|             |      |        |      |         |         |         | Conf     | usion m             | natrix  |         |         |       |       |        |       |          |                    |           |         |         |                      |                     | No       | rmalize | d confu            | sion m | atrix  |        |       |       |        |        |
|-------------|------|--------|------|---------|---------|---------|----------|---------------------|---------|---------|---------|-------|-------|--------|-------|----------|--------------------|-----------|---------|---------|----------------------|---------------------|----------|---------|--------------------|--------|--------|--------|-------|-------|--------|--------|
| 5.33        | 2.12 | 0.00   | 0.00 | 7.45    | 0.01    | 0.24    | 0.04     | 0.00                | 0.00    | 0.00    | 0.00    | 0.00  | 0.00  | 0.00   | 0.00  | - 500000 | л<br>ч<br>ч        | 21.51%    | % 0.01% | 6 0.00  | % 75.49°             | % 0.149             | 6 2.41%  | 0.36%   | 0.04%              | 0.01%  | 0.04%  | 0.00%  | 0.00% | 0.00% | 0.00%  | 0.00%  |
| 7.33        | 0.00 | 121.72 | 0.00 | 453.73  | 1.67    | 0.18    | 0.00     | 0.13                | 0.07    | 0.07    | 0.14    | 0.00  | 0.00  | 0.00   | 0.00  | 300000   | 22                 | 2 - 0.00% | 21.079  | 0.009   | 78.54                | 0.299               | 6 0.03%  | 0.00%   | 0.02%              | 0.01%  | 0.01%  | 0.02%  | 0.00% | 0.00% | 0.00%  | 0.00%  |
| 8.33        | 0.00 | 0.00   | 0.00 | 0.00    | 0.00    | 0.00    | 0.00     | 0.00                | 0.00    | 0.00    | 0.00    | 0.00  | 0.00  | 0.00   | 0.00  |          | α<br>α             | ) -<br>)  |         |         |                      |                     |          |         |                    |        |        |        |       |       |        |        |
| 9.33        | 7.45 | 453.73 | 0.00 | 41298.0 | 1833.50 | 3040.34 | 746.35   | 3991.26             | 1520.38 | 409.01  | 498.99  | 0.00  | 0.00  | 2.51   | 0.77  | - 400000 | ر<br>م<br>م        | 0.00%     | 6 0.08% | 6 0.009 | % 97.74 <sup>1</sup> | % 0.33 <sup>9</sup> | % 0.55%  | 0.13%   | 0.72%              | 0.27%  | 0.07%  | 0.09%  | 0.00% | 0.00% | 0.00%  | 0.00%  |
| -<br>-<br>- | 0.01 | 1.67   | 0.00 | 1833.50 | 3632.28 | 7.55    | 0.71     | 0.39                | 0.21    | 2.13    | 0.26    | 0.00  | 0.00  | 0.08   | 0.02  |          | ر<br>د<br>د        | - 0.00%   | 6 0.03% | 6 0.00° | % 33.47              | % 66.30             | % 0.14%  | 0.01%   | 0.01%              | 0.00%  | 0.04%  | 0.00%  | 0.00% | 0.00% | 0.00%  | 0.00%  |
| 11.33 1     | 0.24 | 0.18   | 0.00 | 3040.34 | 7.55    | 85314.9 | 13153.68 | 52.29               | 100.03  | 53.56   | 28.15   | 0.00  | 0.00  | 7.37   | 2.49  |          | ر<br>م<br><u>-</u> | - 0.00%   | 6 0.00% | % 0.00° | % 3.31%              | 6 0.019             | 6 92.98% | 3.44%   | 0.06%              | 0.11%  | 0.06%  | 0.03%  | 0.00% | 0.00% | 0.01%  | 0.00%  |
| 12.33       | 0.04 | 0.00   | 0.00 | 746.35  | 0.71    | 3153.68 | 5979.96  | 0.40                | 0.18    | 6.78    | 4.96    | 0.00  | 0.00  | 0.62   | 0.17  | - 300000 | ele<br>  1.5 23 1  | )         | 6 0.00% | 6 0.00° | % 7.54%              | 6 0.019             | 6 31.88% | 60.44%  | 0.00%              | 0.00%  | 0.07%  | 0.05%  | 0.00% | 0.00% | 0.01%  | 0.00%  |
