

RYOTA MAEDA

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github.com/elerac

Research Interests

- Computer Vision
- Polarimetric Imaging
- Computer Graphics
- Light Transport Acquisition
- Computational Imaging
- 3D Reconstruction

Education

University of Hyogo

Ph.D. of Engineering

Apr. 2022 –

University of Hyogo

Master of Engineering

Apr. 2020 – Mar. 2022

University of Hyogo

Bachelor of Engineering

Apr. 2016 – Mar. 2020

Publications

Polarimetric Light Transport Analysis for Specular Inter-reflection

Dec. 2023

Ryota Maeda, Shinsaku Hiura

arXiv (under review)

Refinement of Hair Geometry by Strand Integration

Oct. 2023

Ryota Maeda, Kenshi Takayama, Takafumi Taketomi

Computer Graphics Forum (Proc. of Pacific Graphics 2023)

EpiScope: Optical Separation of Reflected Components by Rotation of Polygonal Mirror

Dec. 2021

Ryota Maeda, Shinsaku Hiura

SIGGRAPH Asia 2021 Technical Communications

Research Experience

Optical Media Interface Lab, NAIST

Aug. 2018

Research Intern

Mentors: Hiroyuki Kubo and Yasuhiro Mukaigawa

CyberAgent AI Lab

Aug. 2022 – Sep. 2022

Research Intern

Mentors: Kenshi Takayama and Takafumi Taketomi

Software on GitHub

Polanalyser | ☆110 stars

Polarization image analysis tool. Demosaicing, Stokes vector, Mueller matrix.

structuredlight | ☆117 stars

Generate and Decode structured light. Binary, Gray, XOR, Ramp, Phase-Shifting, Stripe.

EasyPySpin | ☆86 stars

cv2.VideoCapture like wrapper for FLIR Spinnaker SDK.

Skills

Programming: Python, C/C++, NumPy, OpenCV, PyTorch

Embedded System: Arduino, Mbed

Design and CAD: Photoshop, Lightroom, Illustrator, Fusion 360

Language: Japanese, English

Last updated: February 11, 2024