RYOTA MAEDA

Himeji, Hyogo, Japan

✉ maeda.ryota.elerac@gmail.com   in linkedin.com/in/ryota-maeda-elerac   ○ github.com/elerac

Research Interests

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

Education

University of Hyogo	Apr. 2022 –
Ph.D. of Engineering	

University of Hyogo	Apr. 2020 – Mar. 2022
Master of Engineering	

University of Hyogo	Apr. 2016 – Mar. 2020
Bachelor of Engineering	

Publications

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 | ☆ 105 stars
Polarization image analysis tool. Demosaicing, Stokes vector, Mueller matrix.

structuredlight | ☆ 110 stars
Generate and Decode structured light. Binary, Gray, XOR, Ramp, Phase-Shifting, Stripe.

EasyPySpin | ☆ 84 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, Iillustrator, Fusion 360
Language: Japanese, English

Last updated: December 24, 2023