Hai Wang

https://littlewhitesea.github.io | hai.wang.22@ucl.ac.uk

Research Interest

Video Super-Resolution and Enhancement, GAN and Diffusion Models

Education

University College London Sep. 2022 - Present
PhD student in the Department of Statistical Science *London, UK*

Tsinghua University Sep. 2019 - Jul. 2022
M.E. in Department of Electronic Engineering *Shenzhen, China*

Xidian University Sep. 2015 - Jul. 2019
B.E. in the School of Electronic Engineering *Xi'an, China*

Working Experience

DJI Research Intern Nov. 2020 – Jul. 2021
Mentor: Liliang Zhang *Shenzhen, China*

- Job description: Video Super-Resolution
- Award: The most recognized project of the first season in 2021 by the R&D department

Research Experience

University College London Sep. 2022 – Present
Research Assistant with Prof. Jing-Hao Xue *London, UK*

Tsinghua University Sep. 2019 – Jul. 2022
Research Assistant with Prof. Wenming Yang *Shenzhen, China*

Publications

Hai Wang, Xiaoyu Xiang, Yapeng Tian, Wenming Yang, Qingming Liao.
STDAN: Deformable Attention Network for Space-Time Video Super-Resolution.
Preprint.

Hai Wang, Wenming Yang, Qingmin Liao and Jie Zhou.
Bi-RSTU: Bidirectional Recurrent Upsampling Network for Space-Time Video Super-Resolution.
*IEEE Transactions on Multimedia (**TMM**), 2022.*

Hai Wang, Xiaoyu Xiang, Yapeng Tian, Wenming Yang, Qingming Liao.
Space-Time Video Super-Resolution Using Deformable Attention Network.
*CVPR Workshop on Attention and Transformers in Vision (**CVPRW**), 2022.*

Hai Wang, Feng Li, Wenming Yang, Qingmin Liao.
A New Approach to Waiting Time and Dispatch Frequency Guided Bus Timetable Optimization.
*IEEE International Conference on Industrial Technology (**ICIT**), 2022*

Ren Yang *et al.*
NTIRE 2021 Challenge on Quality Enhancement of Compressed VIdeo: Methods and Results.
*IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (**CVPRW**), 2021*

Jinjin Gu *et al.*
NTIRE 2021 Challenge on Perceptual Image Quality Assessment.
*IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (**CVPRW**), 2021*

Teaching Experience

Teaching Assistant

- *STAT0006: Linear Models and the Analysis of Variance,* University Collegeg London, Fall 2022
- *Advanced Image Processing and Its Applications,* Tsinghua University, Fall 2020

Selected Honors & Awards

- Second-class Professional Practice Award, Tsinghua University, 2022
- Second-class Scholarship, Tsinghua University, 2021

Service

Conference Reviewer

- ICPRAM: International Conference on Pattern Recognition Applications and Methods 2023
- ISBI: IEEE International Symposium on Biomedical Imaging 2023

Journal Reviewer

- TNNLS: IEEE Transactions on Neural Network and Learning Systems, 2022
- TCSVT: IEEE Transactions on Circuits and Systems for Video Technology, 2022

Skills

Languages: English, Mandarin Chinese
Programming: Proficient in Python, PyTorch, MATLAB, experienced in C/C++, Java