

# JIMMY SIJIE REN

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Executive Research Director  
AI Sensing and Imaging Group, SenseTime Hong Kong  
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## General Information

I invent and apply machine learning, deep learning and generative A.I. models in the context of image processing, computational photography and computational imaging to create new imaging technologies. I am broadly interested in topics such as super-resolution, deblurring, denoising, stereo matching, inverse problems, etc. Recently, I am very interested in using emerging cameras e.g. event-based cameras and generative A.I. models to solve various challenging imaging problems such as deblurring of highly degraded images, high dynamic range vision, high frame-rate capturing.

I am in the [2023 Stanford's List of World's Top 2% Scientists](#) in the area of Artificial Intelligence & Image Processing. I have over 6900 citations according to Google Scholar. (up to Apr. 2024)

## Work Experiences

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|---|-----------------------|
| <b>SenseTime, Hong Kong</b><br>AI Sensing and Imaging Group   | Apr. 2015 - now       |
| <ul style="list-style-type: none"><li>– Executive Research Director (Feb. 2024 - now)</li><li>– Senior Research Director (Jun. 2021 - Jan. 2024)</li><li>– Research Director (Aug. 2018 - May 2021)</li><li>– Senior Research Scientist (Apr. 2015 - Jul. 2018)</li><li>– Leading a cross-functional R&amp;D team where engineers, scientists, product managers, system integrators work together to create high-impact A.I. products</li><li>– Long-term collaboration with academic partners in renowned universities, such as Peking, Shanghai Jiao Tong, CUHK, HKU, NTU in Singapore, etc.</li><li>– SenseTime Award (company's highest honor) winner in 2021</li></ul> |                       |
| <b>Lenovo Labs, Hong Kong</b><br>Image and Visual Computing Lab   | Sep. 2013 - Mar. 2015 |
| <ul style="list-style-type: none"><li>– Staff Researcher</li></ul>  |                       |
| <b>Ericsson R&amp;D Centre, Shanghai</b><br>Multimedia Solutions  | Jul. 2007 - Aug. 2009 |
| <ul style="list-style-type: none"><li>– Software Engineer</li></ul>   |                       |
| <b>Intel R&amp;D Centre, Shanghai</b><br>Software Solution Group  | Jun. 2006 - Dec. 2006 |
| <ul style="list-style-type: none"><li>– Intern</li></ul>  |                       |

## Academic Appointments

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|--|-----------------------|
| <b>Shanghai Jiao Tong University, Shanghai</b><br>Qing Yuan Research Institute       | Jul. 2023 - now       |
| <ul style="list-style-type: none"><li>– Faculty Search Committee Member</li></ul>    |                       |
| <b>Shanghai Jiao Tong University, Shanghai</b><br>Qing Yuan Research Institute       | Jul. 2020 - Jun. 2023 |
| <ul style="list-style-type: none"><li>– Adjunct Faculty</li></ul>                    |                       |
| <b>Tsinghua University, Shenzhen</b><br>Shenzhen School of Graduate Studies          | Sep. 2017 - Aug. 2020 |
| <ul style="list-style-type: none"><li>– External Graduate Research Advisor</li></ul> |                       |

## Teaching Experiences

- Tsinghua University Shenzhen Graduate School** Aug 2018 - Nov 2018  
Industrial teacher for 2nd Artificial Intelligence in Practice Course (graduate-level course)  
– Course page: <https://www.sigs.tsinghua.edu.cn/2018/1121/c1209a16046/page.htm>
- Tsinghua University Shenzhen Graduate School** Sep 2017 - Dec 2017  
Industrial teacher for 1st Artificial Intelligence in Practice Course (graduate-level course)  
– Course page: <https://www.sigs.tsinghua.edu.cn/2018/0115/c1209a15633/page.htm>
- City University of Hong Kong** Sep 2012 - Dec 2012  
Lecturer for IS3230 Java Programming for Business (undergrad-level course)  
– Course page: <https://www.cityu.edu.hk/catalogue/ug/current/course/IS3230.htm>
- City University of Hong Kong** Jan 2011 – May 2011  
Teaching Assistant for IS6421 Human-Computer Interaction and Multimedia (graduate-level course)  
– Course page: <https://www.cityu.edu.hk/catalogue/pg/201617/course/IS6421.htm>

