Rundong Luo

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Education

Peking University Beijing, China
Bachelor of Science in Computer Science and Technology (Turing Class) Degree anticipated in Jun 2024

- **GPA: 3.852**/4.0, **Ranking: 5**/282, top **2%** among CS/AI major students.
- **Core Courses:** Advanced Algebra I/II (99/93.5), Discrete Mathematics and Structures (99), Computer Vision (93.9), Computational Photography (100), Multimodal Learning (95), Operating System (96).
- **Selected Honors and Awards:**
  Chinese National Scholarship (top 0.2%), Peking University, 2023
  Merit Student Pacemaker (top 5%), Peking University, 2023
  China Optic Valley Scholarship (top 10%), Peking University, 2022
  Merit Student (top 10%), Peking University, 2022
  Peking University Scholarship (top 20%), Peking University, 2021
  Award for Community or Public Service, Peking University, 2021

Research Experience

Self-Supervised Learning and Adversarial Machine Learning Jul. 2021 - Sept. 2022
Advisor: Prof. Yisen Wang Peking University

- Conducted empirical and theoretical analysis on the effect of data augmentation in adversarial self-supervised learning and proposed novel a dynamic data augmentation schedule towards self-supervised adversarial training.
- One first-author paper on self-supervised adversarial learning accepted at ICLR 2023.

Low-Level Vision for High-Level Applications Apr. 2022 - Present
Advisor: Prof. Jiaying Liu Peking University

- Investigated high-level vision in low-light scenarios.
- One first-author paper on day-night domain adaptation accepted at ICCV 2023 and further chosen for an oral presentation (152/8088).
- Submitted one journal paper on day-night domain adaptation as the co-first author.

3D Scene Understanding Jan. 2023 - Present
Advisor: Prof. Jiajun Wu Stanford University
Sponsored by the UGVR program (20 undergraduates per year national-wide) and serve as the team leader.

- Proposed a novel approach for unsupervised 3D object discovery.
- Submitted one paper on 3D object discovery as the first author.

Publications

* indicates equal contributions

- Rundong Luo, Hong-Xing Yu, and Jiajun Wu. Unsupervised Discovery of Object-Centric Neural Fields. arXiv, 2023.
- Wenjing Wang*, **Rundong Luo***, Wenhan Yang, and Jiaying Liu. Unsupervised Illumination Adaptation for Low-Light Vision. Under review, 2023.
- **Rundong Luo**, Wenjing Wang, Wenhan Yang, and Jiaying Liu. Similarity Min-Max: Zero-shot Day-Night Domain Adaptation. In ICCV, 2023. Project Page, Code.
- **Rundong Luo***, Yifei Wang*, and Yisen Wang. Rethinking the Effect of Data Augmentation in Adversarial Contrastive Learning. In ICLR, 2023. Paper, Code.

Patents

- Jiaying Liu, **Rundong Luo**, and Wenjing Wang. *An unsupervised low-light domain adaptive training method and detection method.* Patent pending, application No. CN202211129606.6

Academic Service

- Journal Reviewer: IEEE TCSVT.
- Teaching Assistant: Practice of Programming in C&C++ (PKU, Spring 2023).

Technical Skills

- Programming languages: Python, C&C++
- Deep learning framework: PyTorch
- Language: Chinese (native), English (proficient, TOEFL 113)