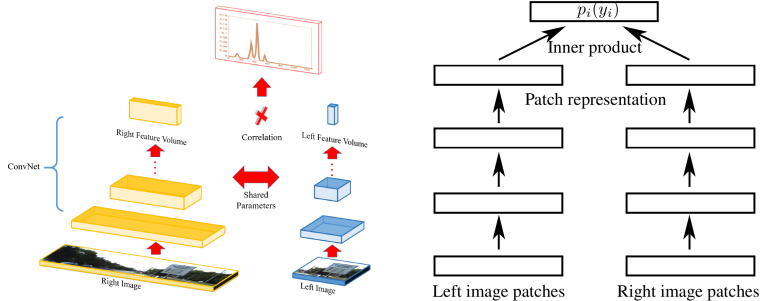


Efficient Deep Learning for Stereo Matching

W. Luo, A. G. Schwing, R. Urtasun (CVPR 2016)



- ▶ Siamese networks for stereo perform well but are slow
- ▶ They propose a very fast matching network
 - ▶ Product layer between the siamese networks instead of concatenation
 - ▶ Consider multi-class classification problem with the possible disparities as classes
 - ▶ Calibrated scores allow to outperform existing approaches
 - ▶ Consider several MRFs for smoothing the matching results (cost aggregation, semi global block matching and slanted plane)
- ▶ Evaluation on KITTI 2012 and 2015 benchmarks