## Education

- City University of Hong Kong** 2013  
Ph.D. in Information Systems  
– Thesis: Learning Decisions with Unlabeled Data for Business Intelligence  
– Advisor: Stephen Shaoyi Liao
- East China Normal University** 2007  
B.E. in Software Engineering  
– First Class Scholarship Award

## Awards and Honors

- [2023 Stanford's List of World's Top 2% Scientists](#) 2023  
SenseTime Award (company's highest honor) 2021  
SenseTime Research Dean's Project 2020  
Full Graduate Study Scholarship of Hong Kong UGC 2009-2013  
Best Performance of The Year, Ericsson China R&D 2008  
First Class Scholarship Award of ECNU 2007

## Product Shipped

**Sony IMX854 - World's first 2x2OCL A.I. Image Sensor:** We designed an innovative and hardware friendly A.I. based remosaic algorithm for image sensors with Quad-Bayer sensor pattern and 2x2OCL micro-lens architecture. Our technology was shipped to Sony and became the core function in this A.I. Image Sensor, namely IMX854.

**Simultaneous Deblur and Frame Interpolation for HybridEVS Cameras:** A solution for HybridEVS cameras to do simultaneous deblur and frame interpolation. Such system is able to generate high SNR video frames with no motion blur via extended exposure time (e.g. 30FPS video with 60ms frame exposure). The system was demonstrated in MWC shanghai 2023.

**Multi-Frame Image Super-Resolution:** A high performance AI-based super resolution solution for mobile phones. Commercialized since 2018 and currently in its third generation. Achieved the largest market share in China in 2022. Our solution is widely adopted by mainstream Chinese smartphone OEMs such as Oppo, Vivo, Xiaomi, Honor, Transsion, etc.

**Video Super-Resolution and Enhancement:** A systematic resolution and image quality enhancement solution for videos. It efficiently processes and produces high quality 4k and 8k videos on mainstream devices. Currently commercially adopted by several live podcast and gaming companies.

**Real-time Stereo Camera Solution:** A pioneering deep learning based real-time stereo solution for mobile devices. Various visual effects including Bokeh and Re-focus were realized based on this. Our solution was adopted by Oppo and Vivo due to its high performance and high efficiency.

## Journal Publications

1. L. Chen, J. Zhang, Z. Li, Y. Wei, F. Fang, **J.S. Ren**, J. Pan. "Deep Richardson–Lucy Deconvolution for Low-Light Image Deblurring." *International Journal of Computer Vision (IJCV)*, 2023
2. D. Gu, J. Li, L. Zhu, Y. Zhang, **J.S. Ren**. "Reliable Event Generation with Invertible Conditional Normalizing Flow." *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2023
3. J. Gu, J. Zhou, R. Chu, Y. Chen, J. Zhang, X. Cheng, S. Zhang, **J.S. Ren**. "Self-Supervised Intensity-Event Stereo Matching." *JIST-First Issue of the Journal of Imaging Science and Technology (Electronic Imaging)*, 2023
4. Z. Wang, **J.S. Ren**, J. Zhang, P. Luo. "Image Deblurring Aided by Low-Resolution Events." *Electronics*, 11(4), 631 (**Electronics**), 2022
5. J. Dong, J. Pan, **J.S. Ren**, L. Lin, J. Tang, M.H. Yang. "Learning Spatially Variant Linear Representation Models for Joint Filtering." *IEEE Transaction on Pattern Analysis and Machine Intelligence (TPAMI)*, 2021
6. J. Zhang, J. Pan, D. Wang, S. Zhou, X. Wei, F. Zhao, J. Liu, **J.S. Ren**. "Deep Dynamic Scene Deblurring from Optical Flow." *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 2021
7. W. Ren, J. Zhang, J. Pan, S. Liu, **J.S. Ren**, J. Du, X. Cao, M.H. Yang. "Deblurring Dynamic Scenes via Spatially Varying Recurrent Neural Networks." *IEEE Transaction on Pattern Analysis and Machine Intelligence (TPAMI)*, 2021
8. S. Lin, J. Zhang, J. Chen, Y. Wang, Y. Liu, **J.S. Ren**. "Cross-spectral Stereo Matching for Facial Disparity Estimation in The Dark." *Computer Vision and Image Understanding*, Volume 200, 103046 (**CVIU**), 2020
9. J. Pan, J. Dong, Y. Liu, J. Zhang, **J.S. Ren**, J. Tang, Y.W. Tai, M.H. Yang. "Physics-Based Generative Adversarial Models for Image Restoration and Beyond." *IEEE Transaction on Pattern Analysis and Machine Intelligence (TPAMI)*, 2020  
[\[webpage\]](#)
10. W. Wang, S. Liao, X. Li, **J.S. Ren**. "The Process of Information Propagation along a Traffic Stream through Inter-vehicle Communication." *IEEE Transaction on Intelligent Transportation Systems (TITS)*, 2014

