Coarse-to-fine Foreground Segmentation based on | Co-occurrence Pixel-Block and Spatio-Temporal |
| :---: |
| Attention Model |
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Selection of the Replacement of supporting blocks Foreground similarity


F-MEASURE OF DIFFERENT METHODS ON WALLFLOWER

| Method | Bootstrap | Camouflage | ForegroundAperture | LightSwitch | TimeOfDay | WavingTrees | Overall |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The proposed | $\mathbf{0 . 7 5 6 0}$ | 0.6884 | $\mathbf{0 . 9 4 0 2}$ | $\mathbf{0 . 9 0 9 7}$ | $\mathbf{0 . 7 9 4 9}$ | 0.6665 | $\mathbf{0 . 7 9 2 9}$ |
| STAM[18] | 0.7414 | 0.7369 | 0.8292 | 0.9090 | 0.3429 | 0.5325 | 0.6820 |
| DeepBS[14] | 0.7479 | $\mathbf{0 . 9 8 5 7}$ | 0.6583 | 0.6114 | 0.5494 | 0.9546 | 0.7512 |
| Cascade CNN[15] | 0.5238 | 0.6778 | 0.7935 | 0.5883 | 0.3771 | 0.2874 | 0.5413 |
| FgSegNet[16] | 0.3587 | 0.1210 | 0.419 | 0.6815 | 0.4222 | 0.3456 | 0.3902 |
| CPB[19] | 0.6518 | 0.6112 | 0.5900 | 0.7157 | 0.7564 | 0.7033 | 0.6714 |
| SuBSENSE[6] | 0.4192 | 0.9535 | 0.6635 | 0.3201 | 0.7107 | 0.9597 | 0.6711 |
| GMM[2] | 0.5306 | 0.8307 | 0.5778 | 0.2296 | 0.7203 | $\mathbf{0 . 9 7 6 7}$ | 0.6443 |
| PBAS[30] | 0.2857 | 0.8922 | 0.6459 | 0.2212 | 0.4875 | 0.8421 | 0.5624 |



