表4 对比各类代表性方法任务神经形态数据集处理任务性能

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **评估指标\方法** | **IF** | **LIF** | **CLIF** | **Sliding PSN** | **TEBN** | **OSR** | **BlockALIF** |
| **SHD分类正确率(%)** | 78.33 | 66.98 | 66.1 | 69.23 | 74.54 | 40.93 | 82.36 |
| **SHD分类突触操作数(M)** | 0.0251 | 0.0262 | 0.0263 | 0.0264 | 0.0262 | 0.0228 | 0.0239 |
| **NCAR预训练分类正确率(%)** | 81.00 | 91.69 | 85.34 | 91.41 | 90.96 | 56.23 | 68.14 |
| **Gen1目标检测mAP@0.5** | 0.0013 | 0.4399 | 0.2388 | 0.4781 | 0.5213 | 0.0007 | 0.1347 |
| **Gen1目标检测mAP@0.5:0.95** | 0.0002 | 0.2106 | 0.090204 | 0.2391 | 0.2656 | 0.0003 | 0.0457 |
| **Gen1目标检测突触操作数(M)** | 385.86 | 296.33 | 353.03 | 293.53 | 214.72 | 305.93 | 232.69 |
| **COCO目标检测mAP@0.5** | 0.409 | 0.397 | 0.410 | 0.389 | 0.408 | 0.247 | - |
| **COCO目标检测****mAP@0.5:0.95** | 0.225 | 0.216 | 0.228 | 0.213 | 0.223 | 0.120 | - |
| **COCO目标检测突触操作数(G)** | 363.79 | 444.67 | 537.37 | 1004.68 | 360.62 | 561.75 | - |