## Book Chapters

11. **J.S. Ren**, D. Zou, Y. Zhang. "A Gentle Introduction to Image Understanding." *Introduction to Artificial Intelligence Vol. 3 (In Chinese)*, Editor-in-chief: Yukun Chen, The Commercial Press, ISBN: 9787100173704, 2019.

## Conference Publications

12. Y. Yang, J. Liang, B. Yu, Y. Chen, **J.S. Ren**, B. Shi. "Latency Correction for Event-guided Deblurring and Frame Interpolation." *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024
13. X. Wu, Y. Wu, J. Zhang, F. Zhang, **J.S. Ren**. "Joint Demosaicing and Denoising with Gradient Guidance in Quad Bayer CFA." *IEEE International Conference on Image Processing (ICIP)*, 2023
14. Z. Yu, Y. Zhang, D. Zou, X. Chen, **J.S. Ren**, S. Ren. "Range-nullspace Video Frame Interpolation with Focalized Motion Estimation." *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023
15. Z. Yu, Y. Zhang, X. Xiang, D. Zou, X. Chen, **J.S. Ren**. "Deep Bayesian Video Frame Interpolation." *European Conference on Computer Vision (ECCV)*, 2022
16. G. Qian, Y. Wang, J. Gu, C. Dong, W. Heidrich, B. Ghanem, **J.S. Ren**. "Rethinking Learning-based Demosaicing, Denoising, and Super-Resolution Pipeline." *International Conference on Computational Photography (ICCP)*, 2022

17. W. Shang, D. Ren, D. Zou, **J.S. Ren**, P. Luo, W. Zuo. "Bringing Events into Video Deblurring with Non-consecutively Blurry Frames." International Conference on Computer Vision (**ICCV**), 2021
18. Z. Yu, D. Liu, Y. Zhang, D. Zou, X. Chen, Y. Liu, **J.S. Ren**. "Training Weakly Supervised Video Frame Interpolation with Events." International Conference on Computer Vision (**ICCV**), 2021
19. X. Chen, Z. Zhang, **J.S. Ren**, L. Tian, Y. Qiao, C. Dong. "A New Journey from SDRTV to HDRTV." International Conference on Computer Vision (**ICCV**), 2021
20. L. Xu, Y. Zhang, Y. Liu, D. Wang, M. Zhou, **J.S. Ren**. "Low-dose CT Denoising Using a Structure-Preserving Kernel Prediction Network." IEEE International Conference on Image Processing (**ICIP**), 2021
21. L. Chen, J. Zhang, J. Pan, S. Lin, F. Fang, **J.S. Ren**. "Learning a Non-blind Deblurring Network for Night Blurry Images." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021
22. L. Chen, J. Zhang, S. Lin, F. Fang, **J.S. Ren**. "Blind Deblurring for Saturated Images." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021
23. L. Xu, J. Zhang, X. Cheng, F. Zhang, X. Wei, **J.S. Ren**. "Efficient Deep Image Denoising via Class Specific Convolution." Thirty-Fifth AAAI Conference on Artificial Intelligence (**AAAI**), 2021
24. S. Zhang, Z. Jiang, Y. Zhang, D. Zou, **J.S. Ren**, B. Zhou. "Learning to See in the Dark with Events." European Conference on Computer Vision (**ECCV**), 2020
25. S. Lin, J. Zhang, Z. Jiang, D. Zou, J. Pan, Y. Wang, J. Chen, **J.S. Ren**. "Learning Event-Driven Video Deblurring and Interpolation." European Conference on Computer Vision (**ECCV**), 2020
26. J. Gu, H. Cai, H. Chen, X. Ye, **J.S. Ren**, C. Dong. "PIPAL: a Large-Scale Image Quality Assessment Dataset for Perceptual Image Restoration." European Conference on Computer Vision (**ECCV**), 2020
27. J. Liu, J. He, Y. Qiao, **J.S. Ren**, H. Li. "Learning to Predict Context-adaptive Convolution for Semantic Segmentation." European Conference on Computer Vision (**ECCV**), 2020
28. J. Liu, J. He, J. Zhang, **J.S. Ren**, H. Li. "EfficientFCN: Holistically-guided Decoding for Semantic Segmentation." European Conference on Computer Vision (**ECCV**), 2020
29. Y. Liu, **J.S. Ren**, J. Zhang, J. Liu, M. Lin. "Visually Imbalanced Stereo Matching." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020
30. Z. Jiang, Y. Zhang, D. Zou, **J.S. Ren**, J. Lv, Y. Liu. "Learning Event-Based Motion Deblurring." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020
31. Z. Wang, J. Zhang, M. Lin, J. Wang, P. Luo, **J.S. Ren**. "Learning a Reinforced Agent for Flexible Exposure Bracketing Selection." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020
32. Y. Chen, **J.S. Ren**, X. Cheng, K. Qian, L. Wang, J. Gu. "Very Power Efficient Neural Time-of-Flight." IEEE Winter Conference on Applications of Computer Vision (**WACV**), 2020
33. Y. Liu, J. Zhang, Y. Ma, **J.S. Ren**. "Self-Guided Novel View Synthesis via Elastic Displacement Network." IEEE Winter Conference on Applications of Computer Vision (**WACV**), 2020
34. J. Pan, D. Sun, Y. Liu, **J.S. Ren**, M. Cheng, J. Yang, J. Tang. "Image Formation Model Guided Deep Image Super-Resolution." The 34th AAAI Conference on Artificial Intelligence (**AAAI**), 2020
35. S. Lin, J. Zhang, J. Pan, Y. Liu, Y. Wang, J. Chen, **J.S. Ren**. "Learning to Deblur Face Images via Sketch Synthesis." The 34th AAAI Conference on Artificial Intelligence (**AAAI**), 2020
36. S. Zhou, J. Zhang, J. Pan, H. Xie, W. Zuo, **J.S. Ren**. "Spatio-Temporal Filter Adaptive Network for Video Deblurring." International Conference on Computer Vision (**ICCV**), 2019

