

Rui Zhao (zhaorui.xyz)

Contact Information

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Summary

- 10-year R&D experience on image/video related computer vision applications, especially on face recognition and person re-identification.
- 5-year experience of leading and delivering industrial projects.
- Management experience of a 40-people team.
- Outstanding academic record with 20+ papers published in top conferences and journals, and over 5,000 Google Scholar citations.
- Fast learner & team player with passionate commitment at work.

Working Experience

SenseTime Group Limited (Shenzhen)	Executive Research Director	2019-now
SenseTime Group Limited (Shenzhen)	Research Director	2018-2019
SenseNets Technology (Shenzhen)	CTO	2017-2018
SenseNets Technology (Shenzhen)	R&D VP	2016-2017
SenseNets Technology (Shenzhen)	R&D Director	2015-2016
SenseTime Group Limited (Hong Kong)	Senior Researcher	2015-2016
The Chinese University of Hong Kong	Research Assistant	2010-2011

Education

The Chinese University of Hong Kong (CUHK), Shatin, Hong Kong	2010-2015
Doctor of Philosophy, Electronic Engineering	
University of Science and Technology of China (USTC), Hefei, China	2006-2010
Bachelor, Information Science and Electronic Engineering	

Grants, Honors and Awards

• Wu Wen Jun AI Award for Scientific and Technology Progress (Ministry of Education of China)	2019
• Outstanding Team Award (SenseTime)	2018
• Dean's Innovation Technology Breakthrough Award (First Prize) (SenseTime)	2018
• Black Sheep Award (SenseTime, 1%)	2018
• Excellent Manager Award (SenseNets)	2016-2017
• Ling-Hang Talent (Government of Shenzhen Nanshan District)	2017
• Peacock Program Talent Award (Shenzhen Municipal Government)	2016
• Outstanding Reviewer Award (ECCV 2016)	2016
• Doctoral Consortium Award (CVPR 2015)	2015
• Commendation for Outstanding Tutorial (CUHK)	2014

- Student Travel Grant (ICCV 2013) 2013
- Postgraduate Grants for Overseas Academic Activities (CUHK) 2013
- Postgraduate Studentship (CUHK) 2011-2014
- Second Prize in Mathematical Contest in Modeling (USTC) 2009
- Excellence Award in RoboGame Contest (USTC) 2008
- Excellent Undergraduate Scholarship (USTC) 2007-2009
- Excellent Freshman Scholarship (USTC) 2006

PUBLICATIONS

- ArXiv Preprints** A1. H. Li, **R. Zhao**, and X. Wang, “Highly Efficient Forward and Backward Propagation of Convolutional Neural Networks for Pixelwise Classification,” *Preprint*, ArXiv:1412.4526
- Book Chapters** B1. X. Wang, and **R. Zhao**, “Person Re-Identification: System Design and Evaluation Overview,” *in book “Person Re-identification” edited by Shaogang Gong, Marco Cristani, Shuicheng Yan, and Chen Change Loy, published by Springer, 2014.*
- Peer-reviewed Journal Papers** J2. **R. Zhao**, W. Ouyang and X. Wang, “Person Re-identification by Saliency Learning,” *in IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, vol.39, pp.356-370, 2017.
- J1. **R. Zhao** and X. Wang, “Counting Vehicles from Semantic Regions,” *in IEEE Transactions on Intelligent Transportation Systems (TITS)*, vol.14, no.2, pp.1016-1022, March 2013.
- Peer-reviewed Conference Papers** C15. Shijie Yu, Shihua Li, Dapeng Chen, **Rui Zhao**, Junjie Yan, Yu Qiao, “COCAS: A Large-Scale Clothes Changing Person Dataset for Re-identification,” *in IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)* 2020.
- C14. Senhui Guo, Jing Xu, Dapeng Chen, Chao Zhang, Xiaogang Wang, **Rui Zhao**, “Density-Aware Feature Embedding for Face Clustering,” *in IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)* 2020.
- C13. Lei Yang, Dapeng Chen, Xiaohang Zhan, **Rui Zhao**, Chen Change Loy, Dahua Lin, “Learning to Cluster Faces via Confidence and Connectivity Estimation,” *in IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)* 2020.
- C12. Suichan Li, Dapeng Chen, Bin Liu, Nenghai Yu, **Rui Zhao**, “Memory-Based Neighbourhood Embedding for Visual Recognition,” *in IEEE International Conference on Computer Vision (ICCV)* 2019.
- C11. X. Zhang, **R. Zhao**, Y. Qiao, X. Wang, and H. Li, “AdaScale: Adaptively Scaling Cosine Logits for Effectively Learning Deep Face Representations,” *in IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)* 2019.
- C10. X. Zhang, **R. Zhao**, J. Yan, M. Gao, Y. Qiao, X. Wang, and H. Li, “P2SGrad: Refined Gradients for Optimizing Deep Face Models,” *in IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)* 2019.
- C9. J. Xu, **R. Zhao**, F. Zhu, and W. Ouyang, “Attention-Aware Compositional Network for Person Re-identification,” *in IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)* 2018.

