Table 1: Results of wall following dataset

| Algorithm | k | r | aggregation | Level of missing values | auc | stddev | Cross validation |
|---|---|---|---|---|---|---|---|
| f | (3, 5) | 2.0 | A1 | | 0.908813 | 0.047011 | 10 |
| f | (3, 5) | 5.0 | A1 | | 0.908813 | 0.047011 | 10 |
| f | (3, 5) | 10.0 | A1 | | 0.908813 | 0.047011 | 10 |
| f | (3, 5) | 2.0 | A2 | | 0.908813 | 0.047011 | 10 |
| f | (3, 5) | 5.0 | A2 | | 0.908813 | 0.047011 | 10 |
| f | (3, 5) | 10.0 | A2 | | 0.908813 | 0.047011 | 10 |
| f | (3, 5) | 2.0 | A7 | | 0.908813 | 0.047011 | 10 |
| f | (3, 5) | 5.0 | A7 | | 0.908813 | 0.047011 | 10 |
| f | (3, 5) | 10.0 | A7 | | 0.908813 | 0.047011 | 10 |
| m | (3, 5) | | | | 0.908813 | 0.047011 | 10 |
| f | (3, 5) | 2.0 | A3 | | 0.908802 | 0.046933 | 10 |
| f | (3, 5) | 5.0 | A3 | | 0.908802 | 0.046933 | 10 |
| f | (3, 5) | 10.0 | A3 | | 0.908802 | 0.046933 | 10 |
| f | (3, 5) | 2.0 | A6 | | 0.908802 | 0.047029 | 10 |
| f | (3, 5) | 5.0 | A6 | | 0.908802 | 0.047029 | 10 |
| f | (3, 5) | 10.0 | A6 | | 0.908802 | 0.047029 | 10 |
| f | (3, 5) | 2.0 | A5 | | 0.908771 | 0.046985 | 10 |
| f | (3, 5) | 5.0 | A5 | | 0.908771 | 0.046985 | 10 |
| f | (3, 5) | 10.0 | A5 | | 0.908771 | 0.046985 | 10 |
| f | (3, 5) | 2.0 | A4 | | 0.908760 | 0.047002 | 10 |
| f | (3, 5) | 5.0 | A4 | | 0.908760 | 0.047002 | 10 |
| f | (3, 5) | 10.0 | A4 | | 0.908760 | 0.047002 | 10 |
| f | (3, 5) | 2.0 | A10 | | 0.908760 | 0.047002 | 10 |
| f | (3, 5) | 5.0 | A10 | | 0.908760 | 0.047002 | 10 |
| f | (3, 5) | 10.0 | A10 | | 0.908760 | 0.047002 | 10 |
| f | (3, 5) | 2.0 | A8 | | 0.908740 | 0.047037 | 10 |
| f | (3, 5) | 5.0 | A8 | | 0.908740 | 0.047037 | 10 |
| f | (3, 5) | 10.0 | A8 | | 0.908740 | 0.047037 | 10 |
| f | (3, 5) | 2.0 | A9 | | 0.908698 | 0.046641 | 10 |
| f | (3, 5) | 5.0 | A9 | | 0.908698 | 0.046641 | 10 |
| f | (3, 5) | 10.0 | A9 | | 0.908698 | 0.046641 | 10 |
| f | (2, 4) | 2.0 | A3 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 5.0 | A3 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 10.0 | A3 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 2.0 | A4 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 5.0 | A4 | 0.0 | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 10.0 | A4 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 2.0 | A8 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 5.0 | A8 