Output tables for the test of Multiple comparisons.

July 3, 2017

1 Average rankings of Friedman test

Average ranks obtained by applying the Friedman procedure

Friedman statistic considering reduction performance (distributed according to chi-square with 11 degrees of freedom: 78.053846.

P-value computed by Friedman Test: 4.3673398231192095E-11.

| ${ m Algorithm}$ | Ranking |
|---------------------------|---------|
| MIRSVM | 2.4333 |
| $\operatorname{miGraph}$ | 3.8333 |
| MIBoost | 9.6 |
| MIOptimalBall | 7.8 |
| MIDD | 6.5667 |
| MIWrapper | 9.6 |
| MISMO | 5.2 |
| MISVM | 8.5667 |
| $\operatorname{SimpleMI}$ | 9.6 |
| TLC | 4.7 |
| Bagging | 4.8667 |
| Stacking | 5.2333 |

Table 1: Average Rankings of the algorithms

2 Post hoc comparisons

Results achieved on post hoc comparisons for $\alpha = 0.05$, $\alpha = 0.10$ and adjusted p-values.

2.1 P-values for $\alpha = 0.05$

Nemenyi's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.000758 . Holm's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.001111 . Shaffer's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.000758 .

| Samplest | | | | | | |
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| 65 MIRSVM vs. SimpleMI 5.443474 0 0.000781 0.00099 64 MIRSVM vs. SimpleMI 5.465601 0.00003 0.000781 0.00099 62 miGraph vs. MiBoost 4.380098 0.000012 0.000806 0.00099 61 miGraph vs. MiIWrapper 4.380098 0.000012 0.00083 0.00099 59 MiRSVM vs. MiOptimalBall 4.076276 0.000046 0.00083 0.00099 58 MiBoost vs. TLC 3.721817 0.000198 0.000820 0.00099 56 SimpleMI vs. TLC 3.721817 0.000198 0.000877 0.000999 56 SimpleMI vs. Bagging 3.595225 0.00324 0.000999 0.000999 54 MiBoost vs. Bagging 3.595225 0.00324 0.000990 0.00099 55 miGraph vs. MiSMO 3.34204 0.000832 0.00099 0.001087 50 MiWapper vs. MiSMO 3.34204 0.000832 0.00009 0.001087 50 MiWapper vs. Stacking 3.316721 | i | algorithms | $z = (R_0 - R_i)/SE$ | p | Holm | Shaffer |
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| 16 MIOptimalBall vs. MIDD 0.936784 0.34887 0.003125 0.003125 15 miGraph vs. Bagging 0.784873 0.432528 0.003333 0.003351 14 MIBoost vs. MISVM 0.784873 0.432528 0.003571 0.003571 13 MIWrapper vs. MISVM 0.784873 0.432528 0.003846 0.003846 12 MISVM vs. SimpleMI 0.784873 0.432528 0.004167 0.004167 11 miGraph vs. TLC 0.658281 0.510358 0.004545 0.004545 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.005 0.005 9 TLC vs. Stacking 0.405096 0.685407 0.005556 0.005556 8 MISMO vs. TLC 0.379777 0.704111 0.00625 0.00625 7 Bagging vs. Stacking 0.278503 0.780626 0.007143 0.007143 6 MISMO vs. Bagging 0.253185 0.800125 0.008333 0.008333 5 TLC vs. Bagging 0.126592 | | | | | | |
| 15 miGraph vs. Bagging 0.784873 0.432528 0.003333 0.003333 14 MIBoost vs. MISVM 0.784873 0.432528 0.003571 0.003571 13 MIWrapper vs. MISVM 0.784873 0.432528 0.003846 0.003846 12 MISVM vs. SimpleMI 0.784873 0.432528 0.004167 0.004167 11 miGraph vs. TLC 0.658281 0.510358 0.004545 0.004545 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.005 0.005 9 TLC vs. Stacking 0.405096 0.685407 0.005556 0.005556 8 MISMO vs. TLC 0.379777 0.704111 0.00625 0.00625 7 Bagging vs. Stacking 0.278503 0.780626 0.007143 0.007143 6 MISMO vs. Bagging 0.253185 0.800125 0.008333 0.008333 5 TLC vs. Bagging 0.126592 0.899263 0.01 0.01 4 MISMO vs. Stacking 0.025318 | | | | | | |
| 14 MIBoost vs. MISVM 0.784873 0.432528 0.003571 0.003571 13 MIWrapper vs. MISVM 0.784873 0.432528 0.003846 0.003846 12 MISVM vs. SimpleMI 0.784873 0.432528 0.004167 0.004167 11 miGraph vs. TLC 0.658281 0.510358 0.004545 0.004545 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.005 0.005 9 TLC vs. Stacking 0.405096 0.685407 0.005556 0.005556 8 MISMO vs. TLC 0.379777 0.704111 0.00625 0.00625 7 Bagging vs. Stacking 0.278503 0.780626 0.007143 0.007143 6 MISMO vs. Bagging 0.253185 0.800125 0.008333 0.008333 5 TLC vs. Bagging 0.126592 0.899263 0.01 0.01 4 MISMO vs. Stacking 0.025318 0.979801 0.0125 0.0125 3 MIBoost vs. MIWrapper 0 1 | | | | | | |
| 12 MISVM vs. SimpleMI 0.784873 0.432528 0.004167 0.004167 11 miGraph vs. TLC 0.658281 0.510358 0.004545 0.004545 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.005 0.005 9 TLC vs. Stacking 0.405096 0.685407 0.005556 0.005556 8 MISMO vs. TLC 0.379777 0.704111 0.00625 0.00625 7 Bagging vs. Stacking 0.278503 0.780626 0.007143 0.007143 6 MISMO vs. Bagging 0.253185 0.800125 0.008333 0.008333 5 TLC vs. Bagging 0.126592 0.899263 0.01 0.01 4 MISMO vs. Stacking 0.025318 0.979801 0.0125 0.0125 3 MIBoost vs. MIWrapper 0 1 0.016667 0.016667 2 MIBoost vs. SimpleMI 0 1 0.025 0.025 | | | | | | |
| 11 miGraph vs. TLC 0.658281 0.510358 0.004545 0.004545 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.005 0.005 9 TLC vs. Stacking 0.405096 0.685407 0.005556 0.005556 8 MISMO vs. TLC 0.379777 0.704111 0.00625 0.00625 7 Bagging vs. Stacking 0.278503 0.780626 0.007143 0.007143 6 MISMO vs. Bagging 0.253185 0.800125 0.008333 0.008333 5 TLC vs. Bagging 0.126592 0.899263 0.01 0.01 4 MISMO vs. Stacking 0.025318 0.979801 0.0125 0.0125 3 MIBoost vs. MIWrapper 0 1 0.016667 0.016667 2 MIBoost vs. SimpleMI 0 1 0.025 0.025 | 13 | MIWrapper vs. MISVM | 0.784873 | 0.432528 | 0.003846 | 0.003846 |
| 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.005 0.005 9 TLC vs. Stacking 0.405096 0.685407 0.005556 0.005556 8 MISMO vs. TLC 0.379777 0.704111 0.00625 0.00625 7 Bagging vs. Stacking 0.278503 0.780626 0.007143 0.007143 6 MISMO vs. Bagging 0.253185 0.800125 0.008333 0.008333 5 TLC vs. Bagging 0.126592 0.899263 0.01 0.01 4 MISMO vs. Stacking 0.025318 0.979801 0.0125 0.0125 3 MIBoost vs. MIWrapper 0 1 0.016667 0.016667 2 MIBoost vs. SimpleMI 0 1 0.025 0.025 | | | 0.784873 | 0.432528 | | |
| 9 TLC vs. Stacking 0.405096 0.685407 0.005556 0.005556 8 MISMO vs. TLC 0.379777 0.704111 0.00625 0.00625 7 Bagging vs. Stacking 0.278503 0.780626 0.007143 0.007143 6 MISMO vs. Bagging 0.253185 0.800125 0.008333 0.008333 5 TLC vs. Bagging 0.126592 0.899263 0.01 0.01 4 MISMO vs. Stacking 0.025318 0.979801 0.0125 0.0125 3 MIBoost vs. MIWrapper 0 1 0.016667 0.016667 2 MIBoost vs. SimpleMI 0 1 0.025 0.025 | | | | | | |
| 8 MISMO vs. TLC 0.379777 0.704111 0.00625 0.00625 7 Bagging vs. Stacking 0.278503 0.780626 0.007143 0.007143 6 MISMO vs. Bagging 0.253185 0.800125 0.008333 0.008333 5 TLC vs. Bagging 0.126592 0.899263 0.01 0.01 4 MISMO vs. Stacking 0.025318 0.979801 0.0125 0.0125 3 MIBoost vs. MIWrapper 0 1 0.016667 0.016667 2 MIBoost vs. SimpleMI 0 1 0.025 0.025 | | | | | | |
| 7 Bagging vs. Stacking 0.278503 0.780626 0.007143 0.007143 6 MISMO vs. Bagging 0.253185 0.800125 0.008333 0.008333 5 TLC vs. Bagging 0.126592 0.899263 0.01 0.01 4 MISMO vs. Stacking 0.025318 0.979801 0.0125 0.0125 3 MIBoost vs. MIWrapper 0 1 0.016667 0.016667 2 MIBoost vs. SimpleMI 0 1 0.025 0.025 | | | | | | |
| 6 MISMO vs. Bagging 0.253185 0.800125 0.008333 0.008333 5 TLC vs. Bagging 0.126592 0.899263 0.01 0.01 4 MISMO vs. Stacking 0.025318 0.979801 0.0125 0.0125 3 MIBoost vs. MIWrapper 0 1 0.016667 0.016667 2 MIBoost vs. SimpleMI 0 1 0.025 0.025 | | | | | | |
| 5 TLC vs. Bagging 0.126592 0.899263 0.01 0.01 4 MISMO vs. Stacking 0.025318 0.979801 0.0125 0.0125 3 MIBoost vs. MIWrapper 0 1 0.016667 0.016667 2 MIBoost vs. SimpleMI 0 1 0.025 0.025 | | | | | | |
| 4 MISMO vs. Stacking 0.025318 0.979801 0.0125 0.0125 3 MIBoost vs. MIWrapper 0 1 0.016667 0.016667 2 MIBoost vs. SimpleMI 0 1 0.025 0.025 | | | | | | |
| 2 MIBoost vs. SimpleMI 0 1 0.025 0.025 | 4 | MISMO vs. Stacking | | | 0.0125 | |
| | | | | | | |
| 1 MIWrapper vs. SimpleMI 0 1 0.05 0.05 | | | | | | |
| | | MI wrapper vs. SimpleMI | U | 1 | 0.05 | 0.05 |

