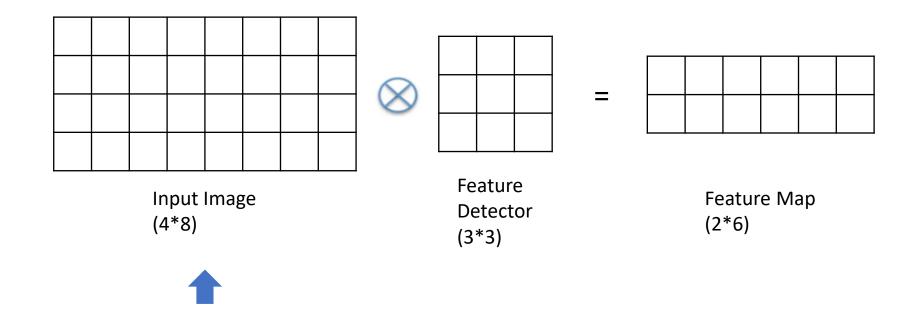
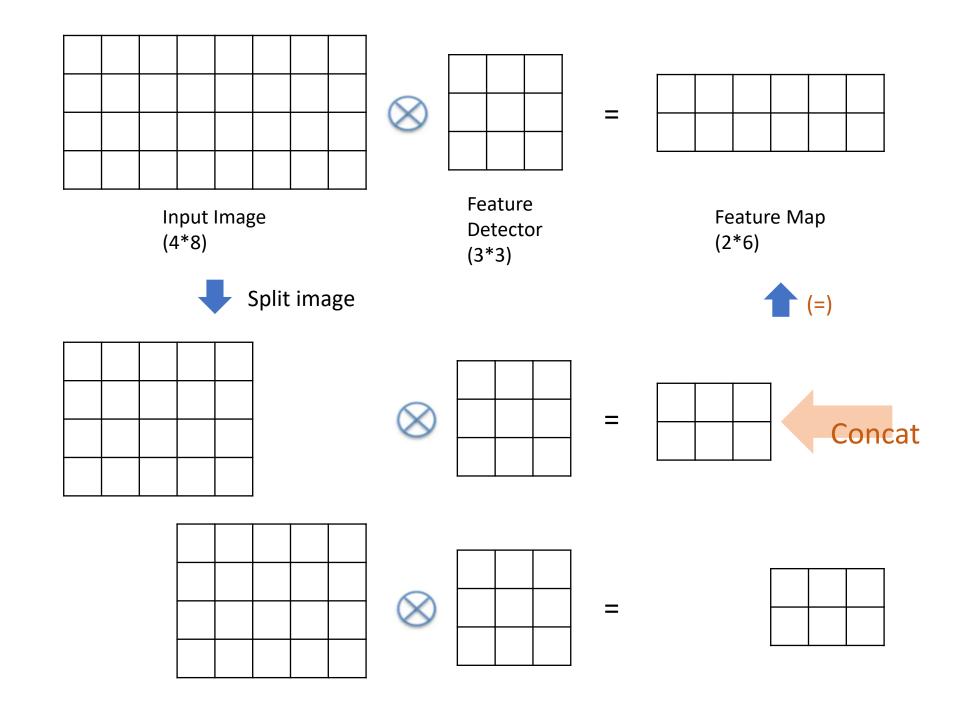
Research of Al accelerator

