Table I

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Dataset** | **Index** | **Method** | | | | |
| **NN** | **SVM** | **FLEXFIS** | **eClass** | **FOR-GIT2FNN** |
| Sonar | Classification Rate | 0.6±0.01 | 0.75±0.021 | 0.61±0.04 | 0.77±0.011 | **0.78±0.01** |
| Precision | 0.59±0.02 | 0.78±0.022 | 0.72±0.05 | 0.78±0.03 | **0.80±0.037** |
| Specificity | 0.79±0.05 | 0.73±0.025 | **0.87±0.02** | 0.74±0.04 | 0.81±0.028 |
| 10dplane | Classification Rate | 0.53±0.02 | 0.85±0.005 | 0.72±0.02 | 0.68±0.02 | **0.89±0.017** |
| Precision | 0.52±0.01 | 0.82±0.008 | 0.62±0.05 | 0.62±0.02 | **0.83±0.021** |
| Specificity | 0.8±0.03 | 0.85±0.008 | 0.81±0.02 | 0.72±0.02 | **0.88±0.021** |
| Breast | Classification Rate | 0.77±0.015 | 0.94±0.01 | 0.68±0.01 | 0.94±0.05 | **0.96±0.007** |
| Precision | 0.75±0.014 | 0.78±0.01 | 0.58±0.05 | 0.75±0.06 | **0.78±0.04** |
| Specificity | 0.65±0.05 | **0.96±0.002** | 0.86±0.01 | 0.94±0.01 | 0.95±0.01 |
| Circle | Classification Rate | 0.71±0.02 | 0.68±0.008 | 0.76±0.017 | 0.86±0.01 | **0.87±0.025** |
| Precision | 0.64±0.02 | 0.63±0.007 | 0.67±0.02 | 0.83±0.01 | **0.91±0.02** |
| Specificity | 0.57±0.03 | 0.54±0.013 | 0.52±0.04 | 0.86±0.01 | **0.90±0.03** |
| Electricity pricing | Classification Rate | 0.81±0.02 | 0.52±0.03 | 0.76±0.01 | 0.72±0.03 | **0.77±0.03** |
| Precision | 0.78±0.02 | 0.73±0.04 | 0.75±0.02 | 0.73±0.02 | **0.83±0.02** |
| Specificity | 0.55±0.04 | 0.74±0.02 | 0.76±0.03 | 0.65±0.03 | **0.81±0.02** |