Table 2: P-values Table for $\alpha = 0.05$

2.2 P-values for $\alpha = 0.10$

Nemenyi's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.001515 . Holm's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.002273 . Shaffer's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.001515 .

| 66 MIRSVM vs. MIBoost 5.443474 0 0.001515 0.00 65 MIRSVM vs. SimpleMI 5.443474 0 0.001538 0.00 64 MIRSVM vs. MISVM 4.658601 0.0000032 0.001587 0.00 62 miGraph vs. MIBoost 4.380008 0.000012 0.001639 0.00 60 miGraph vs. MIWapper 4.380008 0.000012 0.001639 0.00 59 MIRSVM vs. MIOptimalBall 4.976276 0.000046 0.001635 0.00 59 MIRSVM vs. MICOptimalBall 4.976276 0.000046 0.001746 0.00 59 MIRSOW vs. TLC 3.721817 0.000188 0.001734 0.00 56 SimpleMI vs. TLC 3.721817 0.000188 0.001784 0.00 55 miGraph vs. MISVM 3.595225 0.000324 0.001852 0.001852 0.001852 0.001852 0.001852 0.001852 0.001852 0.001852 0.001852 0.001852 0.001852 0.001852 0.001852 0.00185 | i | algorithms | ~ = (D D)/SF | | Holm | Shaffer |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|-------------------------------|---------------|----------|---------------------|
| 65 MIRSVM vs. SimpleMI 5.443474 0 0.001538 0.00 63 MIRSVM vs. MISVM 4.658601 0.000003 0.001587 0.00 62 miGraph vs. MIBoost 4.380098 0.000012 0.001613 0.00 61 miGraph vs. MiWrapper 4.380098 0.000012 0.001639 0.00 59 MIRSVM vs. MIOptimalBall 4.076276 0.000016 0.001639 0.00 59 MIRSVM vs. MIOptimalBall 4.076276 0.000018 0.001724 0.00 56 SimpleMI vs. TLC 3.721817 0.000198 0.001734 0.00 56 SimpleMI vs. TLC 3.721817 0.000198 0.001786 0.00 55 miGraph vs. MISVM 3.595225 0.000324 0.001818 0.00 54 MiBoost vs. Bagging 3.595225 0.000324 0.00188 0.00 51 MiBoost vs. MISMO 3.4204 0.000832 0.00210 0.00 49 MiSMO vs. SimpleMI 3.316721 0.000911 | $\frac{i}{66}$ | 9 | $z = (R_0 - R_i)/SE$ 5 443474 | $\frac{p}{0}$ | | 0.001515 |
| 64 MIRSVM vs. MISVM 4.658601 0.000003 0.001587 0.00 62 miGraph vs. MIBoost 4.380008 0.000012 0.001613 0.00 61 miGraph vs. MiWrapper 4.380008 0.000012 0.001639 0.00 60 miGraph vs. SimpleMI 4.380008 0.000012 0.001639 0.00 59 MIRSVM vs. MiOptimalBall 4.076276 0.000046 0.001695 0.00 59 MIRSVM vs. MiOptimalBall 4.076276 0.000046 0.001695 0.00 50 Milrosot vs. TLC 3.721817 0.000188 0.001754 0.00 56 SimpleMI vs. TLC 3.721817 0.000189 0.001754 0.00 55 miGraph vs. MiSVM 3.595225 0.000324 0.001852 0.00 54 MiBoost vs. Bagging 3.595225 0.000324 0.001852 0.00 55 MiBoost vs. MiSMO 3.34204 0.000832 0.001661 0.00 50 MiWrapper vs. Stacking 3.316721 0. | | | | | | 0.001818 |
| 63 MIRSVM vs. MIISOost 4.658601 0.000003 0.001613 0.00 61 miGraph vs. MIWrapper 4.380098 0.000012 0.001613 0.00 60 miGraph vs. SimpleMI 4.380098 0.000012 0.001639 0.00 59 MIRSVM vs. MIOptimalBall 4.076276 0.000046 0.001724 0.00 58 MIBoost vs. TLC 3.721817 0.000198 0.001724 0.00 56 SimpleMI vs. TLC 3.721817 0.000198 0.001734 0.00 55 miGraph vs. MISVM 3.595225 0.000324 0.001818 0.00 54 MIBoost vs. Bagging 3.595225 0.000324 0.001852 0.00 52 SimpleMI vs. Bagging 3.595225 0.000324 0.00183 0.00 51 MIBoost vs. MISMO 3.34204 0.000832 0.00201 0.00 49 MISMO vs. SimpleMI 3.34204 0.000832 0.00204 0.00 40 MISMO vs. SimpleMI 3.34204 0.000832 | | | | | | 0.001818 |
| 61 miGraph vs. MiWrapper 4.380098 0.000012 0.001639 0.00 59 MIRSVM vs. MIOptimalBall 4.076276 0.000046 0.001695 0.00 58 MIBoost vs. TLC 3.721817 0.000188 0.001724 0.00 57 MIWapper vs. TLC 3.721817 0.000198 0.001786 0.00 55 miGraph vs. MISVM 3.595225 0.000324 0.00188 0.00 54 MIBoost vs. Bagging 3.595225 0.000324 0.001882 0.00 53 MiWrapper vs. MiSMO 3.34204 0.000832 0.001203 0.001861 51 MiBoost vs. MISMO 3.34204 0.000832 0.002 0.00 48 MiBoost vs. Stacking 3.316721 0.000911 0.002202 0.00 46 MiRSWA vs. MIDD 3.136721 0.000911 0.002128 0.00 45 MiRSWA vs. MIDD 3.139492 0.01692 0.002273 0.00 45 MiRSWA vs. Sagging 2.816352 0.004949 | | | | | | 0.001818 |
| 60 miGraph vs. SimpleMI 4.380098 0.000012 0.001667 0.00 59 MIRSVM vs. MIOptimalBall 4.076276 0.000046 0.001695 0.00 57 MIWrapper vs. TLC 3.721817 0.000198 0.001724 0.00 56 SimpleMI vs. TLC 3.721817 0.000198 0.001786 0.00 55 miGraph vs. MISVM 3.595225 0.000324 0.00188 0.00 54 MIBoost vs. Bagging 3.595225 0.000324 0.001887 0.00 52 SimpleMI vs. Bagging 3.595225 0.000324 0.001887 0.00 50 MIWapper vs. MISMO 3.34204 0.000832 0.002041 0.00 50 MIWapper vs. Stacking 3.316721 0.000911 0.002083 0.00 48 MIBoost vs. Stacking 3.316721 0.000911 0.002283 0.00 45 MIRSVM vs. Stacking 3.316721 0.000911 0.002274 0.00 45 MIRSVM vs. MIDD 3.13992 0.001692< | 62 | miGraph vs. MIBoost | 4.380098 | 0.000012 | 0.001613 | 0.001818 |