37. Z. Ke, D. Wang, Q. Yan, **J.S. Ren**, R. Lau. "Dual Student: Breaking the Limits of Teacher in Semi-supervised Learning." International Conference on Computer Vision (**ICCV**), 2019
38. Y. Liu, J. Pan, **J.S. Ren**, Z. Su. "Learning Deep Priors for Image Dehazing." International Conference on Computer Vision (**ICCV**), 2019
39. S. Zhou, J. Zhang, W. Zuo, H. Xie, J. Pan, **J.S. Ren**. "DAVANet: Stereo Deblurring with View Aggregation." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2019, **Oral**
40. Y. Zhang, D. Zou, **J.S. Ren**, Z. Jiang, X. Chen. "Structure-Preserving Stereoscopic View Synthesis with Multi-Scale Adversarial Correlation Matching." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2019
41. J. Pan, J. Dong, **J.S. Ren**, L. Lin, J. Tang, M.H. Yang. "Spatially Variant Linear Representation Models for Joint Filtering." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2019
42. R. Xiao, W. Sun, J. Pang, Q. Yan, **J.S. Ren**. "DSR: Direct Self-rectification for Uncalibrated Dual-lens Cameras." International Conference on 3D Vision (**3DV**), 2018
43. X. Guo, H. Li, S. Yi, **J.S. Ren**, X. Wang. "Learning Monocular Depth by Distilling Cross-domain Stereo Networks." European Conference on Computer Vision (**ECCV**), 2018
44. Y. Liu, **J.S. Ren**, J. Liu, J. Zhang, X. Chen. "Learning Selfie-Friendly Abstraction from Artistic Style Images." The 10th Asian Conference on Machine Learning (**ACML**), 2018
45. Z. Wang, T. Chen, **J.S. Ren**, W. Yu, H. Cheng, L. Lin. "Deep Reasoning with Knowledge Graph for Social Relationship Understanding." The 27th International Joint Conference on Artificial Intelligence (**IJCAI**), 2018
46. Y. Luo, **J.S. Ren**, M. Lin, J. Pang, W. Sun, H. Li, L. Lin. "Single View Stereo Matching." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018
47. J. Zhang, J. Pan, **J.S. Ren**, Y. Song, L. Bao, R. Lau, M.H. Yang. "Dynamic Scene Deblurring Using Spatially Variant Recurrent Neural Networks." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018
48. W. Yang, W. Ouyang, X. Wang, **J.S. Ren**, H. Li, X. Wang. "3D Human Pose Estimation in the Wild by Adversarial Learning." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018
49. Y. Luo, **J.S. Ren**, Z. Wang, W. Sun, J. Pan, J. Liu, J. Pang, L. Lin. "LSTM Pose Machines." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018
50. J. Pang, W. Sun, C. Yang, **J.S. Ren**, R. Xiao, J. Zeng, L. Lin. "Zoom and Learn: Generalizing Deep Stereo Matching to Novel Domains." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018
51. J. Pan, S. Liu, D. Sun, J. Zhang, Y. Liu, **J.S. Ren**, Z. Li, J. Tang, H. Lu, Y.W. Tai, M.H. Yang. "Learning Dual Convolutional Neural Networks for Low-Level Vision." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018
52. **J.S. Ren**, X. Chen, J. Liu, W. Sun, J. Pang, Q. Yan, Y.W. Tai, L. Xu. "Accurate Single Stage Detector Using Recurrent Rolling Convolution." IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2017
53. **J.S. Ren**, Y. Hu, Y.W. Tai, C. Wang, L. Xu, W. Sun, Q. Yan. "Look, Listen and Learn - A Multimodal LSTM for Speaker Identification." The 30th AAAI Conference on Artificial Intelligence (**AAAI**), 2016
54. **J.S. Ren**, L. Xu, Q. Yan, W. Sun. "Shepard Convolutional Neural Networks." Advances in Neural Information Processing Systems (**NeurIPS**), 2015
55. L. Xu, **J.S. Ren**, Q. Yan, R. Liao, J. Jia. "Deep Edge-Aware Filters." The 32nd International Conference on Machine Learning (**ICML**), 2015

