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其它經歷：台灣非破壞協會學術委員

研究領域：非破壞檢測、混凝土材料、結構振動監測、跨領域整合應用

著作：最近 5 年發表期刊論文 11 篇、研討會論文 6 篇

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1) General Information

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2) Academic Background and Degrees

- B.S. | Department of Construction Engineering
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- M.S. | Department of Construction Engineering
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- Ph.D. | Department of Civil Engineering, National Chung Hsing University

3) Selected Publications

Journal paper

1. Y.T. Ke, **Y.C. Lin***, C.C. Cheng, J.C. Chen Y.H. Pai, K.T. Hsu "Preliminary study on defect detection for sandwich composites using Impact-Echo method", International Journal of Applied Science and Engineering, 20(2), 2022312.
2. **Y.C. Lin**, Y Lin*, and C-C Cheng, "A unified equation for prediction of

- concrete strength at various ages using the ultrasonic pulse velocity”, *applied sciences*, 12, 8416.
3. C.C. Cheng, **Y.C. Lin***, Y.T. Ke, K.T. 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*, Vol. 17, e01399.
 4. C.C. Cheng, **Y.C. Lin***, Y.T. Ke, F.J. Ke “Using 3-D velocity contour plots to detect voids in grouted tendon ducts in post-tensioned concrete construction”, *Construction and Building Materials*, Vol. 331, 127277.
 5. D. Kumar, C-H Chiang*, **Y.C. Lin** “Experimental vibration analysis of large structures using 3D DIC technique with a novel calibration method”, *Journal of Civil Structural Health Monitoring*, vol. 12, pp. 391–409.
 6. C.C. Cheng, **Y.C. Lin***, C.P. Yu, K-T Hsu “A Quick Method to Construct 3-D Velocity Contour Map for Assessing Anomalies in Concrete” *Construction and Building Materials*, Vol. 285, 122765.
 7. **Y.C. Lin***, C.H. Chiang, C.P. Yu, D. Kumar, K.T. Hsu “Application of DIC method to modal vibration study for structure health monitoring of WT tower”. *International Journal of Applied Science and Engineering*, Vol. 18(3), 2020291.
 8. **Y.C. Lin**, C.H. Chiang*, C.P. Yu, K.T. Hsu “Deterministic deterioration modeling of wind turbines toward the failure identification – a modal curvature approach”, *Journal of Structural Integrity and Maintenance*, Vol. 5(2), pp. 104-112.
 9. C.H. Chiang, H.Y. Tao, **Y.C. Lin** “Transient thermal analysis of layered media based on thermal quadrupoles”, *International Journal of Applied Science and Engineering*, 18(3), 2020312.
 10. Y.T. Ke, C.C. Cheng*, **Y.C. Lin**, Y.Q. Ni, K.T. Hsu, and T.T. 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*, vol. 20(11), 3022.
 11. **Y.C. Lin**, Y. Lin* and C.C. Chan “Use of ultrasonic pulse velocity to establish strength of concrete at various ages”, *Magazine of Concrete Research*, Vol. 68.14, pp.739-749.
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Conference paper

1. Y.T. Ke, C.C. Cheng, Y.C. Lin, K.T. Hsu, D.L. Jiang, T.Y. Lin “Using the 3-D velocities contour plot of surface waves to evaluate the fire-damaged concrete slabs” *Proceedings Volume 12487, SPIE Smart*

2. D. Kumar, C.H. Chiang, Y.C. Lin "Identification and correlation of natural patterns using a hybrid BRISK-DIC method" Proceedings Volume 11592, SPIE Smart Structures + Nondestructive Evaluation, 2021.
 3. D. Kumar, C.H. Chiang, Y.C. Lin, and Keng-Tsang Hsu "3D vibration studies of large rotating structures using DIC", Proc. SPIE 11381, SPIE Smart Structures + Nondestructive Evaluation, 2020.
 4. 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 of Euro Asia Civil Engineering Forum 2019, 108.09.30-108.10.02.
 5. Y.C. Lin*, C.H. Chiang, C.P. Yu, K.T. Hsu "Identifying the stiffness reduction in the supporting tower of wind turbines: a numerical approach", SPIE Smart Structures + Nondestructive Evaluation, 2019, 108.03.03-108.03.07
 6. Y. Lin, Y.C. Lin, Y.F. Lin and Y.L. Hsiao "Influence of moisture content on prediction of hardened concrete strength using the ultrasonic pulse velocity," Proceedings of the Fourth ACF International Conference, 2010.11.28-12.01, Taipei, Taiwan, CDROM. (2010).
 7. Lin, Y.C., Lin, Y., Lin Y.F. "Establishment of the relationship between the plus velocity and strength of concrete at various ages," 4th International Conference on Construction Materials, compact disc, S1-3-4, Nagoya, Japan. (2009)
 8. 林永強、王啟明、余志鵬 "損傷構件振動行為模擬之動力勁度折減研究"，中華民國第八屆結構工程研討會，2006年9月2-4日，南投縣日月潭青年活動中心。(2006)
 9. 林永強，余志鵬，賴俊仁 "以低頻波動反應推估軸向桿件局部勁度性質之數值研究"，中華民國力學學會第29屆全國力學會議，2005年12月16-17，清華大學。(2005)
 10. 林永強，余志鵬，陳鴻智 "以阻抗傳遞矩陣估計基樁動力性質之研究"，第12屆非破壞檢測技術研討會，中華民國非破壞檢測協會年度會議，2004年4月30日至5月1日，論文集 pp198-205，南投縣日月潭青年活動中心。(2004)
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