Wang Junke 17300240009@fudan.edu.cn

Education

- **Fudan University** Computer Science **GPA: 3.75/4.0 Major：2/25 Department：7/161**
- **UC Irvine** (Fall quarter 2019) Computer Engineering **GPA: 4.0/4.0**

Publication

- **[Submitted to AAAI 2021]** TDRNet: A Robust Blind Face Inpainting Method.
  Junke Wang, Shaoxiang Chen, Yugang Jiang.
- **[ACM MM 2020]** Depth Guided Adaptive Meta-Fusion Network for Few-shot Video Recognition.
  Yuqian Fu, Li Zhang, **Junke Wang**, Yanwei Fu, Yugang Jiang.

Working Experience

- **[Tecent]** Intern at Shadow Lab in Tencent, guided by Dr.Yu Gang.

Research Experience

- **Blind Face Inpainting (07.2020-09.2020)**

  The target is to propose a robust blind face inpainting method to solve the problem that masks are required as input in most existing inpainting methods. We follow a two-stage inpainting strategy to first detect the abnormal regions on face image as mask based on both prior inconsistency and contextual incoherence, and then restore the content within mask areas through a refinement fusion block-based enoder-decoder architecture.

- **Few-shot Video Recognition (12.2019-05.2020)**

  Our goal is to solve the problem of multi-modality information loss and fusion failure in video classification under the few-shot setting. We respectively extract the RGB-frames information and Depth features of the videos, and fuse different modalities with a Depth-guided adaptive network. In addition, to better mimic the process of few-shot learning, we utilize the meta-training strategy to train the overall network.

- **Pedestrian Trajectory Prediction with High-order GCN (07.2019-08.2019)**

  The aim is to solve the prediction of pedestrian trajectory in crowded scene. LSTM is used to roughly predict the pedestrian trajectory, and then the historical trajectory and the predicted trajectory are input into the LSTM to extract the motion information, based on which the attention of pedestrians is calculated. Then the spatial relationship between different peers is depicted by GCN, and finally the iterative optimization is implemented.

Awards

- First-Class Scholarship
- Uniqlo Scholarship
- Excellent Undergraduate Student Scholarship

Skills

- Language: TOFEL 97 pts / CET-6 565 pts
- Coding: Python > C++ > Matlab > R > Mysql > C