

# Xiaobin Liu (刘晓滨)

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## BRIEF BIO

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I received the B.E. degree from Nankai University in 2016. I am currently a fifth year Ph.D. student at Peking University. My research interests include deep learning and computer vision, with focus on image retrieval, vehicle and person re-identification, and deep metric learning.

## EDUCATION BACKGROUND

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**Peking University, Beijing, China**

2016.09-present

Ph.D. Student in Computer Applied Technology



**Nankai University, Tianjin, China**

2012.09-2016.06

Bachelor of Engineering in Artificial Science and Technology

## PUBLICATIONS

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1. **Xiaobin Liu**, Shiliang Zhang. Who is closer: A Computational Model for Domain Gap Evaluation. Under reviewing.
2. **Xiaobin Liu**, Shiliang Zhang. Domain Adaptive Person Re-Identification via Coupling Optimization. ACM MM, 2020, **Oral**.
3. **Xiaobin Liu**, Shiliang Zhang, Xiaoyu Wang, Richang Hong, Qi Tian. Group-Group Loss Based Global-Regional Feature Learning for Vehicle Re-Identification. IEEE TIP, 2019.
4. **Xiaobin Liu**, Shiliang Zhang, Tiejun Huang, Qi Tian. E2BoWs: An End-to-End Bag-of-Words Model via Deep Convolutional Neural Network for Image Retrieval. Neurocomputing, 2019.
5. Jianzhong He, **Xiaobin Liu**, Shiliang Zhang. EAGER: Edge-Aided imaGe understanding System, ICMR, 2019.
6. **Xiaobin Liu**, Shiliang Zhang, Ming Yang. Self-Guided Hash Coding for Large-Scale Person Re-Identification, MIPR, 2019, **Oral**. (Acceptance rate: **19.3%**)
7. Shangzhi Teng, **Xiaobin Liu**, Shiliang Zhang, Qingming Huang. SCAN: Spatial and Channel Attention Network for Vehicle Re-Identification, PCM, 2018.
8. Longhui Wei, **Xiaobin Liu**, Jianing Li, Shiliang Zhang. VP-ReID: Vehicle and Person Re-Identification System, ICMR, 2018.
9. **Xiaobin Liu**, Shiliang Zhang, Qingming Huang, Wen Gao. RAM: A Region-Aware Deep Model for Vehicle Re-Identification, ICME, 2018.
10. **Xiaobin Liu**, Shiliang Zhang, Tiejun Huang, Qi Tian. E2BoWs: An End-to-End Bag-of-Words Model via Deep Convolutional Neural Network, China MM, 2017.

## PATENTS

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1. Shiliang Zhang, Qi Tian, Wen Gao, **Xiaobin Liu**. An Algorithm and System for Vehicle Re-Identification. CN Patent Number: 201711395760.7.
2. Shiliang Zhang, **Xiaobin Liu**. An algorithm for domain adaptive person Re-Identification based on Coupling Optimization. Patent Pending.

## APPLICATION SYSTEMS

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|--|-----------------|
| 1. EAGER: Edge-Aided imaGe understanding System.               | 2018.12-2019.02 |
| 2. VP-ReID: Vehicle and Person Re-Identification System.       | 2017.08-2018.02 |
| 3. Large-Scale Retrieval System for Person and Vehicle Images. | 2017.06-2017.09 |

## AWARDS

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1. Special Academic Scholarship, Peking University, 2020.
2. Outstanding member of the Communist Youth League of Peking University, 2020.
3. Special Academic Scholarship, Peking University, 2019.
4. Special Academic Scholarship, Peking University, 2018.
5. Excellence Talents Scholarship, Cooperative Medianet Innovation Center, 2018. (Among top 5 in 2nd-year Ph.D. students in National Engineering Laboratory for Video Technology.)

## ACADEMIC SERVICES

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I am reviewer of the following journals or conferences:

1. IEEE Transactions on Image Processing (T-IP)
2. IEEE Transactions on Vehicular Technology (T-VT)
3. IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT)
4. IEEE Transactions on Intelligent Transportation Systems (T-ITS)
5. IEEE Journal of Biomedical and Health Informatics (JBHI)
6. IET Computer Vision (IET-CVI)
7. Neurocomputing
8. AAAI 2020
9. ISCAS 2020
10. VCIP 2020