Minh Tran

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Education

Ph.D. Computer Science, University of Arkansas 2021 – present
- Advisor: Ngan Le
- Research topics: Instance and Semantic Segmentation

B.Sc. Computer Science, Honor Program, University of Science, VNU-HCM 2016 – 2020
- Advisor: Ngoc Quoc Ly

Employment

Research Engineer, AIOZ AI Aug 2020 – Aug 2021
- Supervisors: Tuong Do, Anh Nguyen
- Research topics: Indoor Robot Navigation, Federated Learning for Autonomous Driving, Medical Imaging.

Publications

JOURNAL ARTICLES

1. **M. Tran**, T. Do, H. Tran, E. Tjiputra, Q. D. Tran, and A. Nguyen. Light-weight deformable registration using adversarial learning with distilling knowledge. *IEEE transactions on medical imaging*, 41(6):1443–1453, 2022.

CONFERENCE ARTICLES

2. **M. Tran**, K. Vo, K. Yamazaki, A. Fernandes, M. Kidd, and N. Le. Aisformer: Amodal instance segmentation with transformer. In *The 33rd British Machine Vision Conference, 2022*, 2022.

3. **M. Tran**, V.-K. Vo-Ho, and N. T. Le. 3dconvcaps: 3dunet with convolutional capsule encoder for medical image segmentation. In *2022 26th International Conference on Pattern Recognition (ICPR)*, pages 4392–4398. IEEE, 2022.

4. **M. Tran**, L. Ly, B.-S. Hua, and N. Le. Ss-3dcapsnet: Self-supervised 3d capsule networks for medical segmentation on less labeled data. In *2022 IEEE International Symposium on Biomedical Imaging (ISBI)*, 2022.

5. A. Nguyen, T. Do, **M. Tran**, B. X. Nguyen, C. Duong, T. Phan, E. Tjiputra, and Q. D. Tran. Deep federated learning for autonomous driving. In *2022 IEEE Intelligent Vehicles Symposium (IV)*, 2021.

6. T. Do, B. X. Nguyen, E. Tjiputra, **M. Tran**, Q. D. Tran, and A. Nguyen. Multiple meta-model quantifying for medical visual question answering. In *Medical Image Computing and Computer Assisted Intervention–MICCAI 2021: 24th International Conference, Strasbourg, France, September 27–October 1, 2021, Proceedings, Part V 24*, pages 64–74. Springer International Publishing, 2021.

7. **M. Tran** and N. Q. Ly. Mobile robot planner with low-cost cameras using deep reinforcement learning. In *2020 7th NAFOSTED Conference on Information and Computer Science (NICS)*, pages 54–59. IEEE, 2020.

Projects

1. aistron: Amodal Instance Segmentation Toolbox and Benchmark 2023
   URL: *https://github.com/trqminh/aistron*
2. AIOZ AI BEETLEBOT: Self-Driving Delivery Robot 2020 – 2021
   URL: *https://beetle.aioz.io/*

Awards

Rodger S. Kline Chair in Computer Science and Computer Engineering Scholarship 2022

W.R. Thomas Endowed Doctoral Fellowship Fund 2022

Teaching

1. Teaching Assistant | University of Arkansas 2023
   CSCE 4133: Algorithms
2. Teaching Assistant | NACME Google Applied Machine Learning Intensive (AMLI) 2022
   Summer Bootcamp

Professional Service

Conference Reviewing

Medical Image Computing and Computer Assisted Intervention (MICCAI) 2023

Professional Memberships

IEEE Membership