56. Y. Hu, **J.S. Ren**, J. Dai, C. Yuan, L. Xu, W. Wang. "Deep Multimodal Speaker Naming." The 23rd ACM International Conference on Multimedia (**ACMMM**), 2015
57. **J.S. Ren**, L. Xu. "On Vectorization of Deep Convolutional Neural Networks for Vision Tasks." The 29th AAAI Conference on Artificial Intelligence (**AAAI**), 2015
58. L. Liu, **J.S. Ren**, L. Song, K. Mirkovski. "A Mixed-Methods Approach to Disclose the Influence of Twofold Information Usefulness on Sales." 48th Annual Hawaii International Conference on System Sciences (**HICSS-48**), 2015
59. L. Xu, **J.S. Ren**, C. Liu, J. Jia. "Deep Convolutional Neural Network for Image Deconvolution." Advances in Neural Information Processing Systems (**NeurIPS**), 2014
60. **J.S. Ren**, W. Wang, J. Wang, S. Liao. "Exploring The Contribution of Unlabeled Data in Financial Sentiment Analysis." The 27th AAAI Conference on Artificial Intelligence (**AAAI**), 2013
61. **J.S. Ren**, H. Ge, X. Wu, G. Wang, W. Wang, S. Liao. "Effective Sentiment Analysis of Corporate Financial Reports." The 34th International Conference on Information Systems (**ICIS**), 2013
62. J. Wang, **J.S. Ren**, W. Wang, X. Li, Q. Li, S. Liao. "When Multivariate Forecasting Meets Unsupervised Feature Learning - Towards a Novel Anomaly Detection Framework for Decision Support." The 33rd International Conference on Information Systems (**ICIS**), 2012
63. **J.S. Ren**, W. Wang, J. Wang, S. Liao. "An Unsupervised Feature Learning Approach to Improve Automatic Incident Detection." The 15th IEEE International Conference on Intelligent Transportation Systems (**ITSC**), 2012
64. J. Wang, **J.S. Ren**, W. Wang, Z. Hua, K. Xu, S. Liao. "Optimal Refactoring Policy for Agile Information Systems Maintenance: A Control Theoretic Approach." The 32nd International Conference on Information Systems (**ICIS**), 2011