| 59 MIRSVM vs. MIOptimalBall 4.076276 0.000046 0.001695 0.00 58 MIBoost vs. TLC 3.721817 0.000198 0.001754 0.00 56 SimpleMI vs. TLC 3.721817 0.000198 0.001754 0.00 56 SimpleMI vs. TLC 3.721817 0.000198 0.00186 0.00 55 miGraph vs. MISVM 3.595225 0.000324 0.00187 0.00 53 MiWrapper vs. Bagging 3.595225 0.000324 0.00187 0.00 51 MiBoost vs. MISMO 3.34204 0.000832 0.00161 0.00 50 MIWrapper vs. Stacking 3.316721 0.00091 0.002 0.00 49 MISMO vs. Stacking 3.316721 0.000911 0.002283 0.00 47 MiWrapper vs. Stacking 3.316721 0.000911 0.002212 0.00 46 SimpleMI vs. MIDD 3.13492 0.00192 0.002222 0.00 45 MIRSVM vs. TLC 2.936944 0.003315 <t< td=""><td>61</td><td>miGraph vs. MIWrapper</td><td>4.380098</td><td>0.000012</td><td>0.001639</td><td>0.001818</td></t<> | 61 | miGraph vs. MIWrapper | 4.380098 | 0.000012 | 0.001639 | 0.001818 |
| 58 MIBoost vs. TLC 3.721817 0.000198 0.001724 0.00 56 SimpleMI vs. TLC 3.721817 0.000198 0.001786 0.00 55 miGraph vs. MISVM 3.595225 0.000324 0.00188 0.00 54 MiBoost vs. Bagging 3.595225 0.000324 0.001887 0.00 52 SimpleMI vs. Bagging 3.595225 0.000324 0.001887 0.00 51 MiBoost vs. MISMO 3.34204 0.000832 0.001961 0.00 50 MiWrapper vs. MISMO 3.34204 0.000832 0.002 0.00 49 MISMO vs. SimpleMI 3.316721 0.000911 0.002214 0.00 47 MIWrapper vs. Stacking 3.316721 0.000911 0.002128 0.00 46 SimpleMI vs. Stacking 3.316721 0.000911 0.002128 0.00 41 miGraph vs. MIOptimalBall 3.0129 0.002588 0.002273 0.00 42 MISVM vs. Bagging 2.810382 0.001849 | | | | | | 0.001818 |
| 57 MIWrapper vs. TLC 3.721817 0.000198 0.001754 0.00 56 SimpleMI vs. TLC 3.721817 0.000198 0.001766 0.00 55 miGraph vs. MISVM 3.595225 0.000324 0.001818 0.00 53 MiWrapper vs. Bagging 3.595225 0.000324 0.001887 0.00 51 MiBoost vs. MISMO 3.4204 0.000832 0.001916 0.00 50 MIWrapper vs. MISMO 3.34204 0.000832 0.0021 0.00 49 MISMO vs. SimpleMI 3.34204 0.000832 0.002041 0.00 47 MIWrapper vs. Stacking 3.316721 0.000911 0.002033 0.00 46 SimpleMI vs. Stacking 3.316721 0.000911 0.002222 0.00 45 MIRSVM vs. MIDD 3.139492 0.001692 0.002222 0.00 45 MIRSVM vs. Bagging 2.810352 0.004949 0.002381 0.00 42 MISVA vs. Stacking 2.518168 0.01153 | | | | | | 0.001818 |
| 56 SimpleMI vs. TLC 3.721817 0.000198 0.001786 0.00 55 miGraph vs. MISVM 3.595225 0.000324 0.001881 0.00 54 MiBoost vs. Bagging 3.595225 0.000324 0.001887 0.00 52 SimpleMI vs. Bagging 3.595225 0.000324 0.001923 0.00 50 MiBoost vs. MISMO 3.34204 0.000832 0.002 0.00 50 MiWrapper vs. MISMO 3.34204 0.000832 0.002 0.00 49 MISMO vs. SimpleMI 3.316721 0.000911 0.002031 0.002 47 MiWrapper vs. Stacking 3.316721 0.000911 0.002273 0.00 45 MiRSVM vs. MIDDD 3.139492 0.001692 0.002222 0.00 44 miGraph vs. MIOptimalBall 3.0129 0.002588 0.002273 0.00 42 MISVM vs. Bagging 2.810352 0.00494 0.002381 0.002 41 MISMO vs. MiSVM 2.557167 0.010533 | | | | | | 0.001818 |
| 55 miGraph vs. MISVM 3.595225 0.000324 0.001852 0.00 54 MIBoost vs. Bagging 3.595225 0.000324 0.001852 0.00 52 SimpleMI vs. Bagging 3.595225 0.000324 0.001887 0.00 51 MiBoot vs. MISMO 3.34204 0.000832 0.001961 0.00 50 MIWrapper vs. MISMO 3.34204 0.000832 0.002 0.00 49 MISMO vs. SimpleMI 3.34624 0.000832 0.002 0.00 48 MIBOST vs. Stacking 3.316721 0.000911 0.002124 0.00 46 SimpleMI vs. Stacking 3.316721 0.000911 0.002124 0.00 45 MIRSVM vs. MIDD 3.139492 0.001692 0.002223 0.00 43 MISVM vs. Bagging 2.810352 0.004949 0.002336 0.00 42 MISMO vs. MISVM 2.557167 0.010553 0.002238 0.00 41 MISMO vs. MISVM 2.557167 0.010553 0.00 | | | | | | 0.001818 |
| 54 MIBoost vs. Bagging 3.595225 0.000324 0.001887 0.00 52 SimpleMI vs. Bagging 3.595225 0.000324 0.001887 0.00 51 MIBoost vs. MISMO 3.34204 0.000832 0.002 0.00 50 MIWapper vs. MISMO 3.34204 0.000832 0.002 0.00 49 MISMO vs. SimpleMI 3.34204 0.000832 0.002041 0.00 48 MIBoost vs. Stacking 3.316721 0.000911 0.002218 0.00 47 MIWrapper vs. Stacking 3.316721 0.000911 0.002128 0.00 46 SimpleMI vs. Stacking 3.316721 0.000911 0.002174 0.00 45 MIRSVM vs. MIDD 3.13492 0.001692 0.002222 0.00 44 miGraph vs. MIOptimalBall 3.0129 0.002588 0.002232 0.00 42 MISYM vs. Bagging 2.816352 0.004315 0.002331 0.002331 41 MISMO vs. MISVM 2.557167 0.010553 | | | | | | 0.001818 0.001818 |
| 53 MIWrapper vs. Bagging 3.595225 0.000324 0.001923 0.00 51 MiBoost vs. MISMO 3.34204 0.000832 0.001961 0.00 50 MIWrapper vs. MISMO 3.34204 0.000832 0.002 0.00 49 MISMO vs. SimpleMI 3.34204 0.000832 0.00241 0.00 48 MIBoost vs. Stacking 3.316721 0.000911 0.002128 0.00 46 SimpleMI vs. Stacking 3.316721 0.000911 0.002174 0.00 45 MIRSVM vs. MIDD 3.139492 0.001692 0.002222 0.00 43 MISVM vs. MIOptimalBall 3.0129 0.002588 0.002227 0.00 41 MISMO vs. MISVM 2.557167 0.010553 0.002331 0.002326 40 MISVM vs. Stacking 2.531848 0.011346 0.0025 0.00 39 MIOptimalBall vs. TLC 2.354619 0.018542 0.002554 0.00 36 MID vs. MIWrapper 2.303982 0.021224 | | | | | | 0.002174 |
| 52 SimpleMI vs. Bagging 3.595225 0.000324 0.001923 0.001961 0.00 51 MIBoost vs. MISMO 3.34204 0.000832 0.0021 0.00 50 MIWrapper vs. MISMO 3.34204 0.000832 0.0020 0.00 49 MISMO vs. SimpleMI 3.346721 0.000911 0.002202 0.00 47 MIWrapper vs. Stacking 3.316721 0.000911 0.002217 0.00 46 SimpleMI vs. Stacking 3.316721 0.000911 0.002217 0.00 45 MIRSVM vs. MIDD 3.139492 0.001692 0.002222 0.00 44 miGraph vs. MIOptimalBall 3.0129 0.002588 0.002273 0.00 42 MISVM vs. Bagging 2.810352 0.004949 0.002326 0.00 41 MISMO vs. MISVM 2.557167 0.010553 0.002439 0.00 40 MISVM vs. Stacking 2.534819 0.011224 0.00250 0.00 38 MIBoust vs. MIDD 2.303982 | | | | | | 0.002174 |