| . 3.33      | 0.00 | 0.13   | 0.00 | 3991.26 | 0.39    | 52.29   | 0.40     | 3460.42             | 299.32  | 87.84   | 199.02  | 0.00  | 0.00  | 0.01   | 0.00  |          | edicted al         | 0.00%     | 6 0.00% | % 0.00° | % 49.33°             | % 0.009             | % 0.65%  | 0.00%   | 42.77%             | 3.70%  | 1.09%  | 2.46%  | 0.00% | 0.00% | 0.00%  | 0.00%  |
| 14.33       | 0.00 | 0.07   | 0.00 | 1520.38 | 0.21    | 100.03  | 0.18     | 299.32              | 4879.73 | 21.35   | 479.75  | 0.00  | 0.00  | 0.01   | 0.00  |          | Pre                |           | 6 0.00% | 6 0.00° | % 20.82              | % 0.009             | 6 1.37%  | 0.00%   | 4.10%              | 66.84% | 0.29%  | 6.57%  | 0.00% | 0.00% | 0.00%  | 0.00%  |
| 15.33       | 0.00 | 0.07   | 0.00 | 409.01  | 2.13    | 53.56   | 6.78     | 87.84               | 21.35   | 7103.18 | 64.83   | 0.00  | 0.00  | 135.49 | 17.08 | - 200000 | ת<br>ה<br>ה        | - 0.00%   | 6 0.00% | 6 0.009 | % 5.18%              | 6 0.039             | 6 0.68%  | 0.09%   | 1.11%              | 0.27%  | 89.90% | 0.82%  | 0.00% | 0.00% | 1.71%  | 0.22%  |
| . 55.01     | 0.00 | 0.14   | 0.00 | 498.99  | 0.26    | 28.15   | 4.96     | 199.02              | 479.75  | 64.83   | 1214.71 | 0.00  | 0.00  | 4.28   | 0.76  |          |                    | - 0.00%   | 6 0.01% | 6 0.009 | % 19.99 <sup>1</sup> | % 0.019             | 6 1.13%  | 0.20%   | 7.97%              | 19.22% | 2.60%  | 48.67% | 0.00% | 0.00% | 0.17%  | 0.03%  |
| 17.53       | 0.00 | 0.00   | 0.00 | 0.00    | 0.00    | 0.00    | 0.00     | 0.00                | 0.00    | 0.00    | 0.00    | 0.00  | 0.00  | 0.00   | 0.00  |          | 7 23               | ·<br>) -  |         |         |                      |                     |          |         |                    |        |        |        |       |       |        |        |
| 18.33<br>-  | 0.00 | 0.00   | 0.00 | 0.00    | 0.00    | 0.00    | 0.00     | 0.00                | 0.00    | 0.00    | 0.00    | 0.00  | 0.00  | 0.00   | 0.00  | - 100000 | ر<br>م<br>م        | ) -<br>)  |         |         |                      |                     |          |         |                    |        |        |        |       |       |        |        |
| 19.55       | 0.00 | 0.00   | 0.00 | 2.51    | 0.08    | 7.37    | 0.62     | 0.01                | 0.01    | 135.49  | 4.28    | 0.00  | 0.00  | 29.51  | 2.10  |          | 20                 | - 0.00%   | 6 0.00% | 6 0.00° | % 1.38%              | 6 0.049             | 4.05%    | 0.34%   | 0.01%              | 0.00%  | 74.46% | 2.35%  | 0.00% | 0.00% | 16.22% | 1.16%  |
| . 66.22     | 0.00 | 0.00   | 0.00 | 0.77    | 0.02    | 2.49    | 0.17     | 0.00                | 0.00    | 17.08   | 0.76    | 0.00  | 0.00  | 2.10   | 5.29  |          | , c                | - 0.00%   | 0.00%   | % 0.00° | % 2.70%              | 6 0.069             | % 8.67%  | 0.58%   | 0.00%              | 0.01%  | 59.55% | 2.63%  | 0.00% | 0.00% | 7.34%  | 18.46% |
| <b>,</b> -  | 5.33 | 7.33   | 8.33 | 9.33    | 10.33   | 11.33   |          | 13.33<br>True allel |         | 15.33   | 16.33   | 17.33 | 18.33 | 19.33  | 22.33 | - 0      | ,                  | 5.33      | 7.33    | 8.33    | 9.33                 | 10.3                | 3 11.33  |         | 13.33<br>True alle |        | 15.33  | 16.33  | 17.33 | 18.33 | 19.33  | 22.33  |

- 0.6