Table 7. Comparison between the EN-ICSA method and other feature selection methods

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Method | Number of features | Acc (%) | Pre (%) | Rec (%) | F1-Score (%) |
| EN-ICSA | 94 | **91.94** | **92.32** | **89.85** | **90.82** |
| Elastic Net | 148 | 90.96 | 91.74 | 89.03 | 90.08 |
| LASSO | 70 | 84.29 | 84.37 | 83.82 | 82.99 |
| Ridge | 122 | 82.71 | 82.47 | 82.13 | 81.60 |
| RFE | 261 | 86.89 | 87.71 | 86.78 | 85.66 |
| mRMR | 100 | 87.80 | 87.83 | 87.15 | 86.54 |
| ReliefF | 90 | 82.43 | 82.63 | 81.87 | 80.86 |
| GA | 156 | 87.12 | 87.53 | 87.13 | 85.88 |
| PSO | 156 | 87.29 | 87.86 | 87.35 | 86.01 |
| CSA | 200 | 86.67 | 87.06 | 86.48 | 85.32 |