

CVPR 2019 Notes

Long Beach, CA, USA

Shuai Chen
shuaic92@gmail.com

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This documents contains notes I took during CVPR 2019 conference in Long Beach, CA, USA. My motivation of making this document came from the inspiration of David Abel¹. Please feel free to distribute it as well as correcting my typos and mistakes. My email is shuaic92@gmail.com.

1 Conference Highlights

This was my first time took part in such an awesome academic conference. Most of my time spent in Deep Learning & Computational Photography related topics. However, I would also update some topics that I found interesting.

1. Around 10,000 people attend this year's conference. About 1300 papers were accepted in CVPR 2019. Reports saying number of attendees projected in 2035 will be over 1 million :). See Figure 1.

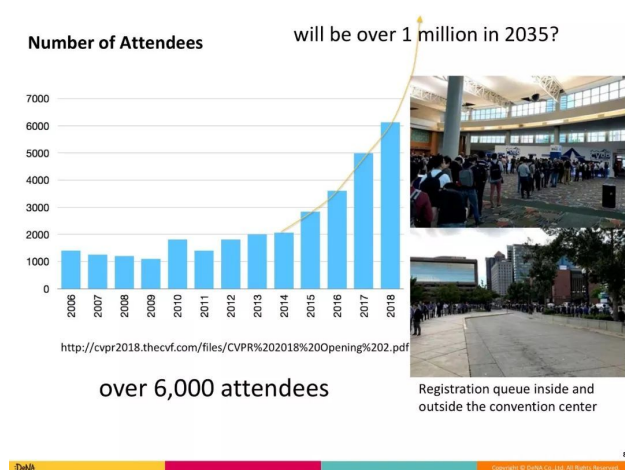


Figure 1: projection of attendees to reach 1 million by 2035

2. Comparing to last year, the number of papers accepted in CVPR 2019 increased about 30%. However, due to the fact that the number of papers submitted this year has increased 56.2%, thus the paper acceptance rate reduced 4% this year. See Figure 2.

¹<http://david-abel.github.io>

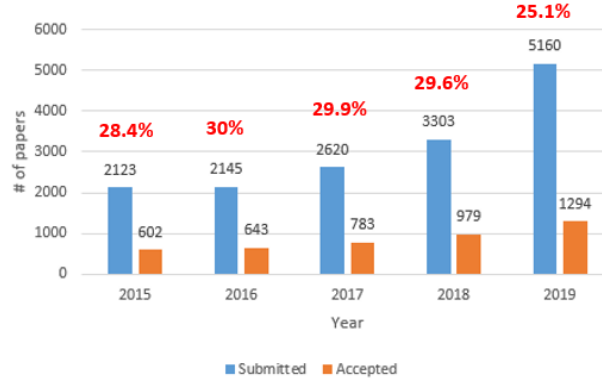


Figure 2: papers acceptance rate is 4% lower in CVPR 2019

3. Some of hot keywords in CVPR 2019 submission: Image, detection, 3d, object, video, segmentation, adversarial, recognition, visual. See Figure 3
4. More Meta-learning, One-shot/Few-shots learning, Graph Neural Networks papers started to emerge this year.
5. It's great to see a lot of fast pace improvement towards real-life low level image processing field.
6. Network Architecture Search was also another very popular topic. Great to see a burst of diverse solutions in this field.
7. Generative Adversarial Network was a hot topic again. Exciting progress were made again this year.

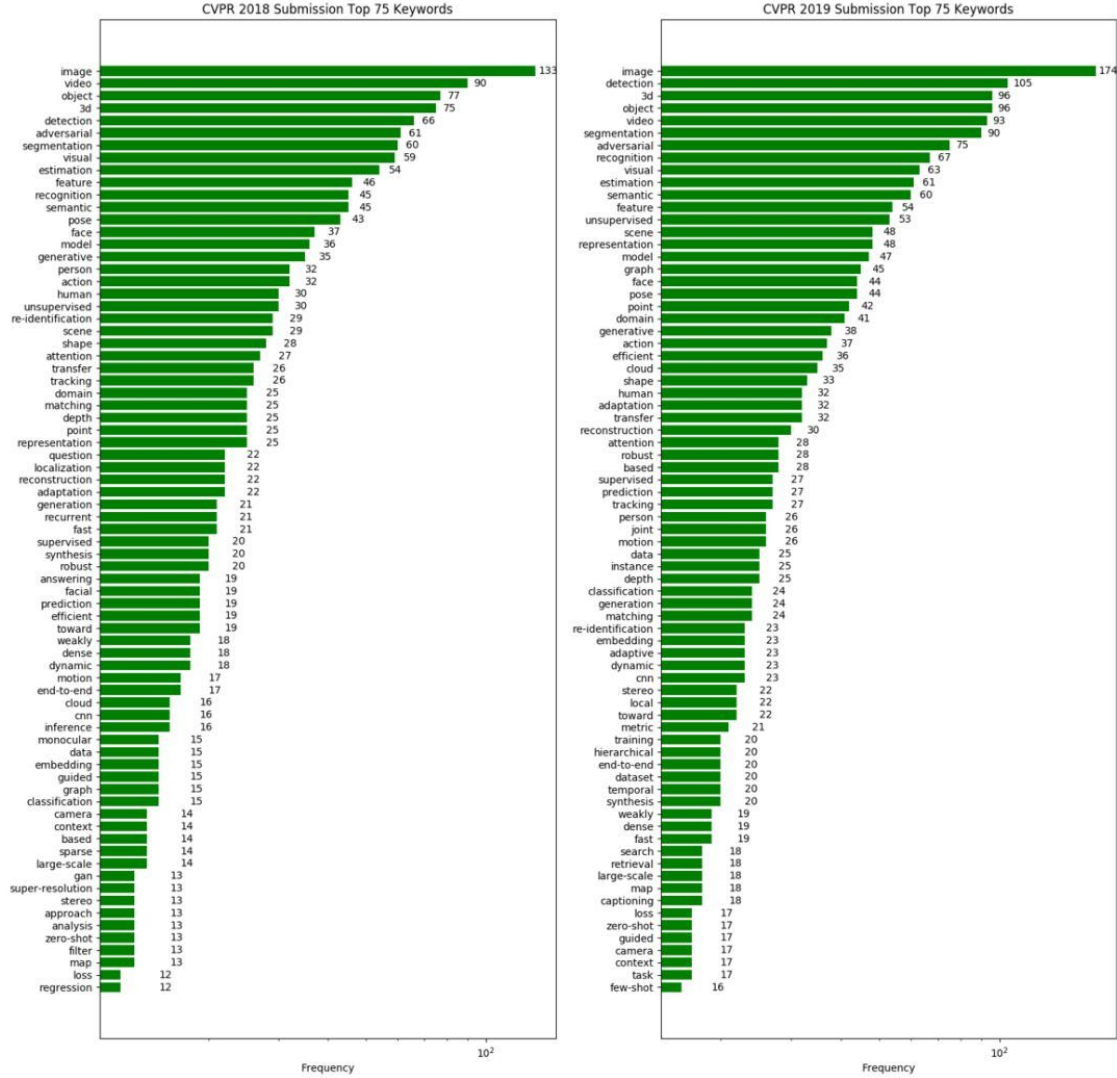


Figure 3: hot submission keywords CVPR 2018 vs. CVPR 2019

2 Sunday June 16th: Tutorials & Workshops

Caught up part of Deep-Vision workshop. I was a little bit confused on overwhelming tutorials and workshops. I also spent a lot of time trying to find the correct room. So first day's note was not really good. Please feel free to contact me and add some notes.

2.1 Workshop: Deep-Vision