- C8. Z. Zhao, H. Li, **R. Zhao** and X. Wang, “Crossing-line Crowd Counting with Two-phase Deep Neural Networks,” in *European Conference on Computer Vision (ECCV)* 2016.
- C7. **R. Zhao**, W. Ouyang, H. Li and X. Wang, “Saliency Detection by Multi-Context Deep Learning,” in *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)* 2015.
- C6. **R. Zhao**, W. Ouyang and X. Wang, “Learning Mid-level Filters for Person Re-Identification,” in *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)* 2014.
- C5. W. Li, **R. Zhao**, T. Xiao and X. Wang, “DeepReid: Deep Filter Pairing Neural Network for Person Re-Identification,” in *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)* 2014.
- C4. **R. Zhao**, W. Ouyang and X. Wang, “Person Re-Identification by Saliency Matching,” in *IEEE International Conference on Computer Vision (ICCV)* 2013.
- C3. **R. Zhao**, W. Ouyang and X. Wang, “Unsupervised Saliency Learning for Person Re-Identification,” in *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)* 2013.
- C2. W. Li, **R. Zhao**, and X. Wang, “Human Reidentification with Transferred Metric Learning,” in *Asian Conference on Computer Vision (ACCV)* 2012.
- C1. L. Zhuang, **R. Zhao**, N. Yu and B. Liu, “SVD Based Linear Filtering in DCT Domain,” in *IEEE International Conference on Image Processing (ICIP)* 2010.

Posters

- P2. **R. Zhao**, W. Ouyang and X. Wang, “Unsupervised Saliency Learning for Person Re-Identification,” in *the 10th ACM-HK Student Research and Career Day (SRCDAY)*, November 19th, 2013.
- P1. **R. Zhao**, W. Ouyang and X. Wang, “Person Re-Identification by Saliency Matching,” in *the 10th ACM-HK Student Research and Career Day (SRCDAY)*, November 19th, 2013.

Technical Skills

- Computer Languages: Python, Matlab, C/C++, JavaScript, HTML, CSS, L^AT_EX
- Productivity Tools: Matlab, Microsoft Visual Studio, Netbeans, Vim, Sublime, Git, SVN
- Python Experience: Numpy, Scipy, Pandas, PyQt, Scikit-learn, Scikit-image, Theano, Pylearn2
- Matlab Experience: Linear algebra, numeric computing, vectorization, parallel computing, CVX optimization, image segmentation, visual feature extraction, visualization
- Operating Systems: Unix/Linux, OS X, Windows

Professional Activities

- Member, IEEE
- Member, the Computer Vision Foundation (CVF)
- Student Volunteer, IEEE International Conference on Image Processing (ICIP), 2010
- Reviewer of
 - IEEE Transaction on Image Processing (TIP)
 - IEEE Transaction on Intelligent Transportation Systems (TITS)
 - IEEE Transaction on Circuits and Systems for Video Technology (TCSVT)
 - IEEE Transaction on Neural Network and Learning System (TNNLS)
 - IEEE Signal Processing Letters (SPL)
 - Elsevier Journal of Neurocomputing (NEUCOM)
 - Elsevier Journal of Image and Vision Computing (IMAVIS)
 - Elsevier Journal of Visual Communication and Image Representation Registration (JVCI)
 - Springer Journal of Machine Vision and Applications (MVA)
 - Springer Book “Person Re-identification”, 2014

- IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), 2015-2018
- ACCV Workshop on Deep Learning on Visual Data (DLVD), 2014
- Program Committee Member of
 - The Association for the Advancement of Artificial Intelligence (AAAI), 2017,2018
 - IEEE International Conference on Multimedia Big Data (BigMM), 2015
 - Asian Conference on Computer Vision (ACCV), 2014,2016,2018
 - ACCV Workshop on Deep Learning on Visual Data (DLVD), 2014

References

- Nenghai Yu Professor, University of Science and Technology of China
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