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 10.0 | A8 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 2.0 | A9 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 5.0 | A9 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 10.0 | A9 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 2.0 | A10 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 5.0 | A10 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 10.0 | A10 | | 0.897656 | 0.050738 | 10 |
| f | (2, 4) | 2.0 | A1 | | 0.897635 | 0.050735 | 10 |
| f | (2, 4) | 5.0 | A1 | | 0.897635 | 0.050735 | 10 |
| f | (2, 4) | 10.0 | A1 | | 0.897635 | 0.050735 | 10 |
| f | (2, 4) | 2.0 | A2 | | 0.897635 | 0.050735 | 10 |
| f | (2, 4) | 5.0 | A2 | | 0.897635 | 0.050735 | 10 |
| f | (2, 4) | 10.0 | A2 | | 0.897635 | 0.050735 | 10 |
| f | (2, 4) | 2.0 | A7 | | 0.897635 | 0.050735 | 10 |
| f | (2, 4) | 5.0 | A7 | | 0.897635 | 0.050735 | 10 |
| f | (2, 4) | 10.0 | A7 | | 0.897635 | 0.050735 | 10 |
| m | (2, 4) | | | | 0.897635 | 0.050735 | 10 |
| f | (2, 4) | 2.0 | A5 | | 0.897615 | 0.050818 | 10 |
| f | (2, 4) | 5.0 | A5 | | 0.897615 | 0.050818 | 10 |
| f | (2, 4) | 10.0 | A5 | | 0.897615 | 0.050818 | 10 |
| f | (2, 4) | 2.0 | A6 | | 0.897573 | 0.050796 | 10 |
| f | (2, 4) | 5.0 | A6 | | 0.897573 | 0.050796 | 10 |

| Algorithm | k | r | aggregation | Level of missing values | auc | stddev | Cross validation |
|---|---|---|---|---|---|---|---|
| f | (2, 4) | 10.0 | A6 | | 0.897573 | 0.050796 | 10 |
| f | (3, 5) | 10.0 | A5 | | 0.915354 | 0.044214 | 10 |
| f | (3, 5) | 10.0 | A4 | | 0.913281 | 0.048329 | 10 |
| f | (3, 5) | 5.0 | A4 | | 0.912979 | 0.048713 | 10 |
| f | (3, 5) | 5.0 | A1 | | 0.912375 | 0.049196 | 10 |
| f | (3, 5) | 5.0 | A6 | | 0.911583 | 0.050078 | 10 |
| f | (3, 5) | 5.0 | A7 | | 0.911385 | 0.049110 | 10 |
| f | (3, 5) | 5.0 | A8 | | 0.910323 | 0.048252 | 10 |
| f | (3, 5) | 10.0 | A8 | | 0.909458 | 0.044884 | 10 |
| f | (3, 5) | 2.0 | A7 | | 0.908604 | 0.046076 | 10 |
| f | (3, 5) | 5.0 | A3 | | 0.908188 | 0.048843 | 10 |
| f | (3, 5) | 2.0 | A5 | | 0.908042 | 0.048450 | 10 |
| f | (3, 5) | 5.0 | A5 | | 0.907688 | 0.044270 | 10 |
| f | (3, 5) | 2.0 | A8 | | 0.907594 | 0.047990 | 10 |
| f | (3, 5) | 10.0 | A9 | | 0.906937 | 0.045967 | 10 |
| f | (3, 5) | 2.0 | A9 | | 0.906552 | 0.045597 | 10 |
| f | (3, 5) | 2.0 | A1 | | 0.906542 | 0.057466 | 10 |
