NGUYEN HONG HAI

Artificial Intelligence

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CONTACT

• Name: Nguyen Hong Hai

• Date of birth: 14 January 1996

• Mobile: +82 10 4758 1996 (Kakao)

• Nationality: Vietnamese

EDUCATION

M.E. in Artificial Intelligence Chonnam National University, South Korea.

• GPA: 4.29/4.5.

- Thesis title: Multi-space Fusion for Mental Workload Estimation based on Physiological Signal.
- Supervisor: Prof. Soo-Hyung Kim.

B.S. in Mathematics and Computer Science

Vietnam National University, HoChiMinh City - University of Science (HCMUS).

- GPA: 8.09/10.
- Thesis title: Face recognition based on partial face.
- Supervisor: Prof. Pham The Bao.

RESEARCH INTERESTS

My research interests are computer vision, time series analysis, sentiment analysis, and cognitive load. Currently, I am working on mental workload estimation to apply it in brain-computer interfaces.

AWARD

- Best Paper Award in International Conference on Smart Media & Applications 2022.
- Third place in Affective Behavior Analysis inthe-wild (ABAW) Challenge - CVPR Workshop 2022. Team: PRL.
- Best Paper Award in International Conference on Smart Media & Applications 2021.

SKILLS

Programming Language: Python, R, C/C++, MATLAB, LATEX.

Technical: PyQt, TensorFlow, PyTorch, OpenCV.

EXPERIENCE

Master's Student Chonnam National University

a 03/2021 - Present

Gwangju, South Korea

- Mental Workload Estimation
 Experiment with STEW dataset. We conducted experiments on classification and regression for Mental workload.
- Stress Estimation
 Experiment with Ulm-TSST dataset, We conducted experiments on
 Valence-Arousal estimation in Multimodal Emotional Stress Sub-challenge
 in Multimodal Sentiment Analysis Challenge (MuSe).
- Valence-Arousal Estimation
 Experiment on the Aff-Wild2 dataset. We achieved 3rd place in Task 1
 Valence-Arousal Estimation in Workshop and Competition on Affective Behavior Analysis in-the-wild. Project page.

Pipeline Engineering

Sparx* - A Virtuos Studio

10/2018 - 01/2021

- Ho Chi Minh, VietNam
- Research and development of tools based on potential software.
- R&D automation scripts and tools inside and outside a 3D application to help the artist can be quickly worked on.
- Installation and troubleshooting of software, plugins, and scripts.
- Supporting producers and team leaders in training for newbies.

Intership

Global Cybersoft Vietnam

i 07/2017 - 09/2017

● Ho Chi Minh, VietNam

 Motorcycle detection: Research histograms of oriented gradients (HOG), local binary patterns (LBP) features and support vector machines (SVM) for detection.

PUBLICATIONS

Conference Proceedings

- E.-B. Choi, **Nguyen**, **Hong-Hai**, T. N. Nguyen, and S.-H. Kim, "Stress analysis based on feature-level late fusion," in *Proc. Int. Conf. Smart Media and Applications (SMA2022)*, Oct. 2022., 2022, pp. 110–114.
- **Nguyen**, **Hong-Hai**, V.-T. Huynh, and S.-H. Kim, "An ensemble approach for facial behavior analysis in-the-wild video," in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshop*, 2022, pp. 2512–2517.
- Nguyen, Hong-Hai, V.-T. Huynh, H.-J. Yang, G.-S. Lee, and S.-H. Kim, "Mafcl: Multimodal attention fusion with combined loss for sentiment recognition in stress-induced circumstances," in Proc. Int. Conf. Smart Media and Applications (SMA2021), Sep. 2021., 2021, pp. 16–19.