|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ANN Model** | **Feature Detector** | **Feature Descriptor** | **Accuracy** | **Precision** | **Recall** |
| **ANN Model 1**  (For example, ANN with **01** hidden layer, and the size of layer = **10**) | ANN on raw images | | Training: 0.30  Validation: 0.012  Test:  0.012 | Training:  0.03  Validation:  0.01  Test:  0.01 | Training:  0.07  Validation:  0.04  Test:  0.04 |
| Eigen | Block | 0.02 | 0.01 | 0.0003996 |
| SIFT | 0.02 | 0.0 | 0.0003996 |
| Harris | Block | 0.165 | 0.1965 | 0.165 |
| SIFT | 0.165 | 0.01 | 0.197 |
| MSER | Block | 0.08 | 0.0333 | 0.07166 |
| SIFT | - | - | - |
| **ANN Model 2**  (For example, ANN with **03** hidden layers, and the size of each hidden layer = **10**) | ANN on raw images | | 0.02 | 0.0 | 0.003 |
| Eigen | Block | 0.04 | 0.0008 | 0.03 |
| SIFT | 0.04 | 0.00012 | 0.04 |
| Harris | Block | 0.25 | 0.22 | 0.22 |
| SIFT | 0.30 | 0.0 | 0.01 |
| MSER | Block | 0.15 | 0.07 | 0.115 |
| SIFT | - | - | - |
| **ANN Model 3**  (For example, ANN with **05** hidden layer, and the size of each hidden layer = **20**) | All the combinations mentioned above  Accuracy: 0.30  Precision: 0.065  Recall: 0.15 | | | | |