TUAN-ANH VU

PERSONAL DATA

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EDUCATION

2019 - now Ph.D. candidate in Computer Science and Engineering, Hong Kong University of Science and Technology

Supervisor: Assoc. Prof. Sai-Kit Yeung

Dissertation title: Scene Understanding in Challenging Scenarios

2011 - 2016 B.Sc. in Computer Science, International University - Vietnam National University HCM City

Supervisor: Synh Viet-Uyen Ha, Ph.D.

Thesis title: Extend Traffic Signs Detection and Recognition Algorithm in Nighttime in Viet Nam

SELECTED PUBLICATIONS

- * denotes equal contribution, # denotes guidance role for juniors
- Tuan-Anh Vu*, Srinjay Soumitra Sarkar*, Zhiyuan Zhang, Binh-Son Hua, and Sai-Kit Yeung, "Test-Time Augmentation for 3D Point Cloud Classification and Segmentation", Proceeding of International Conference on 3D Vision (3DV), 2024. (Link)
- Tan-Sang Ha*, Hai Nguyen-Truong*, Tuan-Anh Vu#, and Sai-Kit Yeung, "MarineVRS: Marine Video Retrieval System with Explainability via Semantic Understanding", OCEANS 2023, Limerick. (Link)
- Quang-Trung Truong, **Tuan-Anh Vu**, Tan-Sang Ha, Jakub Lokoc, Ajay Joneja, and Sai-Kit Yeung, **"Marine Video Kit: A New Marine Video Dataset for Content-based Analysis and Retrieval"**, 29th International Conference on Multimedia Modeling (MMM), 2023. **Oral** (Link)
- Tuan-Anh Vu, Duc-Thanh Nguyen, Binh-Son Hua, Quang-Hieu Pham and Sai-Kit Yeung, "RFNet-4D: Joint Object Reconstruction and Flow Estimation from 4D Point Clouds", Proceeding of European Conference on Computer Vision (ECCV), 2022. Oral acceptance rate of 2.7% of 5,803 submissions (Link)
- 2022 Yingshu Chen, Tuan-Anh Vu, Binh-Son Hua and Sai-Kit Yeung, "Time-of-Day Neural Style Transfer for Architectural Photographs", IEEE International Conference on Computational Photography (ICCP), 2022. Oral (Link)

PREPRINTS

- Tuan-Anh Vu, Duc Thanh Nguyen, Binh-Son Hua, Quang-Hieu Pham, and Sai-Kit Yeung, "RFNet-4D++: Joint Object Reconstruction and Flow Estimation from 4D Point Clouds with Cross-Attention Spatio-Temporal Features", TPAMI, under review. (Link)
- Tuan-Anh Vu, Hai Nguyen-Truong, Ziqiang Zheng, Binh-Son Hua, Qing Guo, Ivor W. Tsang, and Sai-Kit Yeung, "TransCues: Boundary and Reflection-empowered Pyramid Vision Transformer for Semantic Transparent Object Segmentation", ICLR 2024, under review. (Link)
- Hai Nguyen-Truong*, E-Ro Nguyen*, **Tuan-Anh Vu**#, Binh-Son Hua, Minh-Triet Tran, and Sai-Kit Yeung, "**Improving Referring Expression Segmentation using Vision-Guided Text Features**", AAAI 2024, under review. (Link)
- Tuan-Anh Vu, Qing Guo, Binh-Son Hua, Ivor W. Tsang, and Sai-Kit Yeung, "OVISCamo: Open-Vocabulary Instance Segmentation for Camouflaged Objects", CVPR 2024, in submission.
- Tan-Sang Ha, Tuan-Anh Vu#, and Sai-Kit Yeung, "Enhancing Cross-Modality Feature Matching and Ranking for Video Moment Retrieval", ECIR 2024, in submission.
- 2023 Yingshu Chen, Tuan-Anh Vu, Ka-Chun Shum, Huajian Huang, and Sai-Kit Yeung, "3D ToD Stylization: Time-of-day Style Transfer for 3D Architectural Scenes", SIGGRAPH 2024, in submission. (Link)
- Ziqiang Zheng, Jipeng Zhang, Tuan-Anh Vu, Shizhe Diao, and Sai-Kit Yeung, "MarineGPT: Unlocking Secrets of "Ocean" to the Public", Nature Machine Intelligence, in submission. (Link)

EXPERIENCES

2023 - NOW	Research Internship, Centre for Frontier AI Research, A*STAR
2021 - NOW	Reviewer, CVPR 2022 - 2024, ICCV 2023, ECCV 2022, WACV 2022 - 2024, ACCV 2022
2020 - NOW	Teaching Assistant, CSE - HKUST (COMP2011, COMP4431, ISDN2300, ISDN2400, ISDN5300, CSIT6000L)
2017 - 2019	Teaching Assistant, CSE - HCMIU-VNU (IT130IU, IT131IU, IT097IU , IT092IU)
2015 - 2019	Research Assistant, CSE - HCMIU-VNU

HONORS & AWARDS

2023 - 2024	ARAP Research Award, Centre for Frontier AI Research, A*STAR
JAN 2023	2nd Place, USV-based Obstacle Segmentation Challenge at WACV Workshop on Maritime Computer Vision
Nov 2022	UGC Research Travel Grant, Hong Kong University of Science and Technology (for attending ECCV 2022)
June 2022	Travel Grant, EPFL CIS Edge AI Summer School 2022
AUG 2020	Best Poster Award, Machine Learning Summer School Indonesia (MLSS-Indo) 2020
2019 - 2024	Postgraduate Scholarship, Hong Kong University of Science and Technology
JUL 2019	Scholarship for SENG Summer Camp for Elite Students, Hong Kong University of Science and Technology
2017	Scholarship for Master by Research program in Information Technology, HCMIU-VNU
2014 - 2015	Scholarship for Excellent Academic Performance, HCMIU-VNU

SKILLS

Languages Vietnamese (native), English (fluent), Cantonese (beginner)

Programming Python, C/C++, Java, HTML/CSS, ...

 $\label{eq:continuous_problem} \textit{Frameworks} \quad \textit{Pytorch, TensorFlow, OpenCV, Qt, OpenGL, WebGL, } \ldots$

REFERENCES

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Asst. Prof. Binh-Son Hua

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School of Information Technology Deakin University, Australia Email: duc.nguyen@deakin.edu.au

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