| 51 MIBoost vs. MISMO 3.34204 0.000832 0.001961 0.002 50 MIWrapper vs. MISMO 3.34204 0.000832 0.0020 0.002 49 MISMO vs. SimpleMI 3.346721 0.000911 0.0020241 0.002 47 MiWrapper vs. Stacking 3.316721 0.000911 0.002128 0.00 46 SimpleMI vs. Stacking 3.316721 0.000911 0.002174 0.00 45 MIRSVM vs. MIDDD 3.139492 0.001692 0.002223 0.00 44 miGraph vs. MIOptimalBall 3.0129 0.002588 0.002236 0.00 42 MISVM vs. Bagging 2.810352 0.004949 0.002381 0.00 41 MISMO vs. MISVM 2.557167 0.010553 0.002331 0.00 39 MIOptimalBall vs. TLC 2.354619 0.018542 0.002564 0.00 38 MIBOst vs. MIDD 2.303982 0.021224 0.002703 0.00 37 MIDD vs. SimpleMI 2.303982 0.021224 <td></td> <td></td> <td></td> <td></td> <td>0.001923</td> <td>0.002174</td> | | | | | 0.001923 | 0.002174 |
| 49 MISMÖ vs. SimpleMI 3.34204 0.000832 0.002041 0.00 48 MIBoost vs. Stacking 3.316721 0.000911 0.00228 0.00 46 SimpleMI vs. Stacking 3.316721 0.000911 0.002128 0.00 45 MIRSVM vs. MIDD 3.34942 0.001692 0.002224 0.00 44 miGraph vs. MIOptimalBall 3.0129 0.002588 0.002273 0.00 43 MISVM vs. Bagging 2.810352 0.004949 0.002381 0.00 41 MISMO vs. MISVM 2.557167 0.010553 0.002439 0.00 40 MISVM vs. Stacking 2.531848 0.011346 0.002564 0.00 38 MIBoost vs. MIDD 2.303982 0.021224 0.002664 0.00 37 MIDD vs. MiWrapper 2.303982 0.021224 0.002664 0.00 38 MIBOV vs. Mismo 2.126753 0.033441 0.00273 0.00 35 MIOptimalBall vs. MISMO 2.10434 0.035603 | 51 | | 3.34204 | 0.000832 | 0.001961 | 0.002174 |
| 48 MIBoost vs. Stacking 3.316721 0.000911 0.002083 0.00 47 MIWrapper vs. Stacking 3.316721 0.000911 0.002174 0.00 45 MIRSVM vs. MIDD 3.316721 0.001692 0.002273 0.00 44 miGraph vs. MIOptimalBall 3.0129 0.002588 0.002273 0.00 43 MISVM vs. Bagging 2.810352 0.004949 0.002326 0.00 42 MISWM vs. Bagging 2.851352 0.004949 0.002381 0.00 40 MISVM vs. Stacking 2.557167 0.010553 0.002439 0.00 40 MISVM vs. Stacking 2.557167 0.010553 0.002439 0.00 39 MIOptimalBall vs. TLC 2.354619 0.018542 0.002564 0.00 38 MIBobost vs. MIDD 2.303982 0.021224 0.002632 0.00 36 MIDD vs. SimpleMI 2.303982 0.021224 0.002778 0.00 35 MIOptimalBall vs. Bagging 2.228027 0. | | | 3.34204 | 0.000832 | 0.002 | 0.002174 |
| 47 MIWrapper vs. Stacking 3.316721 0.000911 0.002128 0.00 46 SimpleMI vs. Stacking 3.316721 0.000911 0.002174 0.00 45 MIRSVM vs. MIOD 3.139492 0.001692 0.002222 0.00 43 MISVM vs. MISVM 2.5094 0.003315 0.002326 0.00 42 MISVM vs. Bagging 2.810352 0.004949 0.002349 0.00 41 MISMO vs. MISVM 2.557167 0.010553 0.002439 0.00 39 MIOptimalBall vs. TLC 2.354619 0.018542 0.002564 0.00 38 MIBoost vs. MIDD 2.303982 0.021224 0.002632 0.00 36 MIDD vs. SimpleMI 2.303982 0.021224 0.002778 0.00 35 MIOptimalBall vs. Bagging 2.228027 0.025879 0.00 34 MIRSVM vs. MISMO 2.101434 0.035663 0.003325 0.00 33 MIRSVM vs. MISMO 2.101434 0.035663 0.003226 | | | | | | 0.002174 |
| 46 SimpleMI vs. MIDD 3.316721 0.000911 0.002122 0.00 45 MIRSVM vs. MIDD 3.139492 0.001692 0.002222 0.00 44 miGraph vs. MIOptimalBall 3.0129 0.002588 0.002273 0.00 42 MISVM vs. Bagging 2.810352 0.004949 0.002381 0.00 41 MISMO vs. MISVM 2.557167 0.010553 0.002439 0.00 40 MISVM vs. Stacking 2.531848 0.011346 0.00256 0.00 39 MIOptimalBall vs. TLC 2.334849 0.012124 0.002632 0.00 38 MIBoost vs. MIDD 2.303982 0.021224 0.002778 0.00 36 MIDD vs. SimpleMI 2.303982 0.021224 0.002778 0.00 35 MIOptimalBall vs. Bagging 2.228027 0.02587 0.00 34 MIRSVM vs. MISMO 2.101434 0.00341 0.00 33 MIGOptimalBall vs. MISMO 1.974842 0.048286 0.003226 0.00 | | | | | | 0.002174 |
| 45 MÍRSVM vs. MIDD 3.139492 0.001692 0.002223 0.002 44 miGraph vs. MIOptimalBall 3.0129 0.002588 0.002273 0.00 42 MISVM vs. Bagging 2.810352 0.004949 0.002381 0.00 41 MISWO vs. MISVM 2.557167 0.010553 0.002439 0.00 40 MISVM vs. Stacking 2.531848 0.011346 0.0025 0.00 39 MIOptimalBall vs. TLC 2.354619 0.018542 0.002632 0.00 38 MIBOD vs. MIWrapper 2.303982 0.021224 0.002703 0.00 36 MIDD vs. SimpleMI 2.303982 0.021224 0.002778 0.00 35 MIOptimalBall vs. Bagging 2.228027 0.025879 0.002877 0.00 34 MIRSVM vs. MISMO 2.101434 0.035603 0.003125 0.00 32 miGraph vs. MIDD 2.076116 0.037883 0.003125 0.00 31 MIOptimalBall vs. MISMO 1.974842 0.048286 | | | | | | 0.002174 |
| 44 miGraph vs. MIOptimalBall 3.0129 0.002588 0.002273 0.00 43 MISVM vs. TLC 2.936944 0.003315 0.002326 0.00 41 MISVM vs. Bagging 2.810352 0.004949 0.002381 0.00 40 MISVM vs. Stacking 2.531848 0.011346 0.0025 0.00 39 MIOptimalBall vs. TLC 2.354619 0.018542 0.002564 0.00 38 MiBoost vs. MIDD 2.303982 0.021224 0.002632 0.00 36 MIDD vs. SimpleMI 2.303982 0.021224 0.002778 0.00 36 MIDD vs. SimpleMI 2.303982 0.021224 0.002778 0.00 35 MIOptimalBall vs. Bagging 2.126753 0.033441 0.0029857 0.00 34 MIRSVM vs. Stacking 2.126753 0.033441 0.00294 0.00 33 MIRSVM vs. MISMO 2.076116 0.03783 0.00325 0.00 34 MIOptimalBall vs. MISMO 1.974842 0.04826 <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.002174</td> | | | | | | 0.002174 |
