CHANGJIE LU

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Wenzhou-Kean University, DaXue Road 88, Wenzhou, Zhejiang, China, 325000



EDUCATION

Wenzhou-Kean University

Junior Student

Department of Mathematics Science

August 2019 - Present Overall GPA: 3.793/4.0

SKILLS

Programming skills: Python(proficiency), JAVA, Matlab, R, Maple, Linux, Markdown, Latex

Language: Chinese, English

RESEARCH EXPERIENCE

Real-time Bidding

Functional Optimization Reinforcement Learning for Real-Time Bidding

Sept 2021 - Dec 2021

Underreview

- · Designed functional optimization agents (FOAs) using Lagrange multiplier
- · Combine the deep reinforcement learning and functional optimization to learn the agent's causality.
- · Demonstrate the effectiveness of the functional optimization using the multi-agent bidding scenario.

Image Deraining

July 2021-Nov 2021

Segmentation-Aware Progressive Network for Perceptual Contrastive Image Deraining 2022 WACV Workshop

- · Our group proposes a semi-supervised segmentation-aware progressive network for single image deraining.
- · Present a novel progressive dilated unit (PDU) embedded with a new channel residual attention (CRA). This design allows efficient usage of multi-scale rain streak information.
- · Design a new perceptual contrastive loss (PCL). By integrating perceptual and contrastive losses, the derained image is close to the GT in terms of pixel-wise difference and fine details.
- · Comprehensive experiments demonstrate that our model surpasses previous state-of-the-arts qualitatively and quantitatively.

Image deblurring

Deblur-YOLO: Fast Real-Time Object Detectionwith Blind Motion Deblurring

Dec 2020-Feb 2021 2021 IJCNN(Oral)

- · Our group presents an efficient object detection model that is robust to motion blur.
- · Introduce Dilated Feature Pyramid Network (DFPN), which utilizes dilated convolution blocks to obtain a larger receptive field with less memory consumption.
- · Design Smooth Peak Signal-to-Noise Ratio (SPSNR), which utilizes smooth 11 loss and effectively measures restored images' smoothness.
- · Qualitatively and quantitatively demonstrate that our model achieves competitive performance against several state-of-the-art image deblurring models on COCO 2014, Set5, and Set14.

INTERNSHIP

Findability Science

Real Time Optimal Bid Shading for First Price Auction

Sept 2021- Dec 2021 Algorithm Consultant

· Explain more than five advanced algorithm for their team.

- · Propose a Deep Q Network(DQN) for first price auction.
- · Use Deep learning model DeepFM for CTR pridiction.

Newford Research Institute of Advanced Technology

Data analysis of Zhejiang Province Industry

Oct 2020 - Dec 2020 $Data\ Analyst$

- · Data visualization of Industry in Zhejiang Province.
- · Develop a web crawlers script for collecting the data.

AWARD

3rd Price of National Mathematical Contest in Modeling Reviewer of 36th AAAI 2020-2021 Dean List Scholarship 2020-2021 Research Scholarship Invited Speaker in Fudan University

ACADEMIC INTEREST

Machine Learning, Computer Vision, Reinforcement learning