

## RESEARCH INTERESTS

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Video understanding, deep learning

## EDUCATION

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- **Hong Kong University of Science and Technology** Hong Kong  
*Ph.D. in Computer Science* *Sept 2021 - Present*
- **University of Science** Ho Chi Minh city, Vietnam  
*Bachelor degree in Computer Science, Honors Program.* *Sept 2010 - Aug 2014*  
Thesis: Building the Facial Expressions Recognition System Based on RGB-D Images in High Performance.

## SELECTED PUBLICATIONS

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- **Marine Video Kit: A New Marine Video Dataset for Content-based Analysis and Retrieval:** Quang-Trung Truong, Tuan-Anh Vu, Tan-Sang Ha, Jakub Lokoc, Yue Him Wong Tim, Ajay Joneja, and Sai-Kit Yeung. International Conference On Multimedia Modeling. Bergen, Norway. 2023. **ORAL**. Paper.
- **SideInfNet: A Deep Neural Network for Semi-Automatic Semantic Segmentation with Side Information:** Jing Yu Koh, Duc-Thanh Nguyen, Quang-Trung Truong, Sai-Kit Yeung, Alexander Binder. European Conference on Computer Vision. 2020. Paper.
- **Urban Zoning Using Higher-Order Markov Random Fields on Multi-View Imagery Data:** Tian Feng\*, Quang-Trung Truong\*, Duc-Thanh Nguyen, Jing Yu Koh, Lap-Fai Yu, Alexander Binder, Sai-Kit Yeung. European Conference on Computer Vision. Munich, Germany. 2018. (\* **Co-first author**). Paper.
- **SHREC'17: RGB-D to CAD Retrieval with ObjectNN Dataset:** Binh-Son Hua, Quang-Trung Truong, Minh-Khoi Tran, Quang-Hieu Pham, Lap-Fai Yu, Duc Thanh Nguyen, Sai-Kit Yeung. Eurographics 2017 - Proceedings of the Eurographics Workshop on 3D Object Retrieval. France. 2017. Paper.
- **Building the Facial Expressions Recognition System Based on RGB-D Images in High Performance:** Quang-Trung Truong, Quoc-Ngoc Ly. 8th Asian Conference on Intelligent Information and Database System. Da Nang, Viet Nam. 2016. **ORAL**. Paper.

## PREPRINTS

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- **Self-supervised Video Object Segmentation with Distillation Learning of Deformable Attention:** Quang-Trung Truong, Duc Thanh Nguyen, Binh-Son Hua, Sai-Kit Yeung. CVPR submission. 2023. Paper.

## TEACHING

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- **COMP2011 - Programming with C++ HKUST** 2022
- **Scientist-in-Residence Workshops HKMU** 2022

## SERVICES

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Reviewer: MMM(2023), WACV(2024).

## INVITED TALKS

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- University of Information Technology - VNU-HCM Seminar Series June 21, 2023  
Towards Attention-based Approaches for Video Object Segmentation

## WORK HISTORY

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- **Nichietsu company** Ho Chi Minh city, Vietnam  
*Lead software engineer* *2020 - 2021*
- **Vision, Graphics and Computational Design Group, SUTD** Singapore  
*Research Assistant* *2016 - 2018*
- **VIETMAP Company Limited** Ho Chi Minh city, Vietnam  
*Software engineer* *2016*

## SKILLS

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- 7+ plus years of related experience
- Interest and ability to quickly learn and apply newer machine learning algorithms
- Programming skills in different OS (Linux, Windows), Python, C/C++, Perl, Bash Shell, Tensorflow, Torch, pyTorch, MATLAB, HTML, Javascript, OpenCV, OpenGL, PCL
- Knowledge of generating features from sensor technology like camera, lidar, GPS
- Take initiative to launch projects with the ability to quickly learn and develop own idea in an interdisciplinary environment
- Working knowledge of web technologies
- Good problem solving and analytic skills
- Knowledge of various databases such as MongoDB, SQL
- Strong expertise in deep learning

## AWARDS

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- **Research Travel Grant** HKUST 2022
- **Postgraduate Studentship** HKUST 2021, 2022
- **University Student Mobile Programming Honor** Nokia 2013  
Developed game, published in the Windows Phone Store, and then ported to AshaFT application in the Ovi store. My game "Racing animal" had been rated 4.5 stars over the first two months in the Windows Phone Store.
- **SHREC'17: RGB-D to CAD Retrieval with ObjectNN Dataset** Third prize 2017

## PROFESSIONAL ACTIVITIES

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- Speaker at 8th Asian Conference on Intelligent Information and Database System Da Nang city, Vietnam  
March 2016
- Organiser of the Eurographics 2017 Workshop on 3D Object Retrieval  
(<https://github.com/hkust-vgd/shrec17>).  
September 2017 Lyon, France