| 43 MISVM vs. Bagging 2.936944 0.003315 0.002326 0.00 42 MISVM vs. Bagging 2.810352 0.004949 0.002381 0.00 40 MISVM vs. Stacking 2.551167 0.010553 0.002439 0.00 39 MIOptimalBall vs. TLC 2.354619 0.018842 0.002564 0.00 38 MIBoost vs. MIIDD 2.303982 0.021224 0.002632 0.00 36 MIDD vs. MIWrapper 2.303982 0.021224 0.002778 0.00 35 MIOptimalBall vs. Bagging 2.228027 0.025879 0.002857 0.00 34 MIRSVM vs. MISMO 2.101434 0.035603 0.003257 0.00 32 miGraph vs. MIDD 2.076116 0.037883 0.003125 0.00 31 MIOptimalBall vs. MISMO 1.974842 0.048286 0.003226 0.00 30 MIOptimalBall vs. Stacking 1.949523 0.051233 0.003333 0.00 28 MIRSVM vs. TLC 1.721657 0.08 | | | | | | 0.002222 0.002564 |
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| 38 MÍBoost vs. MIDD 2.303982 0.021224 0.002632 0.001 37 MIDD vs. MIWrapper 2.303982 0.021224 0.002773 0.001 36 MIDD vs. SimpleMI 2.303982 0.021224 0.002778 0.001 35 MIOptimalBall vs. Bagging 2.228027 0.025879 0.002857 0.001 34 MIRSVM vs. Stacking 2.126753 0.033441 0.002941 0.001 33 MIRSVM vs. MISMO 2.101434 0.035603 0.00303 0.001 32 miGraph vs. MIDD 2.076116 0.037883 0.003125 0.001 31 MIOptimalBall vs. MISMO 1.974842 0.048286 0.003226 0.00 30 MIOptimalBall vs. MISMO 1.949523 0.051233 0.003333 0.00 28 MIRSVM vs. TLC 1.721657 0.085132 0.003571 0.00 28 MIRSVM vs. MISMO 1.519109 0.128735 0.003704 0.00 25 MIBoost vs. MIOptimalBall 1.367198 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>0.002564</td></t<> | | | | | | 0.002564 |
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| 22 MIDD vs. Bagging 1.291243 0.19662 0.004545 0.00-1 21 MIRSVM vs. miGraph 1.063376 0.287611 0.004762 0.00-1 20 miGraph vs. Stacking 1.063376 0.287611 0.004762 0.00-1 19 MIDD vs. MISMO 1.038058 0.299243 0.005263 0.00-1 18 miGraph vs. MISMO 1.038058 0.299243 0.005263 0.00-1 17 MIDD vs. Stacking 1.012739 0.311185 0.005882 0.00-1 16 MIOptimalBall vs. MIDD 0.936784 0.34887 0.006625 0.00-1 15 miGraph vs. Bagging 0.784873 0.432528 0.007143 0.00-1 14 MIBoost vs. MISVM 0.784873 0.432528 0.007692 0.00-1 13 MIWrapper vs. MISVM 0.784873 0.432528 0.007692 0.00-1 12 MISVM vs. SimpleMI 0.784873 0.432528 0.007692 0.00-1 12 MISVM vs. SimpleMI 0.784873 < | | | | | | 0.004167 |
| 21 MIRSVM vs. miGraph 1.063376 0.287611 0.004762 0.004762 20 miGraph vs. Stacking 1.063376 0.287611 0.005 0.0 19 MIDD vs. MISMO 1.038058 0.299243 0.005263 0.00 18 miGraph vs. MISMO 1.038058 0.299243 0.005556 0.00 17 MIDD vs. Stacking 1.012739 0.311185 0.005882 0.00 16 MIOptimalBall vs. MIDD 0.936784 0.34887 0.00625 0.00 15 miGraph vs. Bagging 0.784873 0.432528 0.006667 0.00 14 MIBoost vs. MISVM 0.784873 0.432528 0.007692 0.00 12 MISVM vs. SimpleMI 0.784873 0.432528 0.007692 0.00 11 miGraph vs. TLC 0.658281 0.510358 0.009091 0.00 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.0 9 TLC vs. Stacking 0.405096 0.685407 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>0.004348</td></t<> | | | | | | 0.004348 |
| 20 miGraph vs. Stacking 1.063376 0.287611 0.005 0.0 19 MIDD vs. MISMO 1.038058 0.299243 0.005263 0.00 18 miGraph vs. MISMO 1.038058 0.299243 0.005556 0.00 17 MIDD vs. Stacking 1.012739 0.311185 0.005882 0.00 16 MIOptimalBall vs. MIDD 0.936784 0.34887 0.00625 0.00 15 miGraph vs. Bagging 0.784873 0.432528 0.006667 0.00 14 MIBoost vs. MISVM 0.784873 0.432528 0.007143 0.00 13 MIWrapper vs. MISVM 0.784873 0.432528 0.007692 0.00 12 MISVM vs. SimpleMI 0.784873 0.432528 0.007692 0.00 11 miGraph vs. TLC 0.658281 0.510358 0.009091 0.00 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.0 9 TLC vs. Stacking 0.405096 0.685407 0 | | | | | | 0.004343 0.004762 |
| 19 MIDD vs. MISMO 1.038058 0.299243 0.005263 0.005 18 miGraph vs. MISMO 1.038058 0.299243 0.005556 0.005 17 MIDD vs. Stacking 1.012739 0.311185 0.005882 0.006 16 MIOptimalBall vs. MIDD 0.936784 0.34887 0.00625 0.00 15 miGraph vs. Bagging 0.784873 0.432528 0.006667 0.00 14 MIBoost vs. MISVM 0.784873 0.432528 0.007143 0.00 13 MIWrapper vs. MISVM 0.784873 0.432528 0.007692 0.00 12 MISVM vs. SimpleMI 0.784873 0.432528 0.008333 0.00 11 miGraph vs. TLC 0.658281 0.510358 0.009091 0.00 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.0 9 TLC vs. Stacking 0.405096 0.685407 0.011111 0.01 8 MISMO vs. TLC 0.379777 0.704111 0. | | | | | | 0.005 |
| 17 MIDD vs. Stacking 1.012739 0.311185 0.005882 0.000 16 MIOptimalBall vs. MIDD 0.936784 0.34887 0.00625 0.00 15 miGraph vs. Bagging 0.784873 0.432528 0.006667 0.00 14 MIBoost vs. MISVM 0.784873 0.432528 0.007143 0.00 13 MIWrapper vs. MISVM 0.784873 0.432528 0.007692 0.00 12 MISVM vs. SimpleMI 0.784873 0.432528 0.008333 0.00 11 miGraph vs. TLC 0.658281 0.510358 0.009091 0.00 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.0 9 TLC vs. Stacking 0.405096 0.688407 0.011111 0.01 8 MISMO vs. TLC 0.379777 0.704111 0.0125 0.00 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.01- 6 MISMO vs. Bagging 0.253185 0.800125 0 | | | | | | 0.005263 |
