2632-E-324 -001 -	20150801~ 20161014	共同主 持人	3,179,000
103	專題研究計畫 (一般研究計畫)	塔柱及煙囪之非破壞檢測與動態監測 (II) 103-2221-E-324 -003 -	20140801~ 20150930	共同主 持人	514,000
103	專題研究計畫 (一般研究計畫)	以遠距微波位移檢測儀量測移動車載重所造成橋梁反應進行橋梁損傷評估的可行性研究(II) 103-2221-E-005 -099 -	20140801~ 20151031	共同主 持人	514,000

102	專題研究計畫 (一般研究計畫)	以遠距微波位移檢測儀量測移動車載重所造成橋梁反應進行橋梁損傷評估的可行性研究 102-2221-E-324 -019 -	20130801~ 20141031	共同主 持人	480,000
102	專題研究計畫 (一般研究計畫)	塔柱及煙囪之非破壞檢測與動態監測 102-2221-E-324 -015 -	20130801~ 20140731	共同主 持人	547,000
101	專題研究計畫 (一般研究計畫)	以板波群波速時頻譜快速大範圍檢測混凝土板內瑕疵及混凝土後方掏空狀況 101-2221-E-324 -020 -MY3	20120801~ 20151015	計畫主 持人	1,995,000
100	專題研究計畫 (一般研究計畫)	大地與結構監測資料於設計地震需求及結構健康診斷之應用--子計畫:老劣化鋼板補強混凝土結構快速檢測技術之開發(III) 100-2625-M-324 -001 -	20110801~ 20120731	計畫主 持人	734,000
099	專題研究計畫 (一般研究計畫)	結構材料性質老劣化之非破壞快速檢測技術開發--子計畫:老劣化鋼板補強混凝土結構快速檢測技術之開發(II) 99-2625-M-324 -003 -	20100801~ 20110731	計畫主 持人	634,000
098	專題研究計畫 (一般研究計畫)	非破壞檢測技術應用於混凝土層狀結構性質與應力波傳訊號關聯性之基礎研究(II) 98-2221-E-324 -016 -MY2	20090801~ 20110915	共同主 持人	1,077,000
098	專題研究計畫 (一般研究計畫)	結構材料性質老劣化之非破壞快速檢測技術開發--子計畫:老劣化鋼板補強混凝土結構快速檢測技術之開發(I) 98-2625-M-324 -002 -	20090801~ 20100731	計畫主 持人	654,000

【期刊論文】 Journal Paper

1. Ying-Tzu Ke, Yung-Chiang Lin, Chia-Chi Cheng, Jien-Chen Chen, Yu-Hung Pai, Keng-Tsang Hsu "Preliminary study on defect detection for sandwich composites using Impact-Echo method", Feb.(2023), International Journal of Applied Science and Engineering, Vo.l. 20, No. 2, pp. 1-6.
2. Chia-Chi Cheng, Yung-Chiang Lin, Ying-Tzu Ke, Keng-Tsang Hsu, "Detecting the interfacial bonding of concrete-filled steel tube columns after fire by two stress wave-based methods--A case study", Case Studies in Construction Materials, Feb.(2022), Vol. 17. e01399
3. Chia-Chi Cheng , Yung-Chiang Lin *, Ying-Tzu Ke , Fong-Jhang Ke, "Using 3-D

velocity contour plots to detect voids in grouted tendon ducts in post-tensioned concrete construction”, *Construction and Building Materials*, 331 29 March (2022) 127277.