Con2d Transformation

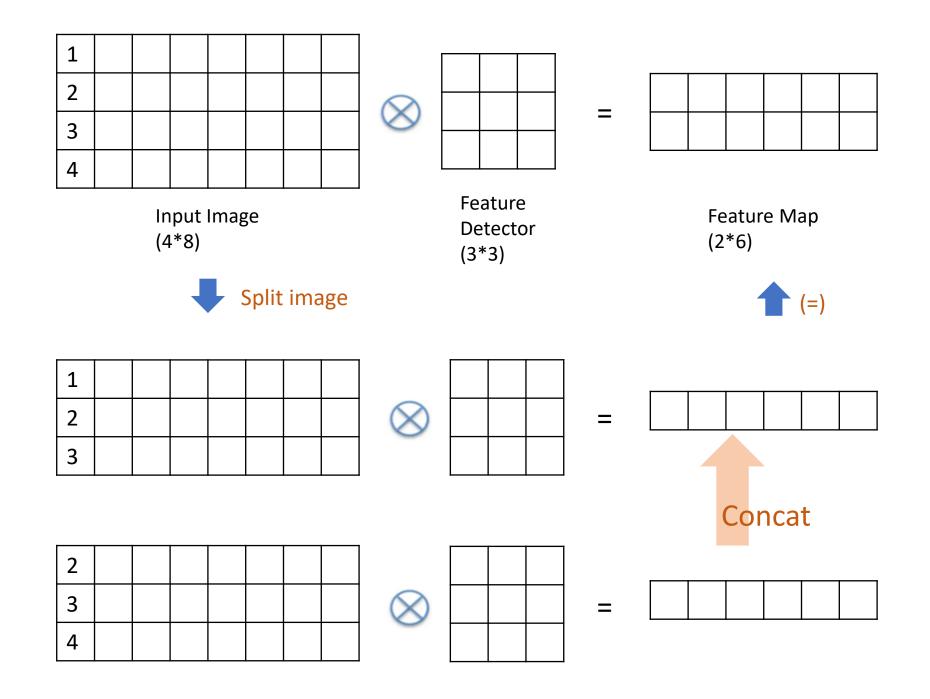


To split input image to fit hardware constraints

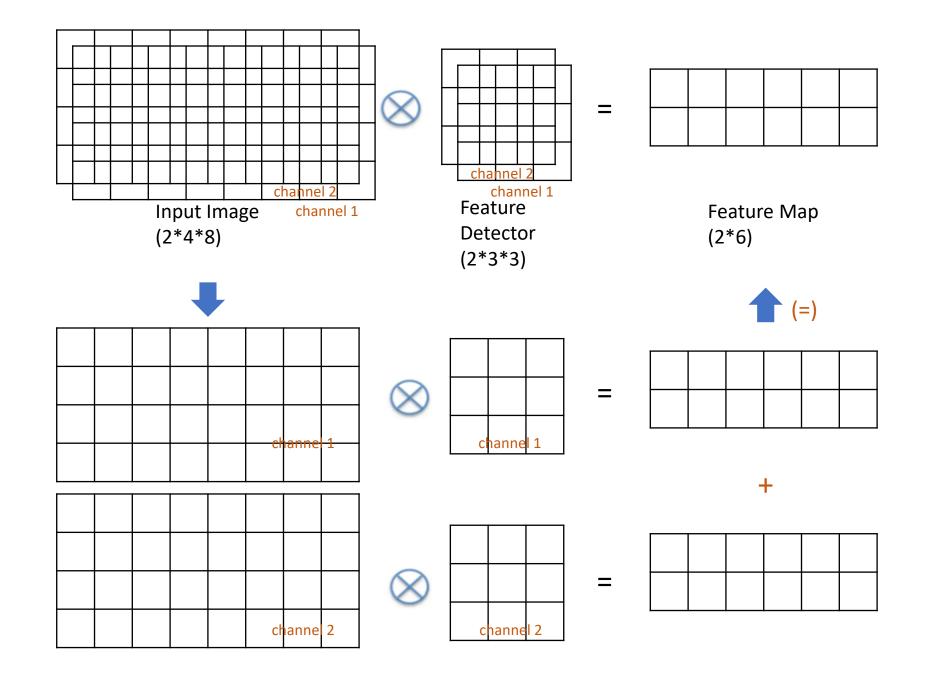
1. Along input width dimension



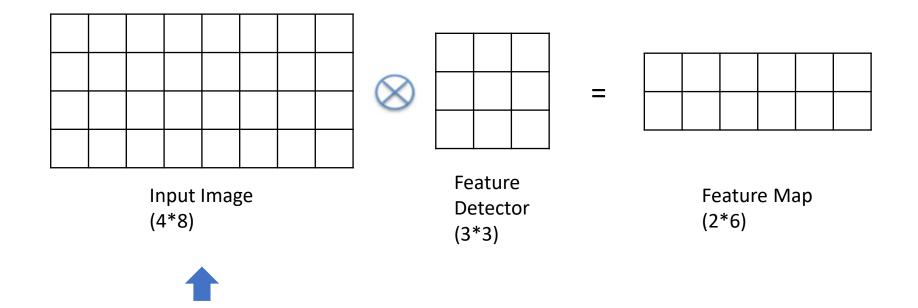