| 16 MIOptimalBall vs. MIDD 0.936784 0.34887 0.00625 0.00 15 miGraph vs. Bagging 0.784873 0.432528 0.006667 0.00 14 MIBoost vs. MISVM 0.784873 0.432528 0.007143 0.00 13 MIWrapper vs. MISVM 0.784873 0.432528 0.007692 0.00 12 MISVM vs. SimpleMI 0.784873 0.432528 0.008333 0.00 11 miGraph vs. TLC 0.658281 0.510358 0.009091 0.00 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.0 9 TLC vs. Stacking 0.405096 0.688407 0.011111 0.01 8 MISMO vs. TLC 0.379777 0.704111 0.0125 0.00 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.01 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.01 5 TLC vs. Bagging 0.126592 0.899263 0.02 </td <td>18</td> <td>miGraph vs. MISMO</td> <td>1.038058</td> <td>0.299243</td> <td>0.005556</td> <td>0.005556</td> | 18 | miGraph vs. MISMO | 1.038058 | 0.299243 | 0.005556 | 0.005556 |
| 15 miGraph vs. Bagging 0.784873 0.432528 0.006667 0.00 14 MIBoost vs. MISVM 0.784873 0.432528 0.007143 0.00' 13 MIWrapper vs. MISVM 0.784873 0.432528 0.007692 0.00' 12 MISVM vs. SimpleMI 0.784873 0.432528 0.008333 0.00' 11 miGraph vs. TLC 0.658281 0.510358 0.009091 0.00' 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.0 9 TLC vs. Stacking 0.405096 0.685407 0.011111 0.01' 8 MISMO vs. TLC 0.379777 0.704111 0.0125 0.01' 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.01- 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.01' 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.0 | 17 | MIDD vs. Stacking | 1.012739 | 0.311185 | 0.005882 | 0.005882 |
| 14 MIBoost vs. MISVM 0.784873 0.432528 0.007143 0.00° 13 MIWrapper vs. MISVM 0.784873 0.432528 0.007692 0.00° 12 MISVM vs. SimpleMI 0.784873 0.432528 0.008333 0.00° 11 miGraph vs. TLC 0.658281 0.510358 0.009091 0.00° 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.0 9 TLC vs. Stacking 0.405096 0.685407 0.011111 0.01° 8 MISMO vs. TLC 0.379777 0.704111 0.0125 0.0° 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.01 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.01 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.0 | | | 0.936784 | | | 0.00625 |
| 13 MIWrapper vs. MISVM 0.784873 0.432528 0.007692 0.00 12 MISVM vs. SimpleMI 0.784873 0.432528 0.008333 0.00 11 miGraph vs. TLC 0.658281 0.510358 0.009091 0.00 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.4 9 TLC vs. Stacking 0.405096 0.685407 0.011111 0.01 8 MISMO vs. TLC 0.379777 0.704111 0.0125 0.00 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.01 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.01 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.0 | | | | | | 0.006667 |
| 12 MISVM vs. SimpleMI 0.784873 0.432528 0.008333 0.00811 11 miGraph vs. TLC 0.658281 0.510358 0.009091 0.0081 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.01 9 TLC vs. Stacking 0.405096 0.685407 0.011111 0.01 8 MISMO vs. TLC 0.379777 0.704111 0.0125 0.01 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.01 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.010 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.04 | | | | | | 0.007143 |
| 11 miGraph vs. TLC 0.658281 0.510358 0.009091 0.009 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.0 9 TLC vs. Stacking 0.405096 0.685407 0.011111 0.01 8 MISMO vs. TLC 0.379777 0.704111 0.0125 0.0 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.01 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.01 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.0 | | | | | | 0.007692 |
| 10 MIOptimalBall vs. MISVM 0.582325 0.560348 0.01 0.0 9 TLC vs. Stacking 0.405096 0.685407 0.011111 0.01 8 MISMO vs. TLC 0.379777 0.704111 0.0125 0.0 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.01 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.01 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.0 | | | | | | 0.008333 |
| 9 TLC vs. Stacking 0.405096 0.685407 0.011111 0.012 8 MISMO vs. TLC 0.379777 0.704111 0.0125 0.0 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.014 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.014 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.0 | | | | | | $0.009091 \\ 0.01$ |
| 8 MISMO vs. TLC 0.379777 0.704111 0.0125 0.0017 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.014286 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.016 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.0 | | | | | | 0.01 |
| 7 Bagging vs. Stacking 0.278503 0.780626 0.014286 0.014 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.010 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.0 | | | | | | 0.0125 |
| 6 MISMO vs. Bagging 0.253185 0.800125 0.016667 0.016 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.00 | | | | | | 0.014286 |
| 5 TLC vs. Bagging 0.126592 0.899263 0.02 0.0 | | | | | | 0.016667 |
| 4 MISMO vs. Stacking 0.025318 0.070801 0.025 0.0 | 5 | TLC vs. Bagging | | 0.899263 | | 0.02 |
| | 4 | MISMO vs. Stacking | 0.025318 | 0.979801 | 0.025 | 0.025 |
| | | | | | | 0.033333 |
| | | | | | | 0.05 |
| 1 MIWrapper vs. SimpleMI 0 1 0.1 0. | | wiiwrapper vs. SimpleMI | U | 1 | 0.1 | 0.1 |

