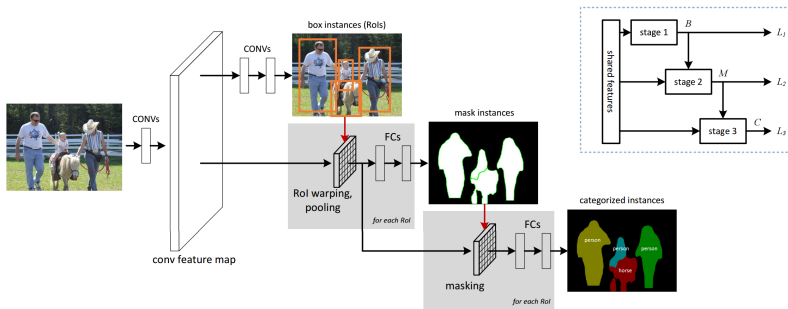


# Instance-aware Semantic Segmentation via Multi-task Network Cascades

Jifeng Dai, Kaiming He and Jian Sun (CVPR 2016)



- ▶ Limitations of existing methods for instance segmentation using CNNs
  - ▶ Slow at inference time because they require mask proposal methods
  - ▶ Don't take advantage of deep features and large amount of training data
- ▶ End-to-end training of Multi-task Network Cascades for 3 tasks of differentiating instances, estimating masks & categorizing objects
- ▶ Two orders of magnitude faster than previous systems
- ▶ State-of-the-art on PASCAL VOC & MS COCO 2015