2. Along input height dimension



3. Along input channel dimension

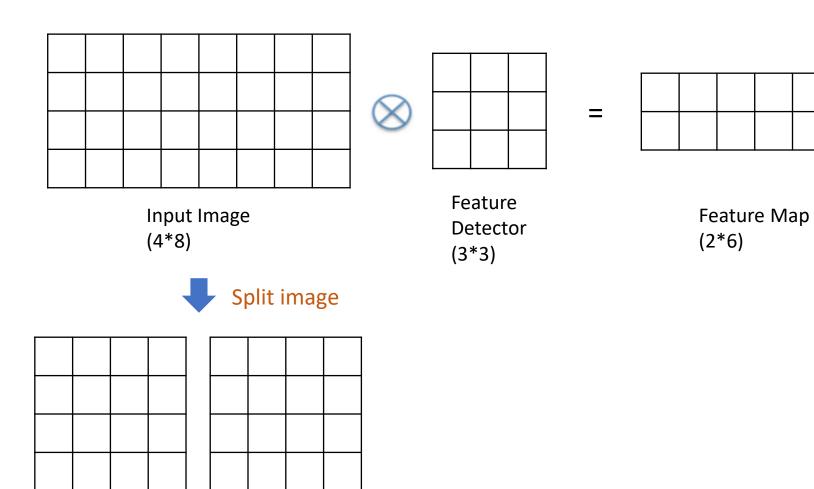


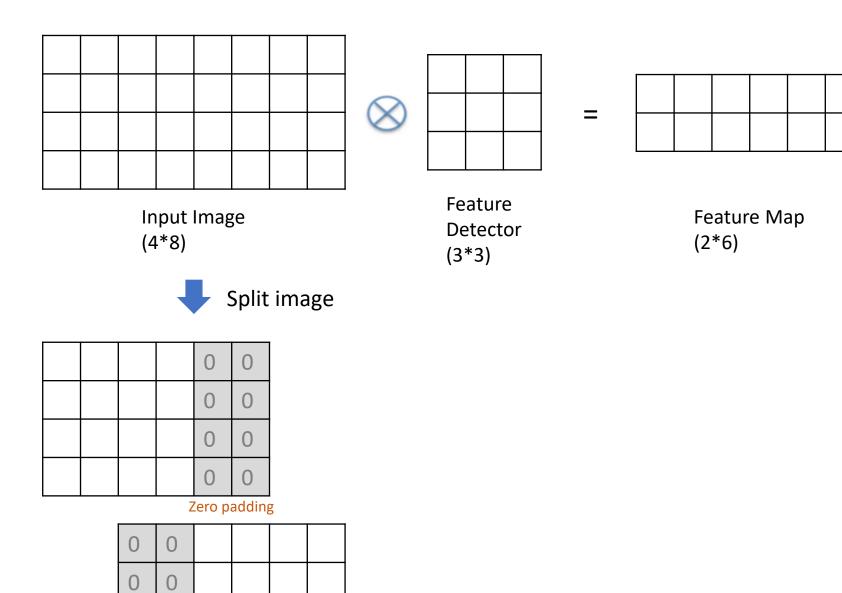
Appendix



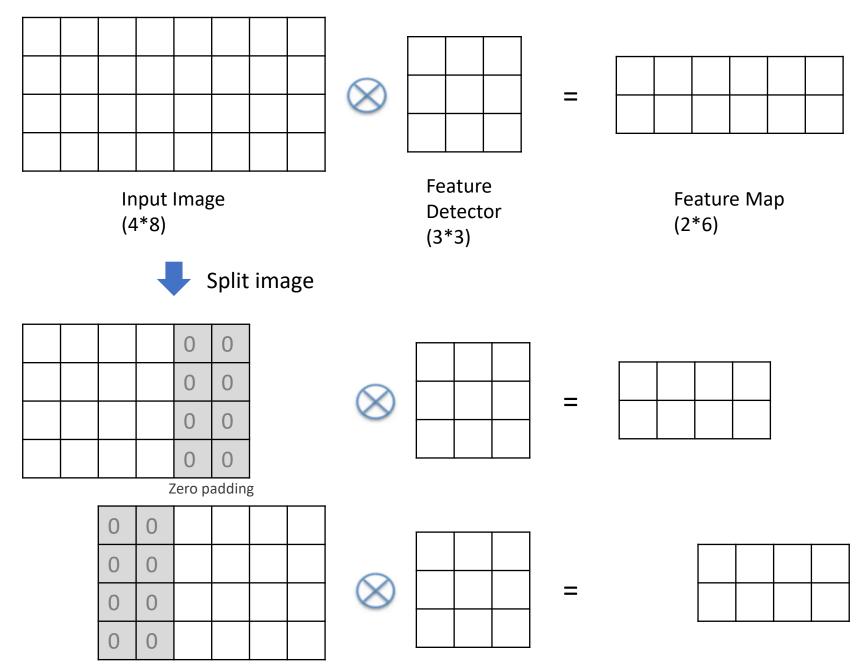
Split input image with weight

