



INFORMATIONS

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Date of Birth : 1992.09.24
TOEFL iBT : 93



EDUCATIONS

2015.09 - 2018.06 Xidian University GPA: 3.36 / 4 (estimated)

Master of Engineering, majored in Electronics and Telecommunications Engineering

Courses: Computation Intelligence (91), Algorithm Design (91), Machine Learning (80), Natural Computation (88), Intelligent Perception and Advanced Computing (86), High Performance Computing (85). Full marks: 100

2011.09 - 2015.06 Guilin University of Electronic Technology GPA: 3.58 / 4 (estimated)

Bachelor degree in Electronic Science and Technology

Courses: Probability (95), Advanced Mathematics AI (98), Linear Algebra B (96), Complex Functions B (96), Signal and System Analysis (93), Advanced Programming Language (C) (96). Full marks: 100

WORK EXPERIENCE

2018.12 - present Research Engineer Inception Institute of Artificial Intelligence

- Research developments: 1) RandPerson, a large-scale synthesized person re-identification dataset with 8,000 IDs. I designed a method to automatically generate a large number of 3D characters and render them with customized scenes and camera networks similar to real surveillance systems. Furthermore, I show for the first time that models trained on virtual data surpass models trained on real-world datasets, including CUHK03, Market-1501, and partially MSMT17. 2) ClonedPerson, a more realistic virtual dataset with 5,621 IDs. I proposed a pipeline to directly clone the whole outfits from real-world person images to virtual 3D characters, designed two cloning methods, namely registered clothes mapping and homogeneous cloth expansion, and proposed a similarity-diversity expansion strategy to scale up IDs.
- Full-stack developments: 1) FaceCard, an APP that detects and recognizes faces. We deployed FaceCard publicly during CVPR 2019 to help participants find profiles and papers of known researchers. 2) IJCB2022 official website. Responsible for the development, maintenance, and deployment.

2018.06 - 2018.12 Front-end Engineer KingSoft Cloud Software Company & Finup FinTech Group

TECHNIQUES

Python, Pytorch, OpenCV, Node.js, JavaScript, Vue, HTML, MySQL, Unity, D3.js, MySQL

PUBLICATIONS

- **Yanan Wang**, Xuezhi Liang, and Shengcai Liao, "Cloning Outfits from Real-World Images to 3D Characters for Generalizable Person Re-Identification." In IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022
- Shengcai Liao and **Yanan Wang**, "System, Apparatus, and Method for Cloning Clothings from Real-World Images to 3D Characters", US Patent No. 17/705,518, Pending.
- **Yanan Wang**, Shengcai Liao, and Ling Shao, "Surpassing Real-World Source Training Data: Random 3D Characters for Generalizable Person Re-Identification." In ACM International Conference on Multimedia, 2020.

ACTIVITIES

- Website Chair of IJCB 2022.
- Tutorial: Person Re-Identification: Synthetic Data And Model Generalization, in IJCB 2022, Oct. 10th, 2022.

HONORS

National Scholarship. Five school-level scholarships. Five Software Copyrights. IEEE Programming Competition Top 30% in China (2 times). Winner of Internet+, Spark Cup, and other competition awards.