4. Chia-Chi Cheng, Yung-Chiang Lin*, Chih-Peng Yu, Keng-Tsang Hsu, “A Quick Method to Construct 3-D Velocity Contour Map for Assessing Anomalies in Concrete”, *Construction and Building Materials*, 285, 24 May 2021, <https://doi.org/10.1016/j.conbuildmat.2021.122765> (Impact Factor: 4.419, ranking (10/63,86/314, 11/134))
5. Ying-Tzu Ke, Chia-Chi Cheng*, Yung-Chiang Lin, Yi-Qing Ni, Keng-Tsang Hsu, Tai-Tung Wai, “Preliminary Study on Assessing Delaminated Cracks in Cement Asphalt Mortar Layer of High-Speed Rail Track Using Traditional and Normalized Impact–Echo Methods” *Sensors* 2020, 20(11), May 2020, doi:10.3390/s20113022
6. Ying-Tzu Ke, Chia-Chi Cheng, Chi-Luen Huang, Keng-Tsang Hsu, Yung-Chiang Lin, “Quantitative Assessment of Bonding between Steel Plate and Reinforced Concrete Structure using Dispersive Characteristics of Lamb Waves”, *NDT and E International*, 102, 311-321, March 2019 (Impact factor: 2.934, ranking: 6/33)
7. Wen-Hsiang Tsai, Yiching Lin, Chia-Chi Cheng, “Detecting the depth of weak layer in concrete using R-wave dispersion techniques”, *NDT and E International*, 98, 161–170, Sep. 2018 (Impact factor: 2.934, ranking: 6/33)
8. Meng-Ting Tsai, Chung-Hsien, Shih, Yu-Chun, Lin and Chia-Chi Cheng : “Inspection of Hyperbolic Reinforced Concrete Shells – Luce Memorial Chapel – based on Nondestructive Testing Method”, *Key Engineering Materials*, Vol. 735, pp113-118, 2017 (EI, scopus)
9. Hsu, K.-T., Cheng, C.-C., Tao, H.-Y., Chiang, C.-H., “Evaluation of the depth of surface deterioration for concrete structure using dispersion characteristics of surface wave”, *AIP Conference Proceedings*, Volume 1806, 16 February 2017, No. 080017 (EI, scopus, SCI)
10. Hsu, K.-T., Chiang, C.-H., Cheng, C.-C., “Assessing the integrity of spillway foundations”, *AIP Conference Proceedings*, Volume 1806, 16 February 2017, No. 080007 (EI, scopus, SCI)
11. 鄭家齊，潘吉齡，張國學，李亞，「兩岸土木營建院系共同指導研究生案例」，*朝陽學報*，Vol 21，2016年7月，頁數73-84。
12. 鄭家齊，許耿蒼，黃啟倫，林宗志，潘彥廷，「鋼板補強結構鋼板黏結狀況非破壞檢測 最新發展及案例」，*結構工程*，2015年9月，Vol. 30. No. 3，pp.67-89.
13. Chih-Peng Yu, Jiunnren Lai, Chia-Chi Cheng & Chi-Hung Chiang : On prediction of stiffness variation of slender members using impact responses, *Journal of the Chinese Institute of Engineers*, Vol. 36, no.5, pp 627-637, July, 2013. (SCI , EI)
14. Chih-Peng Yu, Jiunnren Lai, Chia-Chi Cheng, and Chih-Hung Chiang, “Direct Evaluation of Effective Lengths of Vibrating Cables using Responses from Dual/Three Transducers”, *Journal of Applied Science and Engineering*, Vol.16, No.1, pp. 51-60, March, 2013. (EI)
15. Chih-Peng Yu and Chia-Chi Cheng, “Dynamic analysis of a cable-stayed bridge using continuous formulation of 1-D linear member”, *Earthquakes and Structures*, Vol. 3, No. 3-4, pp. 271-295, June-August, 2012. (SCI , EI)
16. Hsu, K.-T., Cheng, C.-C., Yu, C.-P., Chiang, C.-H. “Evaluation of the dynamic characteristics of an extradosed bridge using microwave interferometer”, *Advanced Materials Research* vol. 374-377, pp. 2426-2429, 2012. (EI)
17. Chia-Chi Cheng, Ying-Tzu Ke and Keng-Tsang Hsu, “Using Lamb Waves to

