

| Adversarial Perturbations from | FR-ZF-07 | FR-ZF-0712 | FR-VGG-07 | FR-VGG-0712 | R-FCN-RN50 | R-FCN-RN101 |
|---|-----------------|-------------------|------------------|--------------------|-------------------|--------------------|
| None | 58.70 | 61.07 | 69.14 | 72.07 | 76.40 | 78.06 |
| FR-ZF-07 (\mathbf{r}_1) | 3.61 | 22.15 | 66.01 | 69.47 | 74.01 | 75.87 |
| FR-ZF-0712 (\mathbf{r}_2) | 13.14 | 1.95 | 64.61 | 68.17 | 72.29 | 74.68 |
| FR-VGG-07 (\mathbf{r}_3) | 56.41 | 59.31 | 5.92 | 48.05 | 72.84 | 74.79 |
| FR-VGG-0712 (\mathbf{r}_4) | 56.09 | 58.58 | 31.84 | 3.36 | 70.55 | 72.78 |
| $\mathbf{r}_1 + \mathbf{r}_3$ | 3.98 | 21.63 | 7.00 | 44.14 | 68.89 | 71.56 |
| $\mathbf{r}_1 + \mathbf{r}_3$ (permute) | 58.30 | 61.08 | 68.63 | 71.82 | 76.34 | 77.71 |
| $\mathbf{r}_2 + \mathbf{r}_4$ | 13.15 | 2.13 | 28.92 | 4.28 | 63.93 | 67.25 |
| $\mathbf{r}_2 + \mathbf{r}_4$ (permute) | 58.51 | 61.09 | 68.68 | 71.78 | 76.23 | 77.71 |