Wei Lin

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Biography

Wei Lin is a visiting PhD researcher at Cambridge and a PhD researcher at Tongji. His PhD thesis is aimed at the digital transformation of underground infrastructures. He got his BE from Tongji University and was awarded Shanghai Outstanding Graduate in 2019.

Websites

https://researchgate.net/profile/Wei-Lin-126

https://linkedin.com/in/wei-lin-b065a4275

https://github.com/linwei0763

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Experience

Visiting PhD Researcher, University of Cambridge, 04/2023 – Present

Laboratory Demonstrator, University of Cambridge, 10/2023 – Present

PhD Researcher, Tongji University, 03/2021 – Present

Administrative Assistant, Tongji University, 09/2019 – 02/2021

Graduate Student, Tongji University, 09/2019 – 02/2021

Research Intern, Zhejiang Scientific Research Institute of Transport, 08/2022

Education

University of Cambridge, PhD in Engineering, 04/2023 – Present

Tongji University, PhD in Engineering, 03/2021 – Present

Tongji University, Master of Engineering, 09/2019 – 02/2021

Tongji University, Bachelor of Engineering, 09/2015 – 07/2019

Putian No. 1 Middle School of Fujian Province, 09/2012 – 07/2015

Honors & Awards

China Scholarship Council Scholarship (07/2022)

Shanghai Outstanding Graduate (05/2019)

China National Scholarship (11/2017)

Second Prize of National Zhou Peiyuan Competition on Mechanics (06/2017)

Fluor Scholarship (12/2016)

Xu Aqiong Scholarship (08/2015)

Review

Underground Space (3 reviews)

Supervision

Research on intelligent early warning technology for parametric construction of deep foundation pit in soft soil in Shanghai

Zeyu Wu, Tongji University, Bachelor thesis, 2023

Supervisor: Xiongyao Xie

Co-supervisor: Wei Lin

Ultra-long underground expressway air-ground fusion refinement intelligent measurement and control technology

Meitao Zou, Tongji University, Bachelor thesis, 2022

Supervisor: Xiongyao Xie

Co-supervisor: Wei Lin

Projects

PI

China Scholarship Council [202206260174]

04/2023 – 03/2024

Shanghai Municipal Education Commission [201710247118]

01/2017 – 01/2018

Researcher

Ministry of Science and Technology of the People's Republic of China [2019YFC0605103]

Ministry of Science and Technology of the People's Republic of China [2019YFC0605100]

National Natural Science Foundation of China [52378408

National Natural Science Foundation of China [52038008

National Natural Science Foundation of China [51978431

Science and Technology Commission of Shanghai Municipality [22DZ1203004]

Science and Technology Commission of Shanghai Municipality [20DZ1202004]

Science and Technology Commission of Shanghai Municipality [2017SHZDZX02]

Department of Transport of Yunnan Province [2021-7]

State Grid Shanghai Municipal Electric Power Company [52090W220001]

Guangzhou Metro Design & Research Institute Co., Ltd. [KY-B-2016-018]

Presentations

Understanding tunnel point clouds using 3D deep learning
Norwegian Geotechnical Institute, online, 01/11/2023

Refined perception and management of ring-wise deformation for segmental linings using 3D deep learning and BIM
Eighth International Symposium on Life-Cycle Civil Engineering (IALCCE 2023), Milan, 04/07/2023

The digital twin of shield tunnels for structural analysis
hyperTunnel, online, 05/05/2023

The digital twin of shield tunnels for structural analysis
Mott MacDonald, online, 27/04/2023

Publications

Journal Papers

APA

SCIE, EI, CSCD, PKU

1. Li, K., Xie, X., Zhou, B., Huang, C., Lin, W., Zhou, Y., & Wang, C. (2023). Thickness regression for backfill grouting of shield tunnels based on GPR data and CatBoost & BO-TPE: A full-scale model test study. Underground Space. https://doi.org/10.1016/j.undsp.2023.10.003. (SCIE)
2. Lin, W., Li, P., Xie, X., Cao, Y., & Zhang, Y. (2023). A novel back-analysis approach for the external loads on shield tunnel lining in service based on monitored deformation. Structural Control and Health Monitoring, 2023, 8128701. https://doi.org/10.1155/2023/8128701. (SCIE)
3. Lin, W., Li, P., & Xie, X. (2022). A novel detection and assessment method for operational defects of pipe jacking tunnel based on 3D longitudinal deformation curve: A case study. Sensors, 22, 7648. https://doi.org/10.3390/s22197648 (SCIE)
4. 邹成路, 林威, 罗文静, 周彪, & 谢雄耀. (2022). 城市轨道交通车站半成岩深基坑围护结构变形特性研究. 城市轨道交通研究, 25(3), 150–155. https://doi.org/10.16037/j.1007-869x.2022.03.032. (PKU)
5. 谢雄耀, 林威, 周彪, & 邹成路. (2022). 半成岩超深基坑围护结构变形与受力特性研究. 结构工程师, 38(1), 164–172. https://doi.org/10.15935/j.cnki.jggcs.2022.01.019.
6. 梁小波, 林威, 徐金峰, 刘志义, & 赵刚. (2022). 滇中红层软岩填料高路堤稳定性分析. 建筑施工, 44(9), 2248–2251. https://doi.org/10.14144/j.cnki.jzsg.2022.09.068.

Conference Papers

EI

Presentation, Poster

1. Lin, W., Xie, X., Zhou, B., Li, P., & Wang, C. (2023). Refined perception and

management of ring-wise deformation information for shield tunnels based on point cloud deep learning and BIM. Eighth International Symposium on Life-Cycle Civil Engineering (IALCCE 2023), 3991–3998. https://doi.org/10.1201/9781003323020-490. (EI, Presentation)

2. Lin, W., Xie, X., Li, P., Xiao, B., Lu, X., Feng, B., Jin, P., & Hu, Y. (2022). Prediction of settlement induced by tidal fluctuation for underwater shield tunnel during service based on historical monitoring data. 2022 8th International Conference on Hydraulic and Civil Engineering: Deep Space Intelligent Development and Utilization Forum (ICHCE), 1042–1047. https://doi.org/10.1109/ICHCE57331.2022.10042697. (EI, Poster)

Patents

发明, 实用新型

授权, 公开

1. 周应新, 谢雄耀, 周彪, 林威, 张洋宾, 陈思晗, 徐泓睿, 钱正富, 曾维成, 杨俊宏, 唐能, 刘志义, 史明梅, 唐忠林, 胡兴云, 赵刚, & 叶朋果. (2022). 一种用于差异沉降控制的路堤水载预压反馈调节系统. (发明, 公开)
2. 鲁正, 常佳奇, 林威, & 宰秋锐. (2018). 可变阻尼铅芯橡胶阻尼器. (发明, 授权)
3. 鲁正, 林威, 常佳奇, & 宰秋锐. (2018). 装配式建筑墙梁节点. (实用新型, 授权)
4. 鲁正, 宰秋锐, 常佳奇, & 林威. (2018). 钢结构装配式建筑墙板节点. (实用新型, 授权)