

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 Ph.D in Computer Science and Technology	2017 - Present
National University of Defense Technology , Changsha, China M.S in Software Engineering	2014 - 2017
Changsha University of Science & Technology , Changsha, China B.S in Electrical Engineering and Automation	2010 - 2014

PREPRINTS

1. 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
2. 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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