LIU Yunfei

Final Year (Ph.D Candidate)
Computer Science & Engineering
at Beihang University @ VR Lab

Links

Github:// DreamTaleCore
Google Scholar:// Liu-Yunfei

Skills

OS

GNU/Linux, Windows, ROS

LANGUAGES

C/C++, Java, Python, C#, MATLAB

FRAMEWORK

Qt, Android, Dash Tensorflow, PyTorch, Keras, OpenCV, OpenGL, Torch

OTHERS

Markdown, Git, Shell, VS Code, Visual Studio, Android Studio, Latex, CET-6, Photoshop, PPT, Auto CAD, Inventor

Coursework

Data Structures
Algorithm
Pattern Recognition
Discrete Mathematics
Operating Systems
Data Analysis

Education

Technology

2013-2017
B.SC. DEGREE
Beijing Institute of Technology
School of Computer Science and

2017-Now
PH.D DEGREE
Beihang University
School of Computer Science and
Engineering
State Key Lab of Virtual Realty
Technology and Systems

XueYuan Road No.37, 100083 HaiDian District, BeiJing, China Mob.: +86-13164238468 Email.:liuyunfei.cs@gmail.com Web.:https://liuyunfei.net

Experience / Projects

2016.07-2016.09 **Da-Jiang Innovations (DJI), SZ**

Summer Camp

Collaborative work of unmanned vehicle and drone: My project is to design algorithms for computer vision, task logic, multi-agent communication. The unmanned vehicle and drone work collaboratively and automatically for dragging, transporting, and placing objects.

Python, C/C++, ROS, Numpy, OpenCV, Shell, Arduino, Embedded System

2017.2-2017.5 **Da-Jiang Innovations (DJI)** Visual Perception Group Intern Video ripple-artifact removal: Videos captured by the drone are usually affected by the jitters and vibrations. My task is to remove such artifacts by using IMU data in real-time.

Ground station design: Design a Windows APP for visualizing and interaction various modals of data.

C++, OpenCV, Qt

Publications / Challenges

CVPR-2020 Unsupervised Learning for Intrinsic Image Decomposition from a Single Image Yunfei Liu, Yu Li, Shaodi You, and Feng Lu

AAAI-2020 Separate in Latent Space: Unsupervised Single Image Layer
Separation (Oral) Yunfei Liu and Feng Lu

ECCV-2020 Reflection Backdoor: A Natural Backdoor Attack on Deep Neural Networks Yunfei Liu, Xingjun Ma, James Bailey, and Feng Lu

MM-2020 What I See Is What You See: Joint Attention Learning for First and Third Person Video Co-analysis

TPAMI-2020 First- And Third-person Video Co-analysis By Learning Spatial-temporal Joint Attention

ICCVW-2019 Physics Based Vision meets Deep Learning First-prize winner CADC-2015 China intetnational Aircraft Design challenge First-prize (6/67)

Awards

First Prize in National Competition National Scholarship Other first prizes \times 5

First Prize in International Competition Chancellor's Scholarship Other second prizes \times 7