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## PAPER LIST

### March 15: Modern Image Filtering

#### [Semantic Filtering](#)

Qingxiong Yang. CVPR 2016.

### March 22: Sparse Coding

#### [Convolutional Dictionary Learning via Local Processing](#)

Vardan Papyan, Yaniv Romano, Jeremias Sulam, Michael Elad. ICCV 2017.

<http://vardanp.cswp.cs.technion.ac.il/sample-page/>

### March 29: Graphical Models

#### [PatchCut: Data-Driven Object Segmentation via Local Shape Transfer](#)

Jimei Yang, Brian Price, Scott Cohen, Zhe Lin, Ming-Hsuan Yang. CVPR 2015.

### April 12: Convolutional Neural Networks

#### [Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network](#)

Christian Ledig, Lucas Theis, Ferenc Huszar, Jose Caballero, Andrew Cunningham, Alejandro Acosta, Andrew Aitken, Alykhan Tejani, Johannes Totz, Zehan Wang, Wenzhe Shi. CVPR 2017.

#### [Let there be Color!: Joint End-to-end Learning of Global and Local Image Priors for Automatic Image Colorization with Simultaneous Classification](#)

Satoshi Iizuka, Edgar Simo-Serra, Hiroshi Ishikawa. SIGGRAPH 2016.

<http://hi.cs.waseda.ac.jp/~iizuka/projects/colorization/en/>

### April 19: Semantic/Instance Segmentation

#### [Mask R-CNN](#)

Kaiming He, Georgia Gkioxari, Piotr Dollr, Ross Girshick. ICCV 2017.

<https://github.com/facebookresearch/Detectron>

### May 3: Image Deblurring

#### [Learning Discriminative Data Fitting Functions for Blind Image Deblurring](#)

Jinshan Pan, Jiangxin Dong, Yu-Wing Tai, Zhixun Su, and Ming-Hsuan Yang. ICCV 2017.

### May 10: Visual Saliency

#### [Understanding Low- and High-Level Contributions to Fixation Prediction](#)

Matthias Kummerer, Thomas S. A. Wallis, Leon A. Gatys, Matthias Bethge. ICCV 2017.

<https://deepgaze.bethgelab.org/>