Nguyen Ngoc Hoang

Male

June 26th, 1994

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Buk-gu, Gwangju, 61186, Korea

RESEARCH INTERESTS

- Image processing, computer vision and pattern recognition.
- Machine learning and deep learning.
- Hand gesture recognition.

EDUCATION

BACHELOR DEGREE

2012- 2017: B.S. degree in Automatic Control from Ha Noi University of Science and Technology, Viet Nam.

MASTER DEGREE

2017- Now (2019): M.S. degree in Electronics and Computer Engineering department of Chonnam National University, Korea.

LANGUAGES

English: Proficient
Vietnamese: Mother tongue.

WORKING EXPERIENCES

- 2013-2017: Work as a member of the MANDEVICES Laboratory under guidance of Professor Hoang Si Hong[2].
- 2017–Now(2019): Searching in the Computer Vision Laboratory of advisor - Professor Guee-Sang, Lee[1].

RESEARCH PROJECT

- Hand Gesture Recognition using Deep Learning (main research).
- Tampered Face Image Detection.
- Object detection and hand detection using Deep Learning Network.
- Facial expression recognition with face landmark detection.
- 2D/3D human and hand pose estimation.
- Target person detection in multi-people with Kinect.
- Game development in python with PyGame.

HONORS & AWARDS

- Best paper award in SMA 2018 in The International Conference on Smart Media & Applications.
- Best paper award in SMA 2018 in 2018 Spring Conference of KISM & SEBS.
- Best paper award in SMA 2018 in 2018 Fall Conference of KISM & SEBS.
- Achieve the national prize for good students in physics

SKILLS

- Programming Language: Python, Matlab…
- Practice with deep learning framework and computer vision library: Keras, Tensorflow, Pytorch, Opencv…
- Other skills: independent research and team-work, project management, presentation…

REFERENCES

1. Professor **Guee-Sang, Lee**

🏛 Dept. of ECE, Chonnam National University.

📍 77, Yongbong-ro, Buk-gu, Gwangju, Korea.

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2. Associate Professor, Dr. **Hoang Si Hong**

🏛 School of Electrical Engineering, Ha Noi University of Science and Technology.

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PUBLICATIONS

- Hoang Nguyen, Guee-Sang Lee, Soo-Hyung Kim, Hyung-Jeong Yang, "CONTINUOUS HAND GESTURE SPOTTING AND CLASSIFICATION USING 3D FINGER JOINTS INFORMATION" in 2019 the 26th IEEE International Conference on Image Processing (ICIP 2019). (Accepted).

- Nguyen Ngoc Hoang, Guee-Sang Lee, Soo-Hyung Kim. Hyung-Jeong Yang. "*A Real-time Multimodal Hand Gesture Recognition via 3D Convolutional Neural Network and Key Frame Extraction,*" in MLMI2018 Proceedings of the 2018 International Conference on Machine Learning and Machine Intelligence, Pages 32-37.

- Nguyen Ngoc Hoang, Guee-Sang Lee, Soo-Hyung Kim, Hyung-Jeong Yang, In-Seop Na. *" Multi - Transfer Models for Tampered Face GAN Image Detection,*" SMA 2018 in The International Conference on Smart Media & Applications, pages 141-143.

- Nguyen Ngoc Hoang, Guee-Sang Lee, Soo-Hyung Kim, Hyung-Jeong Yang. "*3D Skeletal Joints-Based Hand Gesture Spotting and Classification*," in International Journal of Control, Automation and Systems (Submitted).

- Nguyen Ngoc Hoang, Guee-Sang Lee, Soo-Hyung Kim, Hyung-Jeong Yang "*Continuous Dynamic Hand Gestures Recognition Using Deep Convolution Neural Network*," in 2018 Fall Conference of KISM & SEBS.

- Nguyen Ngoc Hoang, Guee-Sang Lee, Soo-Hyung Kim, Hyung-Jeong Yang "*Hand Gesture Recognition Using 3DCNN with Keyframe Extraction,*" in 2018 Spring Conference of KISM & SEBS.