| f | (3, 5) | 10.0 | A7 | | 0.906510 | 0.045468 | 10 |
| f | (3, 5) | 2.0 | A2 | | 0.906469 | 0.044837 | 10 |
| f | (3, 5) | 10.0 | A10 | | 0.906427 | 0.047766 | 10 |
| f | (3, 5) | 2.0 | A10 | | 0.906156 | 0.048318 | 10 |
| f | (3, 5) | 2.0 | A3 | | 0.906083 | 0.047985 | 10 |
| f | (2, 4) | 5.0 | A4 | | 0.905583 | 0.048725 | 10 |
| f | (3, 5) | 10.0 | A1 | | 0.905417 | 0.048310 | 10 |
| f | (3, 5) | 10.0 | A3 | | 0.905323 | 0.043969 | 10 |
| f | (3, 5) | 2.0 | A4 | | 0.905229 | 0.046717 | 10 |
| f | (3, 5) | 2.0 | A6 | | 0.904708 | 0.049441 | 10 |
| f | (3, 5) | 5.0 | A9 | | 0.904635 | 0.059621 | 10 |
| f | (3, 5) | 10.0 | A6 | | 0.903521 | 0.047524 | 10 |
| f | (3, 5) | 5.0 | A2 | | 0.902385 | 0.045510 | 10 |
| f | (2, 4) | 2.0 | A8 | | 0.902240 | 0.048583 | 10 |
| m | (3, 5) | | | | 0.902167 | 0.048768 | 10 |
| f | (3, 5) | 10.0 | A2 | **0.01** | 0.901583 | 0.058983 | 10 |
| f | (2, 4) | 5.0 | A3 | | 0.901490 | 0.050166 | 10 |
| f | (2, 4) | 5.0 | A1 | | 0.900281 | 0.050332 | 10 |
| f | (2, 4) | 2.0 | A6 | | 0.899865 | 0.042597 | 10 |
| f | (2, 4) | 10.0 | A1 | | 0.899792 | 0.050939 | 10 |
| f | (3, 5) | 5.0 | A10 | | 0.899635 | 0.052337 | 10 |
| f | (2, 4) | 10.0 | A6 | | 0.899365 | 0.050036 | 10 |
| f | (2, 4) | 2.0 | A5 | | 0.899115 | 0.048436 | 10 |
| f | (2, 4) | 10.0 | A7 | | 0.899052 | 0.046794 | 10 |
| f | (2, 4) | 10.0 | A3 | | 0.898823 | 0.050576 | 10 |
| f | (2, 4) | 5.0 | A2 | | 0.898146 | 0.048904 | 10 |
| f | (2, 4) | 2.0 | A7 | | 0.897906 | 0.051592 | 10 |
| f | (2, 4) | 10.0 | A5 | | 0.897510 | 0.047844 | 10 |
| f | (2, 4) | 5.0 | A10 | | 0.897260 | 0.050109 | 10 |
| f | (2, 4) | 10.0 | A8 | | 0.897250 | 0.050324 | 10 |
| f | (2, 4) | 10.0 | A2 | | 0.897156 | 0.049487 | 10 |
| f | (2, 4) | 5.0 | A5 | | 0.897115 | 0.050294 | 10 |
| f | (2, 4) | 10.0 | A4 | | 0.897042 | 0.050923 | 10 |
| f | (2, 4) | 5.0 | A7 | | 0.896948 | 0.048978 | 10 |
| f | (2, 4) | 2.0 | A9 | | 0.896823 | 0.048534 | 10 |
| f | (2, 4) | 2.0 | A10 | | 0.896760 | 0.050982 | 10 |
| f | (2, 4) | 2.0 | A2 | | 0.896312 | 0.049503 | 10 |
| f | (2, 4) | 5.0 | A6 | | 0.896240 | 0.050181 | 10 |
| f | (2, 4) | 5.0 | A8 | | 0.895604 | 0.050321 | 10 |
| f | (2, 4) | 5.0 | A9 | | 0.895167 | 0.047236 | 10 |
| f | (2, 4) | 10.0 | A9 | | 0.894406 | 0.048577 | 10 |
| f | (2, 4) | 2.0 | A1 | | 0.893510 | 0.054254 | 10 |
| f | (2, 4) | 10.0 | A10 | | 0.892469 | 0.053432 | 10 |