- Evaluate Debonding of Steel Plate Strengthened Concrete”, *Materials Transactions*, Vol. 53, No. 2, January 25, 2012 (2012), pp. 274-278. (SCI)
18. Hsu, K.-T., Cheng, C.-C., Yu, C.-P., Chiang, C.-H. “Evaluation of the dynamic characteristics of an extradosed bridge using microwave interferometer”, *Advanced Materials Research* vol. 374-377, pp. 2426-2429, 2012. (EI)
 19. 鄭家齊、余志鵬、許耿蒼「非接觸式微波檢測」，*土木水利會刊*，2011年7月，Vol. 38. No. 3，pp.61-68.
 20. Chia-Chi Cheng, Chih-Peng Yu, and Keng-Tsang Hsu, “Damage Assessment of a Prestressed Simply Supported Bridge Using Microwave Interferometer”, *Journal of Advanced Materials Research*, Vol. 250 – 253, May, 2011, p. 1082-1087, (EI).
 21. 許耿蒼，鄭家齊，林宜清，江支弘，「混凝土堤防構造物掏空之檢測」，*混凝土科技*，2010年10月，Vol. 4. No. 4，pp. 23-35
 22. 鄭家齊；林宜清「新舊混凝土介面黏結品質之檢測」，*混凝土科技*，2010年10月，Vol. 4. No. 4，pp.57-70
 23. C. C. Cheng, C. P. Yu, T. Liou “Evaluation of Interfacial Bond Condition between Concrete Plate-Like Structure and Substrate using the Simulated Transfer Function Derived by IE”, *NDT&E International*, Vol.42, July, 2009, pp.678–689 (SCI, EI)
 24. T. Liou*, C. Hsiao, C. C. Cheng, N. Chang, “Depth measurement of notches as models for shallow cracks in concrete”, *NDT&E International*, Vol.42, Jan, 2009, pp.69–76 (SCI, EI)
 25. K. T. Hsu*, C. C. Cheng, and Y.C. Lin, “Use Impact-echo Method to Evaluate Bond of Reinforced Concrete Subjected to Early-Age Vibration”, *Journal of Solid Mechanics and Materials Engineering*, Vol. 2, No. 12, Dec. 2008, pp. 1528-1538.
 26. 鄭家齊*、林宜清，「敲擊回音法在橋樑檢測的應用」，*土木水利會刊*，2008年10月，Vol. 35, No. 5，pp11-22.
 27. C. C. Cheng, T. M. Cheng, and C. H. Chiang*, “Defect detection of concrete structures using both infrared thermography and elastic waves”, *Automation in Construction*, Vol. 18, 2008, pp. 87–92. (SCI, EI)
 28. C. C. Cheng*, “Using short-pulse ground penetration radar to investigate the concrete deterioration after high-temperature exposure”, *MODERN PHYSICS LETTERS B*, MAY, 2008, Vol. 22, No. 11, pp. 995-1000. (SCI, EI)
 29. Y.C. Lin*, K. T. Hsu, C. C. Cheng, “Evaluating bond quality at steel/concrete interfaces using the normalized impact-echo spectrum”, *MODERN PHYSICS LETTERS B*, MAY, 2008, Vol. 22, No. 11, pp. 1001-1006. (SCI, EI)
 30. J. Lai*, C. P. Yu, C. C. Cheng, “Assessment of local stiffness for slender concrete members using impulse response test”, *MODERN PHYSICS LETTERS B*, MAY, 2008, Vol. 22, No. 11, pp. 1171-1176. (SCI, EI)
 31. C. M. Hsiao*, C. C. Cheng, T. Liou, Y. Juang, “Detecting flaws in concrete blocks using the impact-echo method”, *NDT&E International*, Vol. 41, March, 2008, pp. 98–107. (SCI, EI)
 32. C. C Cheng*, Y. C. Lin, C. M. Hsiao and H.C. Chang, “Evaluation of Simulated Transfer Functions of Concrete Plate Derived by Impact-Echo Method,” *NDT&E International*, Vol. 40, Issue 3, April 2007, Pages 239-249 (SCI, EI)
 33. 鄭家齊、裴廣智、江支弘，「交通設施損害檢測實例」*土木水利*，第34卷，第3期，pp. 77-92(2007.7)。
 34. M. T. Hu*, Y. Lin, and C. C. Cheng, “Method for Determining Internal P-Wave Speed and Thickness of Concrete Plates”, *ACI Materials Journal*, vol. 103, No. 5, Sep-Oct 2006, pp. 327-335. (SCI, EI)
 35. C. P Yu*, C. C. Cheng and J. Lai, “Application of Closed-Form Solution for Normal

