

Topic: YOLO: Real-Time Object Detection

Paper:

- [https://www.cvfoundation.org/openaccess/content\\_cvpr\\_2016/papers/Redmon\\_Yo\\_u\\_Only\\_Look\\_CVPR\\_2016\\_paper.pdf](https://www.cvfoundation.org/openaccess/content_cvpr_2016/papers/Redmon_Yo_u_Only_Look_CVPR_2016_paper.pdf)
- <https://arxiv.org/pdf/1612.08242.pdf>

Source code:

- <https://pjreddie.com/darknet/yolo/>
- [https://github.com/gliese581gg/YOLO\\_tensorflow](https://github.com/gliese581gg/YOLO_tensorflow)
- <https://github.com/nilboy/tensorflow-yolo>

Topic: GAN: Generative Adversarial Networks

Paper:

- <http://papers.nips.cc/paper/5423-generative-adversarial-nets.pdf>
- <https://pdfs.semanticscholar.org/6ae9/9cf0c8b0848d210798b2589a0b9a028712c1.pdf>
- <https://arxiv.org/pdf/1511.06434.pdf>

Source code:

- <https://github.com/carpedm20/DCGAN-tensorflow>

Topic: A Neural Algorithm of Artistic Style

Paper:

- <https://arxiv.org/pdf/1508.06576.pdf>

Source code:

- <https://github.com/anishathalye/neural-style>

Topic: Inceptionism: Going Deeper into Neural Networks

Paper:

- <https://research.googleblog.com/2015/06/inceptionism-going-deeper-into-neural.html>
- <https://deepdreamgenerator.com/>

Source code:

- <https://github.com/google/deepdream>

Topic: Chat bot

Paper:

- <https://arxiv.org/pdf/1406.1078.pdf>
- <https://www.tensorflow.org/tutorials/seq2seq>
- <https://arxiv.org/abs/1506.05869>

Source code:

- <https://github.com/tensorflow/models/tree/master/tutorials/rnn/translate>
- <https://github.com/Conchylicultor/DeepQA>

Topic: Image captioning

Paper:

- <https://arxiv.org/pdf/1609.06647.pdf>
- <https://arxiv.org/pdf/1502.03044.pdf>

Source code:

- <https://github.com/aaxwaz/Image-Captioning-Model-in-TensorFlow>
- <https://github.com/yunjey/show-attend-and-tell>

Topic: Face Recognition

Paper:

- [https://kpzhang93.github.io/MTCNN\\_face\\_detection\\_alignment/paper/spl.pdf](https://kpzhang93.github.io/MTCNN_face_detection_alignment/paper/spl.pdf)

Source code:

- [https://github.com/kpzhang93/MTCNN\\_face\\_detection\\_alignment](https://github.com/kpzhang93/MTCNN_face_detection_alignment)
- [https://github.com/shanren7/real\\_time\\_face\\_recognition](https://github.com/shanren7/real_time_face_recognition)

Topic: Human Pose Estimation

Paper:

- <https://arxiv.org/pdf/1612.01465.pdf>
- <https://arxiv.org/pdf/1605.03170.pdf>

Source code:

- <https://github.com/eldar/pose-tensorflow>

Topic: Deep Q Learning Pong game

Paper:

- <https://www.cs.toronto.edu/~vmnih/docs/dqn.pdf>

Source code:

- <http://www.danielslater.net/2016/03/deep-q-learning-pong-with-tensorflow.html>

Topic: Generative Handwriting

Paper:

- <https://arxiv.org/pdf/1308.0850.pdf>

Source code:

- <https://github.com/hardmaru/write-rnn-tensorflow>

Questions you might be interested in...

1. List of Conferences

[https://jackietseng.github.io/conference\\_call\\_for\\_paper/2018-2019-conferences.html](https://jackietseng.github.io/conference_call_for_paper/2018-2019-conferences.html)

2. Project selection

- Selected topics from the professor.
- Your own topic.
  - o CVPR 2018 accepted papers: <http://openaccess.thecvf.com/CVPR2018.py>

- o AAAI 2018 accepted papers:  
[https://aaai.org/Conferences/AAAI-18/wp-content/uploads/2017/12/AAAI-18-Accepted-Paper-List.Web\\_.pdf](https://aaai.org/Conferences/AAAI-18/wp-content/uploads/2017/12/AAAI-18-Accepted-Paper-List.Web_.pdf)
- o NIPS 2017 accepted papers:  
<https://nips.cc/Conferences/2017/Schedule?type=Poster>