| f | (2, 4) | 2.0 | A4 | | 0.890156 | 0.054972 | 10 |
| f | (2, 4) | 2.0 | A3 | | 0.889208 | 0.052323 | 10 |

| Algorithm | k | r | aggregation | Level of missing values | auc | stddev | Cross validation |
|---|---|---|---|---|---|---|---|
| m | (2, 4) | | | | 0.887344 | 0.052722 | 10 |
| f | (3, 5) | 10.0 | A2 | | 0.915667 | 0.048307 | 10 |
| f | (3, 5) | 5.0 | A5 | | 0.910042 | 0.050360 | 10 |
| f | (3, 5) | 5.0 | A9 | | 0.909948 | 0.050305 | 10 |
| f | (2, 4) | 5.0 | A2 | | 0.908677 | 0.049131 | 10 |
| f | (2, 4) | 5.0 | A9 | | 0.907125 | 0.049470 | 10 |
| f | (3, 5) | 5.0 | A10 | | 0.906792 | 0.058059 | 10 |
| f | (3, 5) | 10.0 | A1 | | 0.906333 | 0.045326 | 10 |
| f | (3, 5) | 5.0 | A3 | | 0.906094 | 0.046446 | 10 |
| f | (3, 5) | 5.0 | A8 | | 0.906021 | 0.041122 | 10 |
| f | (3, 5) | 10.0 | A5 | | 0.905875 | 0.044103 | 10 |
| f | (2, 4) | 10.0 | A3 | | 0.905354 | 0.048654 | 10 |
| f | (3, 5) | 5.0 | A7 | | 0.905156 | 0.050782 | 10 |
| f | (3, 5) | 10.0 | A3 | | 0.904885 | 0.053838 | 10 |
| f | (3, 5) | 2.0 | A2 | | 0.904573 | 0.044007 | 10 |
| f | (3, 5) | 10.0 | A4 | | 0.904052 | 0.044029 | 10 |
| f | (3, 5) | 2.0 | A3 | | 0.903563 | 0.052409 | 10 |
| f | (2, 4) | 10.0 | A7 | | 0.903552 | 0.045828 | 10 |
| f | (2, 4) | 10.0 | A2 | | 0.903323 | 0.047990 | 10 |
| f | (3, 5) | 5.0 | A2 | | 0.903042 | 0.049118 | 10 |
| f | (2, 4) | 5.0 | A5 | | 0.902948 | 0.045973 | 10 |
| f | (2, 4) | 10.0 | A8 | | 0.900719 | 0.051580 | 10 |
| f | (3, 5) | 10.0 | A7 | | 0.900573 | 0.050099 | 10 |
| f | (3, 5) | 5.0 | A4 | | 0.900521 | 0.050983 | 10 |
| f | (3, 5) | 2.0 | A10 | | 0.900198 | 0.054254 | 10 |
| f | (2, 4) | 2.0 | A7 | | 0.899750 | 0.050557 | 10 |
| f | (3, 5) | 2.0 | A4 | | 0.899292 | 0.042962 | 10 |
| f | (3, 5) | 2.0 | A9 | | 0.898854 | 0.053385 | 10 |
| f | (3, 5) | 5.0 | A6 | | 0.898125 | 0.055081 | 10 |
| f | (2, 4) | 5.0 | A3 | | 0.898010 | 0.049747 | 10 |
| f | (3, 5) | 5.0 | A1 | | 0.897958 | 0.057735 | 10 |
| f | (3, 5) | 2.0 | A5 | | 0.897677 | 0.056596 | 10 |
| f | (2, 4) | 5.0 | A10 | | 0.897625 | 0.052028 | 10 |
| f | (2, 4) | 5.0 | A1 | **0.05** | 0.897219 | 0.043471 | 10 |
| f | (3, 5) | 10.0 | A10 | | 0.896927 | 0.050635 | 10 |
| f | (3, 5) | 10.0 | A6 | | 0.896479 | 0.058056 | 10 |
| f | (3, 5) | 2.0 | A7 | | 0.896417 | 0.047441 | 10 |
| f | (3, 5) | 10.0 | A9 | | 0.896406 | 0.045948 | 10 |