## Workshop Papers

65. L. Wang, Y. Chen, Z. Guo, K. Qian, M. Lin, H. Li, **J.S. Ren**. "Generalizing Monocular 3D Human Pose Estimation in the Wild." International Conference on Computer Vision - Workshop on Geometry Meets Deep Learning (**ICCVW**), 2019
66. J. Pang, W. Sun, **J.S. Ren**, C. Yang, Q. Yan. "Cascade Residual Learning: A Two-stage Convolutional Neural Network for Stereo Matching." International Conference on Computer Vision - Workshop on Geometry Meets Deep Learning (**ICCVW**), 2017

## Talks

### **Re-inventing Intelligent Applications with Generative A.I. - From Cloud to Edge**

Invited Talk at CSC IT Forum, City University of Hong Kong, Hong Kong, Mar. 22 2024

[https://www.cityu.edu.hk/csc/deptweb/education/csc\\_forum\\_announce.htm#20240322](https://www.cityu.edu.hk/csc/deptweb/education/csc_forum_announce.htm#20240322)

### **AI for A Better Tomorrow**

Guest Lecture at Department of Finance, Southern University of Science and Technology, Shenzhen, Apr. 2022

### **Very Power Efficient Neural Time-of-Flight**

Invited Talk at EE Department, City University of Hong Kong, Hong Kong, Mar. 2020

### **Computer Vision, Visualization and Deep Learning**

Guest Lecture at Engineering School, Chinese University of Hong Kong, Hong Kong, Mar. 2019

Guest Lecture at Business School, Swinburne University of Technology, Melbourne, Apr. 2019

### **The A.I. You Can See: A SenseTime Journey**

Guest Lecture at EE Department, City University of Hong Kong, Hong Kong, Nov., 2018

Guest Lecture at Business School, Hong Kong Baptist University, Hong Kong, Sep., 2018

## Professional Services

**Conference reviewer:** CVPR'24, CVPR'23, CVPR'22, CVPR'21, CVPR'20, CVPR'19, CVPR'18, ICCV'21, ICCV'19, ECCV'22, ECCV'20, ECCV'18, NeurIPS' 23, NeurIPS'22, NeurIPS'20, NeurIPS'19, ICML'23, ICML'22, ICML'21, ICML'20, PRCV'19, ACCV'18

**Journal reviewer:** IEEE Trans. on PAMI, IEEE Trans. on Computational Imaging, Information Sciences

## Interns Advised

<b>Ringo Chu</b> (Next position: Ph.D. student at University of Oxford)	2021-2023
<b>Jinan Zhou</b> (Next position: Master student at Carnegie Mellon University)	2020-2021
<b>Lu Xu</b> (Next position: Master student at Carnegie Mellon University)	2019-2020
<b>Jinjin Gu</b> (Next position: Ph.D. student at University of Sydney)	2018-2019
<b>Daoye Wang</b> (Next position: Master student at ETH Zurich)	2018-2019
<b>Guocheng Qian</b> (Next position: Master student at King Abdullah UST)	2018-2019
<b>Cheng-Tsung Liu</b> (Next position: Master student at University of Southern California)	2018
<b>Zhengyang Xia</b> (Next position: Master student at Carnegie Mellon University)	2018
<b>Danlei Zhu</b> (Next position: Ph.D. student at Carnegie Mellon University)	2018
<b>Ziqi Chen</b> (Next position: Master student at Carnegie Mellon University)	2018
<b>Fangjun Zhang</b> (Next position: Master student at New York University)	2017-2018
<b>Yicun Liu</b> (Next position: Master student at Columbia University)	2017-2018
<b>Yue Luo</b> (Next position: Master student at Columbia University)	2017-2018

## References

### **Stephen Shaoyi LIAO**

Professor of Information Systems at City University of Hong Kong

- Address: 6-271, Lau Ming Wai Academic Building, Tat Chee Avenue, Kowloon, Hong Kong
- Email: issliao@cityu.edu.hk

### **Chao DONG**

Professor, Director of MMLab@SIAT at Shenzhen Institutes of Advanced Technology (SIAT) of the Chinese Academy of Sciences (CAS)

- Address: 1068 Xueyuan Avenue, Shenzhen University Town, Shenzhen, P.R.China
- Email: chao.dong@siat.ac.cn

### **Hiroataka SHINOZAKI**

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### **Li XU**

CEO of SenseTime Group

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