Yantao SHEN

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Personal Profile

Yantao SHEN obtained his Ph.D. degree in Electronic Engineering from the Department of Electronic Engineering, The Chinese University of Hong Kong. He was supervised by Prof. Xiaogang Wang and Prof. Hongsheng Li.

Education

2015-2020 The Chinese University of Hong Kong, HKSAR, China
Ph.D. candidate in Electronic Engineering,
supervisor: Prof. Xiaogang Wang and Prof. Hongsheng Li

2011-2015 Northeastern University, Shen Yang, China
B.Eng. in Automation

Research Interest

Computer Vision, Deep Learning, especially for large-scale classification/retrieval, and model compatibility. I am now exploring the model compatibility application for many machine learning tasks.

Experience

Jun 2019-Dec 2019 Applied Scientist Intern
Amazon Web Services (AWS), Rekognition, Seattle, WA, United States

Jul 2020-Aug 2021 Senior Research Scientist
Tencent, Shenzhen, Guangdong, China

Aug 2021-Now Senior Applied Scientist
Amazon Web Services (AWS), Rekognition, Seattle, WA, United States

Publication

Towards Backward-Compatible Representation Learning

Y. Shen, Y. Xiong, W. Xia, S. Soatto, *Computer Vision and Pattern Recognition*, (**CVPR**), 2020, **(Oral)**.

Person Re-identification with Deep Kronecker-Product Matching and Group-shuffling Random Walk

Y. Shen, H. Li, T. Xiao, S. Yi, D. Chen, X. Wang, *IEEE Transactions on Pattern Analysis and Machine Intelligence.*, (**TPAMI**), 2019.

Person Re-identification with Deep Similarity-Guided Graph Neural Network

Y. Shen, H. Li, S. Yi,D. Chen, X. Wang, *15th European Conference on Computer Vision*, (**ECCV**), 2018.

Deep Group-shuffling Random Walk for Person Re-identification

Y. Shen, H. Li, S. Yi, D. Chen, X. Wang, *Computer Vision and Pattern Recognition*, (**CVPR**), 2018.

End-to-End Deep Kronecker-Product Matching for Person Re-identification

Y. Shen*, **T. Xiao***, H. Li, S. Yi, X. Wang, *Computer Vision and Pattern Recognition*, (**CVPR**), 2018.
($*$ denotes co-first authors)

Learning Deep Neural Networks for Vehicle Re-ID with Visual-spatio-temporal Path Proposals

Y. Shen, T. Xiao, H. Li, S. Yi, X. Wang. *International Conference on Computer Vision*, (**ICCV**), 2017.

Improving deep visual representation for person re-identification by global and local image-language association

D. Chen, H. Li, X. Liu, **Y. Shen**, J. Shao, Z. Yuan, X. Wang. *15th European Conference on Computer Vision*, (**ECCV**), 2018.