

Quang-Tien Dam

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RESEARCH INTERESTS

Computer Vision, Generative Models, Facial Reaction Generation, 3D Human Modeling, Deep Learning.

EDUCATION

- **Ritsumeikan University** Osaka, Japan
• *Master of Advance Information Science and Engineering; GPA: 4.45/5* *September 2023 - September 2025*
Thesis topic: Learning to Express Pain
- **The University of Danang - University of Science and Technology** Danang, Vietnam
• *Bachelor of Engineering in Information Technology; GPA: 3.79/4* *September 2018 - April 2023*

EXPERIENCE

- **Advanced Intelligent System Lab, Ritsumeikan University** Osaka, Japan
• *Research Assistant* *September 2023 - Present*
Pioneered novel pain generation methodology and evaluation metrics; engineered real-time pain expression synthesis system for nursing training robots using temporal-expandable conditional Diffusion Models and Gaussian Splatting Avatars. Outperformed autoregressive models across all evaluation metrics while maintaining 44 FPS performance on consumer GPUs.
- **FTECH CO., LTD** Danang, Vietnam
• *AI Engineer* *July 2022 - July 2023*
Developed K-12 test digitization system using LayoutXLM multi-modal transformer, achieving 78% accuracy and 4.6x annotation cost reduction via Active Learning.
- **Neurond Technology JSC.** Danang, Vietnam
• *Data Engineer Intern* *January 2022 - April 2022*
Designed and implemented data warehouse using Microsoft SSIS and Power BI, delivering 3 business intelligence reports for performance analytics.

RESEARCH

(GOOGLE SCHOLAR)

- **PainDiffusion: Can Robot Express Pain?** *Under reviewing*
• *Quang Tien Dam; Tri Tung Nguyen Nguyen; Dinh Tuan Tran; Joo-Ho Lee* *2024*
Keywords: Diffusion Forcing; Facial Reaction Generation.
- **Finite Scalar Quantization as Facial Tokenizer for Dyadic Reaction Generation** *IEEE FG*
• *Quang Tien Dam; Tri Tung Nguyen Nguyen; Dinh Tuan Tran; Joo-Ho Lee* *2024*
Keywords: Autoregressive Models, VQ-VAE.
- **Visualizing Portable Executable Headers for Ransomware Detection** *JUCS*
• *Tien Quang Dam; Nghia Thinh Nguyen; Trung Viet Le; Tran Duc Le; Sylvestre Uwizeyemungu; Thang Le-Dinh* *2024*
Keywords: Representation Learning, Ransomware Classification, Vision Transformer.
- **Danaflood: A Solution for Scalable Urban Street Flood Sensing** *ICISN*
• *Tien Quang Dam; Duy Khanh Ninh; Anh Ngoc Le; Van Dai Pham; and Tran Duc Le* *2023*
Keywords: Flood Detection, Image Classification, CNN.

SKILLS

Technical: Python, Pytorch, Pytorch Lightning, WandB, Linux, HTML+CSS, Hugging Face, etc.

Languages: English (advanced - TOEIC 990), Japanese (beginner), Vietnamese (native)

SERVICES

Conference Reviewers: ICRA 2025, SII 2025

HONORS AND AWARDS

- Winner at Multiple Appropriate Facial Reaction Generation Challenge at IEEE FG 2024 2024
- Japanese Government Scholarship (MEXT) 2023
- Best Paper in School Student Scientific Research Conference. 2022, 2023
- Second Prize Winning Team in Science-A-Thon competition 2022
- Vallet Merit Scholarship 2022
- Honda Award for Young Student and Scientist 2022
- Murata Scholarship 2021, 2022
- First Prize Winning Team in Innovative Technology Entrepreneurship the University of Danang 2021
- First Prize Winning Team in Maker to Entrepreneur Program 2020
- Dean's List 2018-2019, 2019-2020, 2020-2021

ORGANIZATIONS

- President of Danang Astronomy Club 2019-2022
- Member of the 9th Vietnam Summer School of Science 2022

REFERENCE

- **Dr. Joo-Ho Lee**
Professor
Ritsumeikan University
leejooho@is.ritsumei.ac.jp
- **Dr. Khanh-Duy Ninh**
Head of Department of Embedded Systems, IT Faculty
DUT, Vietnam
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- **Dr. Duc Le-Tran**
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