

DAWEI SUN

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RESEARCH INTEREST

Formal Verification; Machine Learning; Control Theory; Cyber-Physical Systems; Robotics.

EDUCATION

Tsinghua University

B.E. in Automation

Aug. 2014 - Jul. 2018

University of Illinois at Urbana-Champaign

Ph.D. in Computer Engineering

Aug. 2019 - Present

Advisor: Sayan Mitra

HONORS AND AWARDS

2019 Won the first place at the CVPR'19 Image Matching Workshop challenge [\[link\]](#)

2018 Intel Patent Recognition Award

2018 Excellent Undergraduate Thesis, Tsinghua University

2016 Academic Excellence Scholarship, Tsinghua University

2015 1st Prize in Chinese College Student Physics Competition, China

PUBLICATIONS

JOURNAL

7. [TVCG'19] Jiahui Zhang, Zhencheng Fan, Dawei Sun, and Hongen Liao. "Unified Mathematical Model for Multilayer-Multiframe Compressive Light Field Displays Using LCDs." *In IEEE Transactions on Visualization and Computer Graphics*, 2019. [\[pdf\]](#)
6. [COMPUTER'17] Jie Tang, Dawei Sun, Shaoshan Liu, and Jean-Luc Gaudiot. "Enabling Deep Learning on IoT Devices." *In Computer*, 2017. [\[pdf\]](#)

CONFERENCE

5. [ICCV'19] Jiahui Zhang*, Dawei Sun*, Zixin Luo, Anbang Yao, Lei Zhou, Tianwei Shen, Yurong Chen, Long Quan, and Hongen Liao. "Learning Two-View Correspondences and Geometry Using Order-Aware Network." *International conference in computer vision*, 2019. [\[pdf\]](#) (* equal contribution)
4. [CVPR'19] Dawei Sun, Anbang Yao, Aojun Zhou, and Hao Zhao. "Deeply-Supervised Knowledge Synergy." *IEEE conference on computer vision and pattern recognition*, 2019. [\[pdf\]](#)
3. [SUNW'19] Kuan Wang, Dawei Sun, Xiaojian Ma, Zhaoyuan Gu, and Hao Zhao. "Lessons Learned From a Lightweight Autonomous Vehicle Implementation." *CVPR Scene Understanding Workshop*, 2017. [\[pdf\]](#)[\[video\]](#)

In Submission

2. [TACAS'20] Negin Musavi, Dawei Sun, Sayan Mitra, Geir Dullerud, and Sanjay Shakkottai. "Statistical Model Checking with Optimistic Optimization." *Submitted to the international conference on Tools and Algorithms for the Construction and Analysis of Systems*, 2020. [\[pdf\]](#)[\[code\]](#)

1. [CVPR'20] Dawei Sun and Anbang Yao. "Knowledge Transfer via Deep Cross-layer Mutual-distillation." *IEEE conference on computer vision and pattern recognition*, 2020.

INDUSTRIAL EXPERIENCES

Intel Labs

Research Intern

Apr. 2017 - Aug. 2019

Advised by Dr. Anbang Yao

- Project: Computer vision and geometry.

PerceptIn Inc.

Research Intern

Nov. 2016 - Apr. 2017

Advised by Dr. Shaoshan Liu

- Project: Deep learning on IoT devices.

Trunk.Tech

Research Intern

Jan. 2015 - Jul. 2016

Advised by Dr. Tianlei Zhang

- Full-stack engineering for self-driving cars.
- We translated a book about ROS "Programming Robots with ROS" into Chinese. ISBN: 9787111585299.