

JINMING SU (苏金明)

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👤 ABOUT

I am currently in my third year of master's degree in computer science at Beihang University. I am broadly interested in solving real-world visual understanding problems with optimization/learning-based algorithms. Recently, I am interested in developing learning and optimization frameworks for **visual saliency analysis** (especially salient object detection) and **urban scene parsing** (especially semantic segmentation).

🎓 EDUCATION

Beihang University (BUAA), Beijing, China Sept. 2017 – Present

Master student in Computer Science and Technology, expected in Jan. 2020, ranked 27/308, top 10%

– State Key Laboratory of Virtual Reality Technology and Systems, SCSE

– Supervisor: Jia Li

Northeastern University (NEU), Shenyang, China 2013 – 2017

B.S. in Computer Science and Technology. GPA: 4.1/5.0, ranked 10/258, top 5%

– Thesis: Mobile Terminal Based Outdoor Scene Semantic Segmentation Approach and System

– Recommended for admission to Beihang University without exams

👥 EXPERIENCE

Peng Cheng Laboratory (PCL), Shenzhen, China Dec. 2018 – Mar. 2019

Assistant Researcher

Engaged in the basic research work of computer vision, mainly focused on salient object detection. During this period, a remarkable salient object detection algorithm focusing on errors was proposed, and its performance obviously exceeded the existing methods.

📖 SELECTED WORKS

1. **Jinming Su**, Jia Li, Yu Zhang, Changqun Xia and Yonghong Tian. Selectivity or Invariance: Boundary-aware Salient Object Detection. *IEEE International Conference on Computer Vision (ICCV)*, 2019.
2. Jia Li, **Jinming Su**, Changqun Xia, Yonghong Tian. Distortion-adaptive Salient Object Detection in 360° Omnidirectional Images. *IEEE Journal of Selected Topics in Signal Processing (J-STSP)*, 2020.
3. **Jinming Su**, Jia Li, Changqun Xia and Yonghong Tian. Stay Focused While Driving: Exploring Task-aware Salient Object Detection via Knowledge Transfer. (Under review by CVPR 2020)
4. Jia Li, **Jinming Su**, Changqun Xia, Yonghong Tian. Salient Object Detection with Purificatory Mechanism and Structural Similarity Loss. (Under review)
5. Changqun Xia, Jia Li, **Jinming Su** and Yonghong Tian. Relating Background to Foreground: Exploring Reciprocal Attention for Salient Object Detection by Cooperative Learning. (Under review by CVPR 2020)
6. Changqun Xia, Jia Li, **Jinming Su** and Ali Borji. Learning a saliency evaluation metric using crowdsourced perceptual judgments. *arXiv preprint arXiv:1806.10257*, 2018.
7. 李甲、**苏金明**、夏长群、赵沁平。一种图像显著对象分割方法及装置。申请日：2019年08月09日，申请号：201910732318.1. (In Application)

8. 李甲、苏金明、夏长群、赵沁平。图像前景物体分割方法及装置。申请日：2019 年 05 月 16 日，申请号：201910407975.9. (In Application)
9. 李甲、苏金明、夏长群、赵一凡、赵沁平。一种图像前景物体分割方法。申请日：2018 年 12 月 24 日，申请号：201811578893.2. (In Application)
10. 李甲、苏金明、夏长群、赵沁平。图像显著性预测结果的评价方法和装置。申请日：2018 年 05 月 14 日，申请号：201810457947.3. (In Application)
11. 李甲、夏长群、苏金明、赵沁平。基于前背景相互关系的图像显著对象分割方法及装置。申请日：2019 年 05 月 21 日，申请号：201910423491.3. (In Application)

⚙️ SKILLS

- Specialize in deep learning for computer vision, especially salient object detection and semantic image segmentation
- passed CET6, good at academic writing and presentation
- Familiar with deep learning libraries Caffe/Pytorch
- Familiar with C++/Python/Matlab, Linux
- Familiar with data structure and algorithm

★ PROJECTS & ACTIVITIES

- Reviewer of IEEE MIPR 2019/2020, and also reviewed more than 10 top-level conference or journal papers (including CVPR 2019, ICCV 2019, ACM MM 2018 and so on) with the help of supervisor
- Teaching assistant for *Machine Learning and Its Engineering Foundation* at BUAA, Spring 2018
- Designed and developed the official website of my laboratory CVTEAM <http://cvteam.net>
- Participated in the design and development of program online judge platform for NEU <https://oj.neu.edu.cn>
- Member of the ACM-ICPC team of NEU
- Github: <https://github.com/Jinming-Su>
- Blog: <https://blog.csdn.net/u014451076>
- Homepage: <http://sjming.net>

🏆 SELECTED HONOURS

- National Scholarship, 2019
- Huawei Scholarship, 2019
- Outstanding Graduate Student of BUAA, 2019
- Merit Student of BUAA, 2018/2019
- Outstanding Undergraduate Thesis of NEU, 2017
- National Encouragement Scholarship, 2014-2016
- The Zhou Kun Scholarship, four times, 2013-2016
- Excellent Student of NEU, 2014/2015
- Second Prize of the National English Competition for College Students, 2015
- First Prize of the Liaoning Province ACM-ICPC Contest, 2014/2015
- Second Prize of the China Undergraduate Mathematical Contest in Modeling, 2014
- Third prize of the Northeast Region ACM-ICPC Contest, 2014
- Outstanding Individual of Scientific and Technological Innovation of Northeastern University, 2014

♥️ MORE PERSONAL INFORMATION

- Date of birth: Jan. 25, 1995

- Native place: Xuchang City, Henan Province
- Political appearance: Member of the Communist Party of China (CPC)
- I am a good partner, able to adapt to different circumstances quickly, responsible, optimistic and easy to communicate. At the same time, I have certain academic and engineering ability, and am willing to solve challenging problems.