

# SUNCHENG XIANG

Email: [xiangsuncheng17@sjtu.edu.cn](mailto:xiangsuncheng17@sjtu.edu.cn) • [Google Scholar](#)  
Personal Webpage: <https://JeremyXSC.github.io/>

## Research Interests

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### Machine Learning and Computer Vision

Image Retrieval, Person Re-Identification, Representation Learning  
Domain Adaptation, Image Generation, Generative Adversarial Network

## Education

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<b>Shanghai Jiao Tong University</b> , Shanghai, China Ph.D in Computer Science and Technology	2017 - 2022
<b>National University of Defense Technology</b> , Changsha, China M.S in Software Engineering	2014 - 2017
<b>Changsha University of Science &amp; Technology</b> , Changsha, China B.S in Electrical Engineering and Automation	2010 - 2014

## Preprints

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- [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

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- [4]. Learning from Self-Discrepancy via Multiple Co-teaching for Cross-Domain Person Re-Identification  
Machine Learning (ML), 2021. (**Invited Paper**)  
**Suncheng Xiang**, Yuzhuo Fu, Mengyuan Guan, Ting Liu
- [5]. 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

- [6]. Progressive Learning with Style Transfer for Distant Domain Adaptation  
IET Image Processing (**IET-IPR**), 2020.  
**Suncheng Xiang**, Yuzhuo Fu, Ting Liu
- [7]. 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

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- [8]. CDTnet: Cross-Domain Transformer based on Attributes for Person Re-Identification  
IEEE International Conference on Multimedia and Expo Workshops (**ICMEW**), 2022.  
Mengyuan Guan, **Suncheng Xiang**, Ting Liu, Yuzhuo Fu
- [9]. Rethinking Illumination for Person Re-Identification: A Unified View  
IEEE Conference on Computer Vision and Pattern Recognition Workshops (**CVPRW**), 2022.  
**Suncheng Xiang**, Guanjie You, Leqi Li, Mengyuan Guan, Ting Liu, Dahong Qian, Yuzhuo Fu
- [10]. Spatial Attention Guided Local Facial Attribute Editing  
IEEE International Conference on Multimedia and Expo (**ICME**), 2022.  
Mingye Xie, **Suncheng Xiang**, Feng Wang, Ting Liu, Yuzhuo Fu  
Acceptance Rate = 29%
- [11]. 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
- [12]. Attention based Facial Expression Manipulation  
IEEE International Conference on Multimedia and Expo Workshops (**ICMEW**), 2021.  
Feng Wang, **Suncheng Xiang**, Ting Liu, Yuzhuo Fu
- [13]. 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  
Acceptance Rate =  $1734 / 3610 = 48\%$
- [14]. 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  
Acceptance Rate =  $241 / 834 = 29\%$
- [15]. 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  
Acceptance Rate = 28%

## Patents

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- [16]. A Method, Equipment and Storage Medium for Re-Identification of Inland Water Vessels Based on Transfer Learning  
National Invention Patent. Patent No: CN202010053647.6  
Yuzhuo Fu, Ting Liu, **Suncheng Xiang**

## Awards

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- Outstanding Doctoral Graduate, SJTU, 2022
- 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

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### Journal Review

- IEEE Transactions on Image Processing
- IEEE Transactions on Multimedia
- Pattern Recognition
- IET Image Processing
- IEEE Access
- Signal Processing: Image Communication
- Expert Systems with Applications

### Conference Review

- IWACCE2022

## Program Committees

- Session Chair of ICTAI 2019

## Skills

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

## Courses & Teaching

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### Ph.D. Courses Taken:

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

### Teaching Assistant:

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

## Invited Talks

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- 2022.03: Learning from Synthetic Data with Fine-grained Attributes, Fudan University
- 2021.12: Leveraging Synthetic Data for Person Re-Identification, Hunan University
- 2021.12: Learning from Synthetic Data for Person Re-Identification, Donghua University

## Open Source

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Codes and models for my published papers are available on my GitHub:

<https://github.com/JeremyXSC/>

Last updated: May 26, 2022