

Guodong Ding

Senior Research Fellow

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Research Interest

video understanding, temporal & sequential modeling, learning with less supervision, continual learning

Education

- 2013 – 2020 **Ph. D.** in Computer Science
Nanjing University of Science & Technology
Thesis title: *Deep Learning based Person Re-identification under Different Supervisions*
- 2009 – 2013 **B. Eng.** in Computer Science
Nanjing University of Science & Technology
Thesis title: *Content based Commodity Image Retrieval.*

Academic Experience

- 2020 – now **Research Fellow**
School of Computing, National University of Singapore, Singapore.
- 06 – 10.2019 **Research Intern**, Computer Vision Team, QCT, Qualcomm Shanghai, China.
- 02 – 11.2017 **Visiting Scholar**, Australian National University, Australia.
- 2015 – 2017 **Research Assistant**, The Hong Kong Polytechnic University, HKSAR, China.

Services

- Organizer **Action Localization & Segmentation in Untrimmed Videos** tutorial
ECCV 2022
- Reviewer **Journal:** TPAMI, TMM, TIP, TII, TCSVT
Conference: CVPR, ICCV, ECCV, BMVC, ICME

Advised Students

- 2023 – now **Master:** Hans Golong

Publications

Preprints

- [W1] **G. Ding**, F. Sener, S. Ma, and A. Yao, "Every Mistake Counts in Assembly", 2023. arXiv: 2307.16453.
- [W2] **G. Ding**, S. Khan, Z. Tang, J. Zhang, and F. Porikli, "Towards better validity: Dispersion based clustering for unsupervised person re-identification", 2019. arXiv: 1906.01308.

Journal Articles

- [J1] **G. Ding**, F. Sener, and A. Yao, "Temporal Action Segmentation: An Analysis of Modern Techniques," *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2023. DOI: 10.1109/TPAMI.2023.3327284.
- [J2] **G. Ding** and A. Yao, "Temporal Action Segmentation with High-level Complex Activity Labels," *IEEE Transactions on Multimedia (TMM)*, vol. 25, pp. 1928–1939, 2023. DOI: 10.1109/TMM.2022.3231099.
- [J3] Q. Yin, G. Wang, **G. Ding**, Q. Li, S. Gong, and Z. Tang, "Rapid person re-identification via sub-space consistency regularization," *Neural Processing Letters (NPL)*, vol. 55, no. 3, pp. 3149–3168, 2023. DOI: 10.1007/s11063-022-11002-5.
- [J4] Q. Yin, **G. Ding**, S. Gong, Z. Tang, *et al.*, "Multi-view label prediction for unsupervised learning person re-identification," *IEEE Signal Processing Letters (SPL)*, vol. 28, pp. 1390–1394, 2021. DOI: 10.1109/LSP.2021.3090258.

- [J5] **G. Ding**, S. Khan, Z. Tang, and F. Porikli, "Feature mask network for person re-identification," *Pattern Recognition Letters (PRL)*, vol. 137, pp. 91–98, 2020. DOI: 10.1016/j.patrec.2019.02.015.
- [J6] **G. Ding**, S. Zhang, S. Khan, Z. Tang, J. Zhang, and F. Porikli, "Feature Affinity-Based Pseudo Labeling for Semi-Supervised Person Re-Identification," *IEEE Transactions on Multimedia (TMM)*, vol. 21, no. 11, pp. 2891–2902, 2019. DOI: 10.1109/TMM.2019.2916456.

Conference Proceedings

- [C1] **G. Ding** and A. Yao, "Leveraging Action Affinity and Continuity for Semi-supervised Temporal Action Segmentation," in *ECCV*, 2022.
- [C2] **G. Ding**, S. Khan, Z. Tang, J. Zhang, and F. Porikli, "Dispersion based clustering for unsupervised person re-identification," in *BMVC*, 2019.
- [C3] **G. Ding**, S. Zhang, S. Khan, and Z. Tang, "Center Based Pseudo-Labeling for Semi-Supervised Person Re-Identification," in *ICMEW*, 2018.