SUNCHENG XIANG

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Personal Webpage: https://JeremyXSC.github.io/

RESEARCH INTERESTS

Machine Learning and Computer Vision
Image Retrieval, Person Re-Identification, Representation Learning
Domain Adaptation, Image Generation, Generative Adversarial Network

EDUCATION

Shanghai Jiao Tong University, Shanghai, China — 2017 - Present
Ph.D in Computer Science and Technology

National University of Defense Technology, Changsha, China — 2014 - 2017
M.S in Software Engineering

Changsha University of Science & Technology, Changsha, China — 2010 - 2014
B.S in Electrical Engineering and Automation

PREPRINTS

1. VTBR: Semantic-based Pretraining for Person Re-Identification
   arXiv preprint arXiv:2110.05074, 2021.
   Suncheng Xiang, Zirui Zhang, Mengyuan Guan, Hao Chen, Binjie Yan, Ting Liu, Yuzhuo Fu

2. Less is More: Learning from Synthetic Data with Fine-grained Attributes for Person Re-Identification
   arXiv preprint arXiv:2109.10498, 2021.
   Suncheng Xiang, Guanjie You, Mengyuan Guan, Hao Chen, Feng Wang, Ting Liu, Yuzhuo Fu

3. Attribute Analysis with Synthetic Dataset for Person Re-Identification
   arXiv preprint arXiv:2006.07139, 2020.
   Suncheng Xiang, Yuzhuo Fu, Guanjie You, Ting Liu

JOURNAL PUBLICATIONS

1. Learning from Self-Discrepancy via Multiple Co-teaching for Cross-Domain Person Re-Identification
   Machine Learning (**ML**), 2021. (*Invited Paper. Under Review.*)
   Suncheng Xiang, Yuzhuo Fu, Mengyuan Guan, Ting Liu

2. Multi-level Feature Learning with Attention for Person Re-Identification
   Multimedia Tools and Applications (**MTA**), 2020.
   Suncheng Xiang, Yuzhuo Fu, Hao Chen, Wei Ran, Ting Liu

3. Progressive Learning with Style Transfer for Distant Domain Adaptation
   IET Image Processing (**IET-IPR**), 2020.
   Suncheng Xiang, Yuzhuo Fu, Ting Liu

4. Unsupervised Person Re-Identification by Hierarchical Cluster and Domain Transfer
   Multimedia Tools and Applications (**MTA**), 2020.
   Suncheng Xiang, Yuzhuo Fu, Mingye Xie, Zefang Yu, Ting Liu

CONFERENCE PUBLICATIONS

1. Learning from Self-Discrepancy via Multiple Co-teaching for Cross-Domain Person Re-Identification
   International Joint Conference on Artificial Intelligence WSRL Workshop (**IJCAIW**), 2021.
   Suncheng Xiang, Yuzhuo Fu, Mengyuan Guan, Ting Liu

2. Attention based Facial Expression Manipulation
   IEEE International Conference on Multimedia and Expo Workshops (**ICMEW**), 2021.
   Feng Wang, **Suncheng Xiang**, Ting Liu, Yuzhuo Fu

3. Taking a Closer Look at Synthesis: Fine-grained Attribute Analysis for Person Re-Identification
   IEEE International Conference on Acoustics, Speech and Signal Processing (**ICASSP**), 2021.
   Suncheng Xiang, Yuzhuo Fu, Guanjie You, Ting Liu

4. Unsupervised Domain Adaptation Through Synthesis for Person Re-Identification
   IEEE International Conference on Multimedia and Expo (**ICME**), 2020.
   Suncheng Xiang, Yuzhuo Fu, Guanjie You, Ting Liu

5. Deep Unsupervised Progressive Learning for Distant Domain Adaptation
   IEEE International Conference on Tools with Artificial Intelligence (**ICTAI**), 2019. (**Oral**)
   Suncheng Xiang, Yuzhuo Fu, Ting Liu

PATENTS

1. A Method, Equipment and Storage Medium for Re-Identification of Inland Water Vessels Based on Transfer Learning
   CN111259812A,2020-06-09
   Yuzhuo Fu, Ting Liu, **Suncheng Xiang**

AWARDS

- Leo KoGuan Scholarship, SJTU, 2019 - 2020
- Merit Student, SJTU, 2018-2019
- First-class Academic Scholarship, NUDT, 2016-2017

- Outstanding Student, NUDT, 2015-2016
- Outstanding Student, NUDT, 2014-2015
- Third-class Academic Scholarship, Outstanding League Cadres, CSUST, 2012-2013
- First-class Academic Scholarship, Merit Student, Model Student of Academic Records, CSUST, 2011-2012
- Third-class Academic Scholarship, Excellent League Member, CSUST, 2010-2011

PROFESSIONAL ACTIVITIES

Journal Review

IET Image Processing
IEEE Access
Signal Processing: Image Communication
Pattern Recognition
IEEE Transactions on Multimedia

Program Committees

Session Chair of ICTAI 2019

SKILLS

Programming: Python, MATLAB, C/C++
Deep Learning: Pytorch, TensorFlow, Caffe

COURSES & TEACHING

Ph.D. Courses Taken:

- Advanced Computer Architecture
- Neural Network and Machine Learning
- Image Processing and Machine Vision

Teaching Assistant:

- Fundamentals of College Computer, NUDT (Lead TA, Fall 2015)
- Digital Integrated Circuits, SJTU (Lead TA, Spring 2018)
- Operating System, SJTU (Lead TA, Fall 2018)
- Digital Integrated Circuits, SJTU (Lead TA, Fall 2020)

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