Guodong Ding

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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

[1] **G. Ding**, F. Sener, S. Ma, and A. Yao, *"Every Mistake Counts in Assembly"*, 2023. arXiv: 2307.16453.

[2] **G. Ding**, F. Sener, and A. Yao, *"Temporal Action Segmentation: An Analysis of Modern Techniques"*, 2022. arXiv: 2210.10352.

[3] **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

[1] **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.

[2] 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.

[3] 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.

[4]   **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.

[5]   **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

[1]   **G. Ding** and A. Yao, "Leveraging Action Affinity and Continuity for Semi-supervised Temporal Action Segmentation," in *ECCV*, 2022.

[2]   **G. Ding**, S. Khan, Z. Tang, J. Zhang, and F. Porikli, "Dispersion based clustering for unsupervised person re-identification," in *BMVC*, 2019.

[3]   **G. Ding**, S. Zhang, S. Khan, and Z. Tang, "Center Based Pseudo-Labeling for Semi-Supervised Person Re-Identification," in *ICMEW*, 2018.