To split input image to fit hardware resource constraints

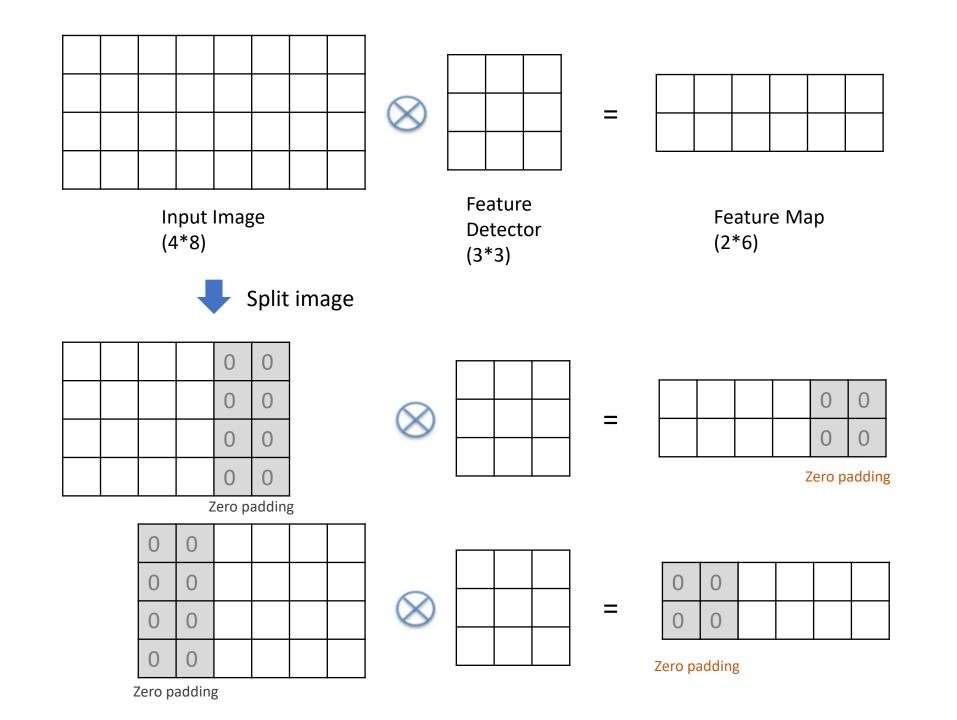


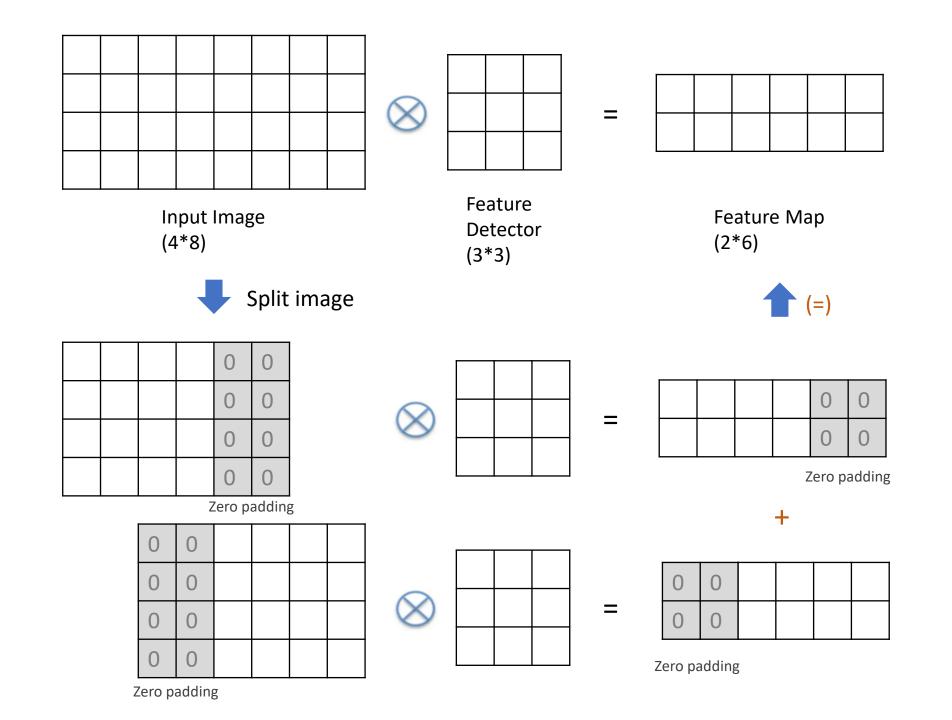


Zero padding



Zero padding





Follow up

1. To consider input /weight and output stationary to do the optimization.