Hyeok Joon Kweon

M.S. in CVIP Lab (2021.02 - 2023.02)
Electronics Engineering, Chungnam National University
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RESEARCH INTERESTS

Computer Vision, Image Processing, Surveillance System, Person Re-Identification.

EDUCATION

Chungnam National University, Daejeon, South Korea

M.S. Electronics Engineering Mar 2021 - Feb 2023 (Scheduled)

- M.S. research in communication & signal processing under the supervision of Prof. Donghyeon Cho.
- Thesis: A Study on Person Re-Identification and Image Steganography for Public Security and Safety.
- GPA: 4.31/4.50

B.S. Electronics Engineering Mar 2015 - Feb 2021

- B.S. research in electronics engineering.
- GPA: 3.71/4.50

SKILLS

English, Python, C, Pytorch, Tensorflow, LaTeX

INTERNATIONAL JOURNAL

2. Cloth-Changing Person Re-Identification with Noisy Patch Filtering (Under Review on 2022).
   - Learning Experience : Image Recognition, Image Classification
   - Achievement : Person Re-Identification Model Adaptable to Long-term Video, SOTA Performance.
1. Deep Multi-Image Steganography with Private Keys, Hyeok-Joon Kweon*, Jin-sun Park*, Sanghyun Woo and Donghyeon Cho, Electronics, 2021.
   - Learning Experience : Image Generation, Pytorch, Python
   - Achievement : Dual-Security Steganography Model with High Capacity.

DOMESTIC JOURNAL

1. Panorama Image Stitching Using Synthetic Fisheye Image, Hyeokjoon Kweon, Donghyeon Cho, Journal of the Korea Broadcasting Engineering Association, 2022.
   - Learning Experience : 2D Image Pre-Processing, Image Manipulation
   - Achievement : Stitching Model with Possibility of Domain Adaptation to Real-World.

PROJECTS

- 360 Real-Scene Panorama Generation using Deep Neural Networks, Electronics and Telecommunications Research Institute (ETRI). Aug 2021 - Feb 2022

PERSONAL PROJECTS

- Development of Person Re-Identification Model Adaptable to Long-term Video, Chungnam National University Institute of Technology for Convergence and Innovation. Feb 2021 - Nov 2022
- Hiding Security Data in Image Through Deep Learning, National Research Foundation of Korea (NRF). Mar 2021 - Aug 2021

AWARD

Outstanding research award Feb 2022

- Institution: Chungnam National University

TEACHING EXPERIENCE

Teaching Assistant Sep 2022 (In Progress)

- Computer Programming 2 (1213-1004)
- Instructor : Donghyun Cho
- Department of Electronics Engineering, Chungnam National University

Teaching Assistant Sep 2021 - Dec 2021

- Computer Programming 2 (38645-00)
- Instructor : Donghyun Cho
- Department of Electronics Engineering, Chungnam National University

REFERENCES

Donghyun Cho

- Chungnam National University, Assistant Professor
- E-Mail: cdh12242@cnu.ac.kr
- Homepage: https://sites.google.com/view/cnu-cvip

Jinsun Park

- Pusan National University, Assistant Professor
- E-Mail: jspark@pusan.ac.kr
- Homepage: https://zzangjinsun.github.io/