

Yuning Si 斯雨寧

PhD Student

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Education

- PhD of Civil Engineering
Macau University, Macau, China 2023.08 – Present
- Master of Structural Engineering
Shanghai University, Shanghai, China 2020.09 – 2023.06
- Bachelor of Civil Engineering
Guilin University of Electronic Technology, Guangxi, China 2016.09 – 2020.06

Publications

- Wang, D., Si, Y., Shu, Z.* , Wu, A., Wu, Y., & Li, Y. (2023). An Image-based Soil Type Classification Method Considering the Impact of Image Acquisition Distance Factor. *Journal of Soils and Sediments*.
- Shu, Z., Wu, A., Si, Y., Dong, H., Wang, D.* , & Li, Y. (2023). Automated Identification of Steel Weld Defects, a Convolutional Neural Network Improved Machine Learning Approach. *Frontiers of Structural and Civil Engineering*.
- An Integrated Application Platform for Semantic Segmentation Neural Networks V1.0: 2023SR0465655, 2023-04-12. (Software Copyright, In Chinese)
- An Internal and External Parameter Conversion and Export Program for Revit Camera V1.0: 2022SR1612704, 2022-12-25. (Software Copyright, In Chinese)
- An Automatic and Fast 3D Modeling System for Prefabricated Components: CN201920165378.5, 2019-08-09. (Utility Model Patent, In Chinese)
- A Dimension Detection Method and System for Prefabricated Components: CN201910205749.2, 2019-07-09. (Invention Patent, In Chinese)

- An Automatic and Fast 3D Modeling System for Prefabricated Components: CN201910092185.6, 2019-04-23. (Invention Patent, In Chinese)

Research Interests

- Bayesian inference, Machine learning, Digital twins, Building information modeling, Intelligent construction and management

Projects

- (Assistant) Research on Accurate Design and Manufacturing of Assembly Building Based on BIM and VR. Natural Science Foundation of Shanghai (18ZR1414500).
- (Member) Technical Consultation on Automated Generation of Prefabricated Bridge Components, R&D of Automatic Rebar Tying Robot. Shanghai Road and Bridge (Group) Co., Ltd.

Selected Awards & Honors

- First Price Academic Scholarship, Shanghai University, Oct. 2020 – 2022
- First Prize in the 9th “Challenge Cup” College Students' Extracurricular Academic Science and Technology Competition (Guangxi, China), and First Prize in the 5th “International Plus” College Students' Innovation and Entrepreneurship Competition (Guangxi, China), Guangxi Department of Education, Jun. – Jul. 2019
- China National Scholarship, Ministry of Education of China, Nov. 2018
- First Prize Academic Scholarship, Guilin University of Electronic Technology, Oct. 2017 – 2018

Academic Services

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