

# Jifang Xing

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## Profile

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Working on computer vision-related fields not only in research but also in engineering to help computer vision to simplify and serve human life better.

## Areas of Expertise

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- **Image Signal Processor:** ISP Algorithms & IP Core Design, Calibration & Tuning Algorithm, Simulation SW Architect
- **Image Quality:** 3A+ (AE/AWB/AF/TM/LSE/DVS/...) Algorithms & SW Design, HDR, Utral Low Light
- **3D vision:** Multi-CAM Calibration Algorithm, Depth Camera, 360 Around Views, 3D reconstruction

## Professional Experience

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- Intel Corporation** *Computer Vision Algorithm Engineer* **Beijing, CN** 04/2020 - present
- Leading research & develop works for ISP algorithm & IP core design of an ISP Unit
  - Optimizing & refactoring image quality control algorithm libraries used for devices with camera & Intel CPU inside
  - Design & develop calibration algorithms which is an important feature for next-generation Intel depth camera
  - Design & develop 360 around view and 3D reconstruction PoCs to help Intel win several top-tier automotive companies
- NUS** *Research & Teaching Assistant* **Queenstown, SG** 06/2019 - 01/2020
- 3 publication works for object detection/segmentation with parsing sampling problem for deep learning and deep learning assistant numerical computing acceleration, Tutorial class for NUS CS3243 Introduction to Artificial Intelligence
- Intel Corporation** *Research Intern* **Shanghai, CN** 07/2018 - 12/2018
- Research on instance segmentation and deep learning acceleration

## Education

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- Msc, Computer Science, GPA-4.3/5.0* **University of Singapore, Queenstown, SG** 01/2019-01/2020
- Phd Candidate (quit), Information System* **Shanghai Jiao Tong University, Shanghai, CN** 07/2016-12/2018
- Bsc, Electric Engineering, GPA-3.7/4.0(top 5%)* **Beihang University, Beijing, CN** 09/2012-06/2016

## Publications

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- Building Extraction from Google Earth Images, **Jifang Xing**, Zhang Ruixi, Remmy Zen, Dewa Made Sri Arsa, Ismail Khalil, Stéphane Bressan. *Proceedings of ACM International Conference on Information Integration and Web-based Applications & Services*. **iiWAS 2019**.
- Microbiological Water Quality Test Results Extraction from Mobile Photographs, **Jifang Xing**, Zhang Ruixi, Remmy Zen, Ngurah Agus Sanjaya ER, Laure Sioné, Ismail Khalil, Stéphane Bressan. *Proceedings of ACM International Conference on Information Integration and Web-based Applications & Services*. **iiWAS 2019**.
- **Temporal-spatial request aggregation for cache-enabled wireless multicasting networks**, **Jifang Xing**, Ying Cui, Vincent Lau., *Proceedings of IEEE Global Communications Conference*. **Globecom 2017**.
- **Surrogate Modelling and Simulation with Neural Networks**, Zhang Ruixi, Remmy Zen, **Jifang Xing**, Dewa Made Sri Arsa, Abhishek Saha, Stéphane Bressan. *Proceedings of 24th Pacific Asia Knowledge Discovery and Data Mining*. **PAKDD 2020**
- **Trusted content delivery in large-scale SIC-enabled wireless networks**, Ying Cui, Dongdong Jiang, **Jifang Xing**, Jemin Lee. *Proceedings of IEEE 18th International Workshop on Signal Processing Advances in Wireless Communications*. **SPAWC 2017**.