



# Guan'an Wang (王贯安)

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**Interests:**

Artificial Intelligence, Computer Vision, Pattern Recognition

Person Re-Identification, Hashing (Fast Image Retrieval), GAN

## EDUCATIONS

- ◆ **2015.09 - present:** Ph.D. Candidate  
Supervisor: [Prof. Zeng-Guang Hou \(IEEE Fellow\)](#), [Prof. Jian Cheng](#)  
University: [Institute of Automation, Chinese Academy of Sciences \(CAISA\)](#), Beijing, China.  
[9 papers](#) published (all CV/AI top conf/journal), [3 papers](#) under review
- ◆ **2019.09 - present:** Visiting Ph.D. Student  
Supervisor: [Prof. Shaogang Gong](#)  
University: [Queen Mary University of London \(QMUL\)](#), London, UK.
- ◆ **2011.09 - 2015.06:** Bachelor Degree  
University: School of Information Science and Engineer, [Central South University \(CSU\)](#), Hunan, China.  
[Ranking 1<sup>st</sup>/180+](#), 2014.10 enrolled to CASIA without entrance examination

## PUBLICATIONS

- ◆ [Guan'an Wang](#), Shaogang Gong, Jian Cheng, Zeng-Guang Hou. "Faster Person Re-Identification". In Proceedings of the European Conference on Computer Vision ([ECCV, CV TOP](#)), 2020.
- ◆ [Guan'an Wang\\*](#), Shuo Yang\*, Huanyu Liu, Zhicheng Wang, Yang Yang, Shuliang Wang, Gang Yu, Erjin Zhou, Jian Sun. "High-Order Information Matters: Learning Relation and Topology for Occluded Person Re-Identification". In Proceedings of Conference on Computer Vision and Pattern Recognition ([CVPR, CCF-A](#)), 2020. (\*equal contribution)
- ◆ [Guan'an Wang](#), Tianzhu Zhang, Yang Yang, Jian Cheng, Jianlong Chang, Xu Liang, Zengguang Hou. "Cross-Modality Paired-Images Generation for RGB-Infrared Person Re-Identification". In Proceedings of The Thirty-Fourth AAAI Conference on Artificial Intelligence ([AAAI, CCF-A](#)), 2020.
- ◆ [Guan'an Wang](#), Tianzhu Zhang, Jian Cheng, Si Liu, Yang Yang, Zengguang Hou. "RGB-Infrared Cross-Modality Person Re-Identification via Joint Pixel and Feature Alignment". In Proceedings of International Conference on Computer Vision ([ICCV, CCF-A](#)), 2019.
- ◆ [Guan'an Wang](#), Yang Yang, Jian Cheng, Jinqiao Wang, Zengguang Hou. "Color-Sensitive Person Re-Identification". In Proceedings of International Joint Conference on Artificial Intelligence ([IJCAI, CCF-A](#)), 2019.
- ◆ [Guan'an Wang](#), Qinghao Hu, Jian Cheng, Zengguang Hou. "Semi-Supervised Generative Adversarial Hashing for Image Retrieval." In Proceedings of the European Conference on Computer Vision ([ECCV, CV TOP](#)), 2018.

- ◆ **Guan'an Wang\***, Yang Yang\*, Tianzhu Zhang, Jian Cheng, Zengguang Hou, Prayag Tiwari, Hari Mohan Pandey. "Cross-Modality Paired-Images Generation and Augmentation for RGB-Infrared Person Re-Identification". Neural Networks (**SCI, IF=5.785**).
- ◆ Zhen-Liang Ni, Gui-Bin Bian, **Guan'an Wang**, Xiaohu Zhou, Zeng-Guang Hou, Hua-Bin Chen, Xiao-Liang Xie. "Pyramid Attention Aggregation Network for Semantic Segmentation of Surgical Instruments". In Proceedings of The Thirty-Fourth AAAI Conference on Artificial Intelligence (**AAAI, CCF-A**), 2020.
- ◆ Zhen-Liang Ni, Gui-Bin Bian, **Guan'an Wang**, Xiaohu Zhou, Zeng-Guang Hou, Xiao-Liang Xie, Zhen Li, Yu-Han Wang. "BARNet: Bilinear Attention Network with Adaptive Receptive Field for Surgical Instrument Segmentation". In Proceedings of International Joint Conference on Artificial Intelligence (**IJCAI, CCF-A**), 2020.

## UNDERREVIEW

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- ◆ **Guan'an Wang**, Yang Yang, Shaogang Gong, Jian Cheng, Zeng-Guang Hou. "Graph Zero-Shot Hashing".
- ◆ **Guan'an Wang**, Qinghao Hu, Yang Yang, Jian Cheng, Zeng-Guang Hou. "Adversarial Binary Mutual Learning for Semi-Supervised Deep Hashing".
- ◆ Yang Yang\*, **Guan'an Wang\***, Prayag Tiwari, Hari Mohan Pandey and Zhen Lei. "Pixel and Feature transfer Fusion for Unsupervised Cross-Dataset Person Re-Identification".

## HONORS

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- ◆ **Scholarship of State Scholarship Fund** to the UK awarded by China Scholarship Council, 2019
- ◆ **Outstanding Graduate** of Hunan Province, China 2015
- ◆ **Outstanding Graduate** of Center South University, 2015
- ◆ **Meritorious Winner** (<10%) in American College Student Mathematical Modeling Contest, 2014
- ◆ **First Prize** in Intelligent Vehicle Contest of Hunan Province, 2014
- ◆ **National Scholarship** (<5%), 2012, 2014
- ◆ **School Principal Scholarship** (< 1%) in Center South University, 2012, 2013, 2014

## ACTIVITIES

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- ◆ **Conference Reviewers**
  - NeurIPS2020, IJCAI2020, CVPR2020, AAAI2020, BMVC2020, ICCV2019, CVPR2019, AAAI2019
- ◆ **Journal Reviewers**
  - International Journal of Computer Vision (IJCV)
  - IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
  - IEEE Transactions on Multimedia (TMM)
- ◆ **Invited Lecturer** of the GAN Theory and Practice in online deep learning course

## SKILLS

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- ◆ Programming: Python, PyTorch, TensorFlow, Matlab, C, Latex
- ◆ Research Tools: Pycharm, Viso, Word, PowerPoint