

WANG Hao

Email: hao005@e.ntu.edu.sg

Homepage: <https://wanghao.tech/>

Research interests: **Cross-Modal Translation**

ACADEMIC QUALIFICATIONS

- **Nanyang Technological University (NTU)** Singapore
PhD Candidate in SCSE Aug 2019 – Present
 - Advisors: Miao Chun Yan, Guosheng Lin, Steven Hoi
- **Huazhong University of Science and Technology (HUST)** Wuhan, China
Bachelor of Automation (Outstanding Graduate) Sept 2014 – Jun 2018

PREPRINTS

- **Cross-Modal Graph with Meta Concepts for Video Captioning:**
 - **Hao Wang**, Guosheng Lin, Steven Hoi, Chunyan Miao.
- **Learning Structural Representations for Recipe Generation and Food Retrieval:**
 - **Hao Wang**, Guosheng Lin, Steven Hoi, Chunyan Miao.
 - Submit to TPAMI.
- **Decomposing Generation Networks with Structure Prediction for Recipe Generation:**
 - **Hao Wang**, Guosheng Lin, Steven Hoi, Chunyan Miao.
 - Submit to PR.
- **Cross-Modal Food Retrieval: Learning a Joint Embedding of Food Images and Recipes with Semantic Consistency and Attention Mechanism:**
 - **Hao Wang**, Doyen Sahoo, Chenghao Liu, Shu Ke, Palakorn Achananuparp, Ee-peng Lim, Steven Hoi.
 - Submit to TMM.

PUBLICATIONS

- **Structure-Aware Generation Network for Recipe Generation from Images:**
 - **Hao Wang**, Guosheng Lin, Steven Hoi, Chunyan Miao.
 - Accepted at ECCV 2020.
- **SpSequenceNet: Semantic Segmentation Network on 4D Point Clouds:**
 - Hanyu Shi, Guosheng Lin, **Hao Wang**, Tzu-Yi Hung, Zhenhua Wang.
 - Accepted at CVPR 2020.
- **FoodAI: Food Image Recognition via Deep Learning for Smart Food Logging:**
 - Doyen Sahoo, **Wang Hao**, Shu Ke, Xiongwei Wu, Hung Le, Palakorn Achananuparp, Ee-Peng Lim, Steven Hoi.
 - Accepted at KDD 2019.
- **Learning Cross-Modal Embeddings with Adversarial Networks for Cooking Recipes and Food Images:**
 - **Hao Wang**, Doyen Sahoo, Chenghao Liu, Ee-peng Lim, Steven Hoi.
 - Accepted at CVPR 2019.

EMPLOYMENT HISTORY

- **Living Analytics Research Centre (LARC)** SMU, Singapore
Research Engineer Aug 2018 - Aug 2019
 - Involved in FoodAI project, which applies food recognition into daily life with app **Healthy 365**.
Mainly took charge of model training.
 - Researched on cross-modal retrieval in food domain, introducing modality alignment to food retrieval.
 - Advisor: Steven Hoi
- **Horizon Robotics Inc.** Beijing, China
Algorithm Intern Jan 2018 - May 2018
 - Researched on video face recognition.
 - Utilized deep learning to analyze the quality of each frame, which is used to obtain video representations by weighted averaging.
 - Advisors: Ming Yang, Zhizhong Su
- **National Laboratory of Pattern Recognition, CASIA** Beijing, China
Intern Jul 2017 - Sept 2017
 - Researched on data cleansing methods based on neural networks.
 - Trained classifiers obtained from noisy label datasets with robust performance.
 - Advisors: Stan Z. Li, Jun Wan