Table 3: P-values Table for $\alpha = 0.10$

| 1 MIRSVM vs .MIWrapper 0 0.000003 0.000003 0.000003 2 MIRSVM vs .MIWrapper 0 0.000003 0.000003 0.000003 3 MIRSVM vs .SimpleMI 0 0.000003 0.000003 0.000003 4 MIRSVM vs .MISVM 0.0000012 0.000783 0.000735 0.0 5 miGraph vs .MIWrapper 0.000012 0.000783 0.000735 0.0 6 miGraph vs .SimpleMI 0.000012 0.000783 0.000735 0.0 7 miGraph vs .SimpleMI 0.000012 0.000783 0.000735 0.0 9 MIBoost vs .MIOptimalBall 0.000012 0.000783 0.000735 0.0 9 MIBoost vs .TLC 0.000198 0.013054 0.011472 0.0 10 MIWrapper vs .TLC 0.000198 0.013054 0.011472 0.0 11 SimpleMI vs .MISVM 0.000324 0.021391 0.017826 0.0 12 miGraph vs .MISVM 0.000324 0.021391 0.0 | 5haf 00003 00003 00003 00175 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 2 MIRSVM vs .SimpleMI 0 0.000003 0.000003 0.000003 3 MIRSVM vs .SimpleMI 0 0.000003 0.000003 0.00 4 MIRSVM vs .MISVM 0.000012 0.000783 0.000735 0.0 5 miGraph vs .MIBoost 0.000012 0.000783 0.000735 0.0 6 miGraph vs .MIWrapper 0.000012 0.000783 0.000735 0.0 7 miGraph vs .MIOptimalBall 0.000012 0.000783 0.000735 0.0 9 MIBoost vs .MIOptimalBall 0.000046 0.00302 0.0027 0.0 10 MIWrapper vs .TLC 0.000198 0.013054 0.011472 0.0 11 SimpleMI vs .TLC 0.000198 0.013054 0.011472 0.0 12 miGraph vs .MISVM 0.000324 0.021391 0.017826 0.0 13 MIBoost vs .Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs .Bagging 0.000324 0.021391 0. | 00003 00003 00175 |
| 3 MIRSVM vs. MISVM 0.000003 0.000003 0.000001 0.000001 0.000001 0.000001 0.000001 0.000021 0.000021 0.00000783 0.000735 0.0 5 miGraph vs. MIBoost 0.000012 0.000783 0.000735 0.0 6 miGraph vs. MIWrapper 0.000012 0.000783 0.000735 0.0 7 miGraph vs. SimpleMI 0.000012 0.000783 0.000735 0.0 8 MIRSVM vs. MIOptimalBall 0.000012 0.000783 0.00077 0.0 9 MIBoost vs. TLC 0.000198 0.013054 0.011472 0.0 10 MIWrapper vs. TLC 0.000198 0.013054 0.011472 0.0 11 SimpleMI vs. MISVM 0.000324 0.021391 0.017826 0.0 12 miGraph vs. Bagging 0.000324 0.021391 0.017826 0.0 14 MIWrapper vs. Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs. Bagging 0.000324 <td>$00003 \\ 00175$</td> | $00003 \\ 00175$ |
| 5 miGraph vs .MiBoost 0.000012 0.000783 0.000735 0.0 6 miGraph vs .MiWrapper 0.000012 0.000783 0.000735 0.0 7 miGraph vs .SimpleMI 0.000012 0.000783 0.000735 0.0 8 MIRSVM vs .MiOptimalBall 0.000046 0.00302 0.0027 0.0 9 MiBoost vs .TLC 0.000198 0.013054 0.011472 0.0 10 MiWrapper vs .TLC 0.000198 0.013054 0.011472 0.0 11 SimpleMI vs .TLC 0.000198 0.013054 0.011472 0.0 12 miGraph vs .MiSVM 0.000324 0.021391 0.017826 0.0 13 MiBoost vs .Bagging 0.000324 0.021391 0.017826 0.0 14 MiWrapper vs .Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs .Bagging 0.000324 0.021391 0.017826 0.0 16 MiBoost vs .MISMO 0.000832 0.054889 <td< td=""><td></td></td<> | |
| 6 miGraph vs .MiWrapper 0.000012 0.000783 0.000735 0.0 7 miGraph vs .SimpleMI 0.000012 0.000783 0.000735 0.0 8 MIRSVM vs .MiOptimalBall 0.000046 0.00302 0.0027 0.0 9 MiBoost vs .TLC 0.000198 0.013054 0.011472 0.0 10 MiWrapper vs .TLC 0.000198 0.013054 0.011472 0.0 11 SimpleMI vs .TLC 0.000198 0.013054 0.011472 0.0 12 miGraph vs .MISVM 0.000324 0.021391 0.017826 0.0 13 MiBoost vs .Bagging 0.000324 0.021391 0.017826 0.0 14 MiWrapper vs .Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs .Bagging 0.000324 0.021391 0.017826 0.0 16 MiBoost vs .MISMO 0.000832 0.054889 0.042414 0.0 17 MiWrapper vs .MISMO 0.000832 0.054889 <t< td=""><td>00000</td></t<> | 00000 |
| 7 miGraph vs .SimpleMI 0.000012 0.000783 0.000735 0.0 8 MIRSVM vs .MIOptimalBall 0.000046 0.00302 0.0027 0.0 9 MIBoost vs .TLC 0.000198 0.013054 0.011472 0.0 10 MIWrapper vs .TLC 0.000198 0.013054 0.011472 0.0 11 SimpleMI vs .TLC 0.000198 0.013054 0.011472 0.0 12 miGraph vs .MISVM 0.000324 0.021391 0.017826 0.0 13 MIBoost vs .Bagging 0.000324 0.021391 0.017826 0.0 14 MIWrapper vs .Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs .Bagging 0.000324 0.021391 0.017826 0.0 16 MIBoost vs .MISMO 0.000832 0.054889 0.042414 0.0 17 MIWrapper vs .MISMO 0.000832 0.054889 0.042414 0.0 18 MISMO vs .SimpleMI 0.000931 0.060113 | 00652 |
| 8 MIRSVM vs .MIOptimalBall 0.000046 0.00302 0.0027 0.0 9 MIBoost vs .TLC 0.000198 0.013054 0.011472 0.0 10 MIWrapper vs .TLC 0.000198 0.013054 0.011472 0.0 11 SimpleMI vs .TLC 0.000198 0.013054 0.011472 0.0 12 miGraph vs .MISVM 0.000324 0.021391 0.017826 0.0 13 MIBoost vs .Bagging 0.000324 0.021391 0.017826 0.0 14 MIWrapper vs .Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs .Bagging 0.000324 0.021391 0.017826 0.0 16 MIBoost vs .MISMO 0.000832 0.054889 0.042414 0.0 17 MIWrapper vs .MISMO 0.000832 0.054889 0.042414 0.0 18 MISMO vs .SimpleMI 0.000832 0.054889 0.042414 0.0 20 MIWrapper vs .Stacking 0.000911 0.060113 < | 00652 |
| 9 MiBoost vs.TLC 0.000198 0.013054 0.011472 0.0 10 MiWrapper vs.TLC 0.000198 0.013054 0.011472 0.0 11 SimpleMI vs.TLC 0.000198 0.013054 0.011472 0.0 12 miGraph vs.MISVM 0.000324 0.021391 0.017826 0.0 13 MiBoost vs.Bagging 0.000324 0.021391 0.017826 0.0 14 MiWrapper vs.Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs.Bagging 0.000324 0.021391 0.017826 0.0 16 MiBoost vs.MISMO 0.00324 0.021391 0.017826 0.0 17 MiWrapper vs.MISMO 0.000324 0.021391 0.017826 0.0 17 MiWrapper vs.MISMO 0.000832 0.054889 0.042414 0.0 17 MiWrapper vs.MISMO 0.000832 0.054889 0.042414 0.0 18 MiSMO vs.SimpleMI 0.000832 0.054889 0.042414 0.0 18 MiSMO vs.SimpleMI 0.000832 0.054889 0.042414 0.0 19 MiBoost vs.Stacking 0.000911 0.060113 0.043719 0.0 11 SimpleMI vs.Stacking 0.000911 0.060113 0.043719 0.0 11 SimpleMI vs.Stacking 0.000911 0.060113 0.043719 0.0 12 SimpleMI vs.Stacking 0.000911 0.060113 0.043719 0.0 12 MiRSVM vs.MIDD 0.001692 0.111699 0.076158 0.0 12 MiRSVM vs.MIOptimalBall 0.002588 0.170785 0.113856 0.1 125 MiSVM vs.Bagging 0.004949 0.326617 0.207847 0.1 125 MiSVM vs.Bagging 0.004949 0.326617 0.207847 0.1 126 MiSVM vs.Stacking 0.011346 0.748856 0.453852 0.4 125 MiSVM vs.Stacking 0.011346 0.748856 0.453852 0.4 129 MiBoost vs.MIDD 0.021224 1.400761 0.806499 0.7 13 MiDD vs.MiWrapper 0.021224 1.400761 0.806499 0.7 13 MiDD vs.SimpleMI 0.021224 1.400761 0.806499 0.7 | 00652 |