- Surface Displacements on Impacted Half Space : Quantification of Impact-Echo Signals,” International Journal of Applied Science and Engineering, vol. 4, No. 2, Sep. 2006, pp. 127-150.
36. C. C. Cheng*, K.C. Pei, and J.H. Wu, “DEVELOPMENT OF IMAGING TECHNIQUES FOR EVALUATING THE RC PLATE CONTAINING EPOXY-REPAIRED DELAMINATION” the Proceedings of 1st International Conference on Advanced Nondestructive Evaluation, Key Engineering Materials, vols 321-323, August, 2006, pp.348-351. (EI)
 37. C. P.Yu*, C. C. Cheng and C. H. Chiang, “Damage Assessment of Reinforced Concrete Beams by Complex Ratios of Transfer Functions,” the Proceedings of 1st International Conference on Advanced Nondestructive Evaluation, Key Engineering Materials, vols 321-323, August, 2006, pp.357-362. (EI)
 38. Y. C..Lin* C. K. Yang and C. C. Cheng, “Calibration of an Impacting Device and Its Application to the Normalized Spectral Analysis of Impact-echo Tests,” the Proceedings of 1st International Conference on Advanced Nondestructive Evaluation, Key Engineering Materials, vols 321-323, August, 2006, pp.381-385. (EI)
 39. C. H. Chiang* and C. C. Cheng, ‘Detecting Rebars and Tubes Inside Concrete Slabs Using Continuous Wavelet Transform of Elastic Waves’, Journal of Mechanics, Vol. 20, No. 4, 2004, pp. 297-302. (SCI, EI)
 40. C. C. Cheng*, C. P. Yu, and H. C. Chang, ‘On the Feasibility of Deriving Transfer Function from Rayleigh Wave in the Impact-Echo Displacement Waveform’, the Proceedings of 'Advances in Nondestructive Evaluation', Key Engineering Materials, Vols. 270-273, p 1484-1488, 2004. (EI)
 41. C. C. Cheng* and H. C. Chiou, 'Evaluating the Bond-Loss of Reinforcing Bar in New Concrete Construction Subjected to Earthquake Using the Impact-Echo Method', Journal of the Chinese Institute of Engineers, Vol. 25, No. 4, 2002, pp. 425-436. (SCI)
 42. 林宜清，胡盟宗，鄭家齊，”水泥砂漿裂縫開口寬度與繞射波之互制效應研究”，中國土木水利工程學刊，第十一卷，第三期， pp. 615-620， 88年9月
 43. C. C. Cheng and M. Sansalone, 'Determining the Minimum Crack Width can be detected using the Impact-Echo Method-Part1 Experimental Study', RILEM: Materials and Structures, V.28, 1995, pp.74-82.(SCI)
 44. C. C. Cheng and M. Sansalone, 'Determine the Minimum Crack Width that can be detected using the Impact-Echo Method-Part2. Numerical Fracture Analyses', RILEM: Material and Structures, V.28, 1995, pp.125-132.(SCI)
 45. C. C. Cheng and M. Sansalone, 'Effects on Impact-Echo Signals Caused by Steel Reinforcing Bars and Voids around Bars', ACI Materials Journal, V.90, Sep-Oct 1993, pp.421-434. (SCI)
 46. C. C. Cheng and M. Sansalone, 'The Impact-Echo Response of Concrete Plates Containing Delaminations: Numerical, Experimental and Field Studies' RILEM: Material and Structures, V.26, 1993, pp.274-285. (SCI)

