王成 Cheng Wang

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Python
C++
Pytorch
Java

🎓 教育经历 EDUCATION

武汉大学	**Wuhan University (WHU)**, Wuhan, China	2021.09 – Present

博士在读 摄影测量与遥感
PhD Candidate in Photogrammetry and Remote Sensing, expected July 2025

IELTS(academic)   **Total:7.5**
Listening:9.0, Reading:8.0, Writing:6.5, Speaking:6.0

加州大学，伯克利分校	**University of California, Berkeley (UCB)**, Berkeley, USA	2021.12 – 2022.06

交换学习 电子工程与计算机
Extension Study in Electronic Engineering and Computer Science

东南大学	**Southeast University (SEU)**, Nanjing, China	2018.09 – 2021.06

工学硕士 防灾减灾
Master of Engineering in Disaster Prevention and Mitigation Engineering

北京科技大学	**University of Science and Technology (USTB)**, Beijing, China	2014.09 – 2018.06

工学学士 基础工程
B.S. in Foundation Engineering

🔖 论文与专利 PUBLICATION

[1] **Cheng Wang**, Teng Xiao, Zhiqun Gong, Shiting Yang, Dongliang Zhang, Fei Deng, "Wireless Binocular Stereovision Measurement System Based on Improved Coarse-to- Fine Matching Algorithm", Structural Control and Health Monitoring, vol. 2023, Article ID 1132569, 19 pages, 2023. https://doi.org/10.1155/2023/1132569.

[2] **Cheng Wang**, Yang Li, Fei Deng, "SwinCrack: Road Crack Detection Based on Convolutional Swin Transformer Network", Digital Image Processing (under review).

[3] Wang Yanhua, **Wang Cheng**, Feng Yan, Dai Bowen, Wu Gang, "Application and Analyzation of the Vision-Based Structure Model Displacement Measuring Method in Cassette Structure Shaking Table Experiment", Advances in Civil Engineering, vol. 2020, Article ID 8869935, 12 pages, 2020. https://doi.org/10.1155/2020/8869935.

[4] Wang, Y.H. & Lv, J. & Feng, Y. & Dai, B.W. & **Wang, C.** & Wu, J. & Chen, Z.Y.. (2021). Implementation of online model updating with ANN method in substructure pseudo-dynamic hybrid simulation. Smart Structures and Systems. 28. 261-273. 10.12989/sss.2021.28.2.261.

[5] Wang, Y.H. & Lv, J. & Wu, J. & **Wang, C.**. (2020). Ann based on forgetting factor for online model updating in substructure pseudo-dynamic hybrid simulation. Smart Structures and Systems. 26. 63-75. 10.12989/sss.2020.26.1.063.

[6] Yanhua Wang, Jing Lv, Jing Wu, **Cheng Wang**. Prediction method of restoring force based on online Adaboost regression tree algorithm in hybrid test[J]. Journal of Southeast University(English Edition),2020,36(02):181-187.

[7] 王燕华, 吴刚, **王成**等. 基于卷积神经网络的抗震混合试验模型更新方法 [P]. 江苏省: CN110631792B,2021-01-05.
Yanhua Wang, Gang Wu, **Cheng Wang**, Model update method of seismic hybrid test based on convolutional neural network [P]. Jiangsu: CN110631792B,2021-01-05.

[8] 王燕华, **王成**, 冯岩. 一种单向振动台试验结构模型位移测量方法 [P]. 江苏省: CN111623942B,2022-03-08.

Yanghua Wang, **Cheng Wang**, Yan Feng, A Displacement Measurement Method for One-way Shaking Table Test Structure Model[P]. Jiangsu:CN111623942B,2022-03-08.

科研项目 RESEARCH PROJECT

联合课题，**基于深度学习的高速公路表面病害识别云平台**. 2022.9 – Present
Joint Project, Cloud platform for expressway surface disease identification based on deep learning.

快速扶持项目，**偏远边坡位移监测与预警系统**，80911010202. 2021.9 – 2022.6
Rapid Support Project, Remote slope displacement monitoring and early warning system.

东南大学重大科研仪器研制项目，**大型结构高精度三维动态变形测量分析系统研制**，
6505000216A 2019.11 – 2021.6
Major scientific research instrument development project of Southeast University, Development of high precision 3D dynamic deformation measurement and analysis system for large structures

国家自然科学基金项目，**基于神经网络的混合试验模型更新方法**，51708110 2018.12 – 2019.11
National Natural Science Foundation of China, Neural Network-Based Methods for Model Updating in Hybrid Test

主修课程 MAIN COURSES

人工智能概论, 机器学习概论, 设计和理解深度神经网络, 计算机视觉, 数值分析, 数据结构与算法, 高等数学等.

Introduction to Artificial Intelligence (CS188), Introduction to machine learning (CS189), Designing Visualizing and Understanding Deep Neural Networks (CS282), Computer Vision, Numerical Analysis, Data Structures and Algorithms (CS61B), Advanced Mathematics, .etc

实习经历 INTERSHIP

武汉天际航信息科技股份有限公司 算法工程师 2021.06 – 2021.10
Algorithm Engineer Wuhan Tianjihang Information Technology Co., Ltd.

项目经历
Main Projects

- 基于 SIFT 影像匹配方法，采用最小二乘匹配优化方法优化匹配精度，与双目立体视觉技术相结合，开发边坡位移远程监控及预警系统。同时，使用插值表，并行计算等方法加速计算过程；
- 基于 Transformer 的深度学习网络，采用 Swin-Transformer 作为骨干网络, 引入卷积操作从而提高模型局部建模能力，开发公路裂缝缺陷的图像识别分割模块。

其他 MISCELLANEOUS

- 获奖:
  Awards:

  – 东南大学学术奖学金
    Second Class of Southeast University Academic Scholarship
  – 中国互联网 + 创业大赛铜奖
    Bronze Award of China "Internet +" Entrepreneurship Competition
  – 振冶杯篮球赛 MVP
    MVP MVP of the "Zhenye Cup" Basketball Game

- 软件:
  Software:

  – Matlab, Abaqus, OpenSees, Ansys, Origin, Adobe Illustrator.