| 10 MIWrapper vs .TLC 0.000198 0.013054 0.011472 0.0 11 SimpleMI vs .TLC 0.000198 0.013054 0.011472 0.0 12 miGraph vs .MISVM 0.000324 0.021391 0.017826 0.0 13 MIBoost vs .Bagging 0.000324 0.021391 0.017826 0.0 14 MIWrapper vs .Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs .Bagging 0.000324 0.021391 0.017826 0.0 16 MIBoost vs .MISMO 0.000832 0.054889 0.042414 0.0 17 MIWrapper vs .MISMO 0.000832 0.054889 0.042414 0.0 18 MISMO vs .SimpleMI 0.000832 0.054889 0.042414 0.0 19 MIBoost vs .Stacking 0.000911 0.060113 0.043719 0.0 20 MIWrapper vs .Stacking 0.000911 0.060113 0.043719 0.0 21 SimpleMI vs .MIDD 0.001692 0.111699 | 02517 |
| 11 SimpleMI vs .TLC 0.000198 0.013054 0.011472 0.0 12 miGraph vs .MISVM 0.000324 0.021391 0.017826 0.0 13 MIBoost vs .Bagging 0.000324 0.021391 0.017826 0.0 14 MIWrapper vs .Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs .Bagging 0.000324 0.021391 0.017826 0.0 16 MIBoost vs .MISMO 0.000832 0.054889 0.042414 0.0 17 MIWrapper vs .MISMO 0.000832 0.054889 0.042414 0.0 18 MISMO vs .SimpleMI 0.000832 0.054889 0.042414 0.0 19 MIBoost vs .Stacking 0.000911 0.060113 0.043719 0.0 20 MIWrapper vs .Stacking 0.000911 0.060113 0.043719 0.0 21 SimpleMI vs .Stacking 0.000911 0.060113 0.043719 0.0 22 MIRSVM vs .MIDD 0.001692 0.111699 | 10879 |
| 12 miGraph vs .MISVM 0.000324 0.021391 0.017826 0.0 13 MIBoost vs .Bagging 0.000324 0.021391 0.017826 0.0 14 MIWrapper vs .Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs .Bagging 0.000324 0.021391 0.017826 0.0 16 MIBoost vs .MISMO 0.000832 0.054889 0.042414 0.0 17 MIWrapper vs .MISMO 0.000832 0.054889 0.042414 0.0 18 MISMO vs .SimpleMI 0.000832 0.054889 0.042414 0.0 19 MIBoost vs .Stacking 0.000911 0.060113 0.043719 0.0 20 MIWrapper vs .Stacking 0.000911 0.060113 0.043719 0.0 21 SimpleMI vs .Stacking 0.000911 0.060113 0.043719 0.0 22 MIRSVM vs .MIDD 0.001692 0.111699 0.076158 0.0 23 miGraph vs .MIOptimalBall 0.002588 0.170785< | 10879 |
| 13 MIBoost vs .Bagging 0.000324 0.021391 0.017826 0.0 14 MIWrapper vs .Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs .Bagging 0.000324 0.021391 0.017826 0.0 16 MIBoost vs .MISMO 0.000832 0.054889 0.042414 0.0 17 MIWrapper vs .MISMO 0.000832 0.054889 0.042414 0.0 18 MISMO vs .SimpleMI 0.000832 0.054889 0.042414 0.0 19 MIBoost vs .Stacking 0.000911 0.060113 0.043719 0.0 20 MIWrapper vs .Stacking 0.000911 0.060113 0.043719 0.0 21 SimpleMI vs .Stacking 0.000911 0.060113 0.043719 0.0 22 MIRSVM vs .MIDD 0.001692 0.111699 0.076158 0.0 23 miGraph vs .MIOptimalBall 0.002588 0.170785 0.113856 0.1 24 MISVM vs .Bagging 0.004949 0.326617< | 17826 |
| 14 MIWrapper vs .Bagging 0.000324 0.021391 0.017826 0.0 15 SimpleMI vs .Bagging 0.000324 0.021391 0.017826 0.0 16 MIBoost vs .MISMO 0.000832 0.054889 0.042414 0.0 17 MIWrapper vs .MISMO 0.000832 0.054889 0.042414 0.0 18 MISMO vs .SimpleMI 0.000832 0.054889 0.042414 0.0 19 MIBoost vs .Stacking 0.000911 0.060113 0.043719 0.0 20 MIWrapper vs .Stacking 0.000911 0.060113 0.043719 0.0 21 SimpleMI vs .Stacking 0.000911 0.060113 0.043719 0.0 22 MIRSVM vs .MIDD 0.001692 0.111699 0.076158 0.0 23 miGraph vs .MIOptimalBall 0.002588 0.170785 0.113856 0.1 24 MISVM vs .Bagging 0.004949 0.326617 0.207847 0.1 25 MISVM vs .MISVM 0.010553 0.696489 | 17826 |
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| 19 MIBoost vs .Stacking 0.000911 0.060113 0.043719 0.0 20 MIWrapper vs .Stacking 0.000911 0.060113 0.043719 0.0 21 SimpleMI vs .Stacking 0.000911 0.060113 0.043719 0.0 22 MIRSVM vs .MIDD 0.001692 0.111699 0.076158 0.0 23 miGraph vs .MIOptimalBall 0.002588 0.170785 0.113856 0.1 24 MISVM vs .TLC 0.003315 0.218766 0.142529 0.1 25 MISVM vs .Bagging 0.004949 0.326617 0.207847 0.1 26 MISMO vs .MISVM 0.010553 0.696489 0.432667 0.4 27 MISVM vs .Stacking 0.011346 0.748856 0.453852 0.4 28 MIOptimalBall vs .TLC 0.018542 1.223752 0.723126 0.7 29 MIBoost vs .MIDD 0.021224 1.400761 0.806499 0.7 30 MIDD vs .MIWrapper 0.021224 1.400761 | 38256 |
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| 27 MISVM vs .Stacking 0.011346 0.748856 0.453852 0.4 28 MIOptimalBall vs .TLC 0.018542 1.223752 0.723126 0.7 29 MIBoost vs .MIDD 0.021224 1.400761 0.806499 0.7 30 MIDD vs .MIWrapper 0.021224 1.400761 0.806499 0.7 31 MIDD vs .SimpleMI 0.021224 1.400761 0.806499 0.7 | 93001 |
| 28 MIOptimalBall vs .TLC 0.018542 1.223752 0.723126 0.7 29 MIBoost vs .MIDD 0.021224 1.400761 0.806499 0.7 30 MIDD vs .MIWrapper 0.021224 1.400761 0.806499 0.7 31 MIDD vs .SimpleMI 0.021224 1.400761 0.806499 0.7 | 42506 |
| 29 MÎBoost vs .MIDD 0.021224 1.400761 0.806499 0.7 30 MIDD vs .MIWrapper 0.021224 1.400761 0.806499 0.7 31 MIDD vs .SimpleMI 0.021224 1.400761 0.806499 0.7 | 23126 |
| 30 MIDD vs .MIWrapper 0.021224 1.400761 0.806499 0.7 31 MIDD vs .SimpleMI 0.021224 1.400761 0.806499 0.7 | 85275 |
| 31 MIDD vs .SimpleMI 0.021224 1.400761 0.806499 0.7 | 85275 |
| | 85275 |
| | 79877 |
| 33 MIRSVM vs .Stacking 0.033441 2.207082 1.136982 1.1 | 36982 |
| 34 MIRSVM vs .MISMO 0.035603 2.349789 1.174895 1.1 | 36982 |
| | 74381 |
| | 96869 |
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| | 83687 |
| | 75846 05973 |
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| 46 MIRSVM vs .miGraph 0.287611 18.982347 6.039838 6.0 | 39838 |
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| 66 MIWrapper vs .SimpleMI 1 66 6.48792 6.4 | 8792 |

Table 4: Adjusted p-values