【研討會論文】 Conference Paper

1. Dr. Yung-Chiang Lin, Dr. Chia-Chi Cheng*, Ms Ting-Yu Lin, Ms Chia-Yu Chang, "Numerical Investigation of Evaluating the Degree of Damage in Concrete Plate Cold Joints through Surface Wave Dispersion Velocity Profiles", 20th WCNDT, World Conference of Non Destructive Testing，韓國仁川，2024，5，27-31.

2. Ying-Tzu Ke, Chia-Chi Cheng*, Yung-Chiang Lin, Keng-Tsang Hsu, Dong-Long Jiang, and Ting-Yu Lin, "Using the 3-D Velocities Contour Plot of Surface Waves to Evaluate the Fire-Damaged Concrete Slabs", Proceedings of Smart Structures and Materials & Nondestructive Evaluation and Health Monitoring : Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, Civil Infrastructure, and Transportation XVII (SPIE), Paper 12487-65, Long Beach, CA, March 2023. (EI, SCOPUS)
3. Chih-Hung Chiang, Kousar Jahan, Muhamad Hidayat, David Kumar, Chia-Chi Cheng, "Evaluation of mechanical properties and damage sensing performance of functionalized carbon nanotube modified epoxy-carbon fiber", Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, Civil Infrastructure, and Transportation XVII, (SPIE), Long Beach, CA, March 2023. (EI, SCOPUS)
4. K Hsu, Chia-Chi Cheng, S Hsu, P Yu, "Rapid assessment of fire damage to reinforced concrete structures using the surface wave method with contact and non-contact receivers", Proceedings of NDT-CE 2022, Zurich, Switzerland, Nov. 2022.
5. 張凱傑，廖竟宏，鄭家齊，「利用表面波或板波頻散特徵開發鋼筋混凝土版火害深度的現場快速檢測技術之初步研究」，台灣混凝土學會 2021 年混凝土工程研討會，2021，11 月，高雄。
6. 廖竟宏，張凱傑，鄭家齊，「由雷利波頻散曲線反算火害劣化混凝土板的剪力波速剖面之初步研究」，台灣混凝土學會 2021 年混凝土工程研討會，2021，11 月，高雄。
7. 許耿蒼、蔡季恒、鄭家齊、江支弘，「以應力波檢測混凝土結構裂縫修補狀況之研究」，中華民國第 15 屆結構工程及第 5 屆地震工程研討會，2020，9 月，台中。
8. 鄭家齊、鄭絜心、廖竟宏、張凱傑，「以表群波波速頻散特徵評估 RC 構件災後火害劣化深度之初步研究」，中華民國第 15 屆結構工程及第 5 屆地震工程研討會，2020，9 月，台中。
9. Y-C Lin, C-C Cheng*, C-H Chiang and K-T Hsu, "Quantitative assessment of interfacial condition of cold joint using surface wave group velocity profile", 7th International Conference on Euro Asia Civil Engineering Forum, September 2019, IOP Conf. Series: Materials Science and Engineering 615 (2019) 012010, Stuttgart, Germany (EI, SCOPUS)
10. Cheng, C.-C., Ni, Y.Q., Hsu, K.-T., Wai, T.-T., "Preliminary study on assessing delaminated cracks in cement asphalt mortar layer of high-speed rail track using normalized impact-echo method", IWSHM 2019; Stanford University, Stanford; United States; 10 September 2019, Proceedings of the 12th International

- Workshop on Structural Health Monitoring, Volume 2, 2019, pp. 2870-2877 (EI, SCOPUS)
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