BIOGRAPHICAL SKETCH

Jacob J. Lin

Assistant Professor of Civil Engineering National Taiwan University Rm 710 Civil Engineering Research Building No.188, Sec. 3, Sinhai Rd., Taipei, Taiwan, 10688 jacoblin@ntu.edu.tw +886 2 3366-4369

(a) Education & Training

(b) Research & Professional Experience

Assistant Professor of Civil Engineering, National Taiwan University	2020 - present
Lead VDC+Lean Manager, Reconstruct	2015 - 2020
Research Assistant of CEE/CS, University of Illinois at Urbana-	2014 - 2020
Champaign	
Visiting Scholar of Construction Management, University of	2012 - 2013
Washington	
Research Assistant of Civil Engineering, National Taiwan University	2008-2012

(c) Publications

Most closely related

- Wang, T.H., Pal, A., **Lin, J.J.** and Hsieh, S.H., 2023. Construction Photo Localization in 3D Reality Models for Vision-Based Automated Daily Project Monitoring. Journal of Computing in Civil Engineering, 37(6), p.04023029.
- Pal, A., **Lin, J.J.**, Hsieh, S.H. and Golparvar-Fard, 2023. Activity percent complete measurement of under-construction building elements through 3D informed semantic segmented orthographic view. Automation in Construction, (Accepted).
- Pal, A., **Lin, J.J.**, Hsieh, S.H. and Golparvar-Fard, M., 2023. Automated vision-based construction progress monitoring in built environment through digital twin. Developments in the Built Environment, p.100247.
- 4 **Lin, J.J.** and Golparvar-Fard, M., 2021. Visual and Virtual Production Management System for Proactive Project Controls. *Journal of Construction Engineering and Management*, 147(7), p.04021058.
- Lin, J.J., Ibrahim, A., Sarwade, S. and Golparvar-Fard, M., 2021. Bridge Inspection with Aerial Robots: Automating the Entire Pipeline of Visual Data Capture, 3D Mapping, Defect Detection, Analysis, and Reporting. *Journal of Computing in Civil Engineering*, 35(2), p.04020064.

Other significant publications

Ham, Y., Han, K.K., **Lin, J.J.** and Golparvar-Fard, M., 2016. Visual monitoring of civil infrastructure systems via camera-equipped Unmanned Aerial Vehicles (UAVs): a review of related works. *Visualization in Engineering*, 4(1), pp.1-8.

- 7 **Lin, J.J.C.**, Hung, W.H. and Kang, S.C., 2015. Motion planning and coordination for mobile construction machinery. *Journal of Computing in Civil Engineering*, 29(6), p.04014082.
- 8 Lin, K.Y., Tsai, M.H., Gatti, U.C., **Lin, J.J.C.**, Lee, C.H. and Kang, S.C., 2014. A user-centered information and communication technology (ICT) tool to improve safety inspections. *Automation in construction*, 48, pp.53-63.
- Wang, Y., Tang, P., Liu, K., Cai, J., Ren, R., Lin, J.J., Cai, H., Zhang, J., El-Gohary, N., Berges, M., Golparvar, M., 2023. Characterizing Data Sharing in Civil Infrastructure Engineering: Current Practice, Future Vision, Barriers, and Promotion Strategies. Journal of Computing in Civil Engineering.
- Lin, J.J., Golparvar-Fard, M., 2020, Construction Progress Monitoring Using Cyber Physical System. Cyber-Physical System in Construction..
- Tseng, P.Y., Lin, J.J., Chan, Y.C., Chen A.Y., 2022. Real-Time Indoor Localization with Visual SLAM for Emergency Response. Automation in Construction.
- Duong, H. and Lin J.J., 2022, Reality Model-based Facility Management Framework for Existing Building. Front. Built Environ. 815672. doi: 10.3389/fbuil.2022.815672
- Lin, J.J.C., Yang, C.E., Hung, W.H. and Kang, S.C., 2013. Accessibility evaluation system for site layout planning—a tractor trailer example. Visualization in engineering, 1(1), pp.1-11.

(d) Synergistic Activities

Reviewer for journals including ASCE JCEM JCCE, Elsevier Automation in Construction, Autonomous Robots, Computers & Industrial Engineering Related award:

- Teaching Excellence Award 2023 National Taiwan University
- Outstanding Reviewer 2022 ASCE Computing in Civil Engineering
- World Economic Forum Future of Construction Ideas Competition, World Economic Forum
- 2016 CMAA Chicago Chapter Scholarship, Construction Management Association of America.
- 2016 William E. O'Neil Research Award, W.E. O'Neil Construction.
- Best Paper Award, 2015 ASCE International Workshop on Computing in Civil Engineering.

Official member of related international organization:

- International Consortium of Construction Engineering and Project Management (ICCEPM)
- Taiwan High-tech Facility Management Committee