Ton That Huu Tri

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RESEARCH INTERESTS

My research interests include generative models and their applications, such as video-to-audio generation and portrait animation. I am also interested in developing algorithms and techniques for understanding the geometry and semantics of 3D scenes, with applications in autonomous driving, robotics, and augmented reality.

EDUCATION

- **Ph.D. in Electrical Engineering** — Sep 2022 – Present
  Korea Advanced Institute of Science & Technology (KAIST) — *Daejeon, Korea*
  - Advisor: Prof. Chang D. Yoo
  - GPA: 3.96/4.30

- **B.E in Electrical Engineering** — Aug 2017 – Aug 2021
  Ho Chi Minh City University of Technology (HCMUT) — *Ho Chi Minh City, Vietnam*
  - GPA: 8.43/10

PUBLICATIONS

- **Tri Ton**, Jiwoo Hong, Chang D. Yoo. "TARO: Timestep-Adaptive Representation Alignment with Onset-Aware Conditioning for Synchronized Video-to-Audio Synthesis". *Under Review*, 2025.

- **Tri Ton**, Trung X. Pham, Chang D. Yoo. "Advancing Temporal Coherence in Portrait Animation via Progressive Latent Temporal Diffusion Transformers". *Under Review*, 2025.

- Jiwoo Hong, **Tri Ton**, Trung X. Pham, Gwanhyeong Koo, Sunjae Yoon, Chang D. Yoo. "ITA-MDT: Image-Timestep-Adaptive Masked Diffusion Transformer Framework for Image-Based Virtual Try-On". *CVPR*, 2025.

- Trung X. Pham*, **Tri Ton***, Chang D. Yoo. "MDSGen: Fast and Efficient Masked Diffusion Temporal-Aware Transformers for Open-Domain Sound Generation". *ICLR*, 2025.

- **Tri Ton***, Ji Woo Hong*, SooHwan Eom, Jun Yeop Shim, Junyeong Kim, Chang D. Yoo. "Zero-shot Dual-Path Integration Framework for Open-Vocabulary 3D Instance Segmentation". *CVPR Workshops*, 2024.

- Thanh Nguyen, Tung Luu, **Tri Ton**, SungWoong Kim and Chang D. Yoo. "Uncertainty-Aware Rank-One MIMO Q Network Framework for Accelerated Offline Reinforcement Learning". *IEEE Access*, 2024.

- Thanh Nguyen*, Tung M. Luu*, **Tri Ton**, and Chang D. Yoo. "Towards Robust Policy: Enhancing Offline Reinforcement Learning with Adversarial Attacks and Defenses". *ICPRAI*, 2024.

EXPERIENCES

- **Technology Specialist Intern** — Sep 2021 – June 2022
  VinBigData — *Ho Chi Minh City, Vietnam*
  - Improved the quality of the language model in the automatic speech recognition system.
  - Generated and processed text data from audio youtube videos using Kaldi.

ACADEMIC SERVICES

- Reviewer of CVPR (2025), ICCV (2025), ECCV (2024), ICASSP (2024, 2025).

HONORS AND AWARDS

- KAIST Scholarship (Full tuition and fees).

- Scholarships for academic achievement in 2019 - 2020.

- Second prize in City Excellent Student in Mathematics 2017.

SKILLS

- Programming languages: Python (proficient), C++ (familiar).

- Tools: git, docker.

- Languages: Vietnamese (native), English (fluent).