| f | (3, 5) | 10.0 | A8 | | 0.896208 | 0.053297 | 10 |
| f | (2, 4) | 2.0 | A6 | | 0.896104 | 0.049330 | 10 |
| f | (2, 4) | 5.0 | A6 | | 0.895323 | 0.050461 | 10 |
| f | (2, 4) | 10.0 | A4 | | 0.894521 | 0.054776 | 10 |
| f | (2, 4) | 5.0 | A7 | | 0.894094 | 0.047674 | 10 |
| f | (2, 4) | 10.0 | A10 | | 0.893688 | 0.044243 | 10 |
| f | (3, 5) | 2.0 | A8 | | 0.893208 | 0.059780 | 10 |
| f | (2, 4) | 2.0 | A3 | | 0.893177 | 0.049677 | 10 |
| f | (2, 4) | 2.0 | A2 | | 0.890646 | 0.055726 | 10 |
| f | (2, 4) | 2.0 | A5 | | 0.889813 | 0.055503 | 10 |
| f | (2, 4) | 5.0 | A4 | | 0.889760 | 0.054449 | 10 |
| f | (2, 4) | 10.0 | A9 | | 0.889687 | 0.062005 | 10 |
| f | (2, 4) | 10.0 | A1 | | 0.889427 | 0.052295 | 10 |
| f | (2, 4) | 10.0 | A5 | | 0.888250 | 0.057937 | 10 |
| f | (3, 5) | 2.0 | A1 | | 0.886260 | 0.050458 | 10 |
| f | (2, 4) | 2.0 | A10 | | 0.884917 | 0.060062 | 10 |
| f | (2, 4) | 2.0 | A1 | | 0.884198 | 0.051921 | 10 |
| f | (3, 5) | 2.0 | A6 | | 0.883260 | 0.053764 | 10 |
| f | (2, 4) | 2.0 | A8 | | 0.882865 | 0.055641 | 10 |
| f | (2, 4) | 2.0 | A9 | | 0.881271 | 0.038077 | 10 |
| f | (2, 4) | 5.0 | A8 | | 0.881125 | 0.042481 | 10 |
| f | (2, 4) | 10.0 | A6 | | 0.880698 | 0.055334 | 10 |
| f | (2, 4) | 2.0 | A4 | | 0.879854 | 0.065215 | 10 |
| m | (3, 5) | | | | 0.859615 | 0.048010 | 10 |

| Algorithm | k | r | aggregation | Level of missing values | auc | stddev | Cross validation |
|---|---|---|---|---|---|---|---|
| m | (2, 4) | | | | 0.854385 | 0.039346 | 10 |
| f | (3, 5) | 10.0 | A3 | | 0.913490 | 0.047523 | 10 |
| f | (3, 5) | 5.0 | A8 | | 0.911792 | 0.054573 | 10 |
| f | (3, 5) | 5.0 | A10 | | 0.907719 | 0.041479 | 10 |
| f | (3, 5) | 10.0 | A6 | | 0.906021 | 0.058640 | 10 |
| f | (2, 4) | 10.0 | A1 | | 0.905115 | 0.038586 | 10 |
| f | (3, 5) | 10.0 | A9 | | 0.903854 | 0.044967 | 10 |
| f | (2, 4) | 5.0 | A7 | | 0.903677 | 0.055432 | 10 |
| f | (3, 5) | 10.0 | A2 | | 0.902281 | 0.037196 | 10 |
| f | (3, 5) | 5.0 | A1 | | 0.901990 | 0.053311 | 10 |
| f | (3, 5) | 10.0 | A10 | | 0.900594 | 0.052158 | 10 |
| f | (2, 4) | 10.0 | A5 | | 0.899312 | 0.058555 | 10 |
| f | (3, 5) | 5.0 | A7 | | 0.899240 | 0.061343 | 10 |
| f | (3, 5) | 5.0 | A2 | | 0.899208 | 0.052760 | 10 |
| f | (3, 5) | 10.0 | A1 | | 0.897885 | 0.049690 | 10 |
| f | (2, 4) | 10.0 | A6 | | 0.897844 | 0.049050 | 10 |
| f | (3, 5) | 10.0 | A8 | | 0.897573 | 0.044156 | 10 |
| f | (3, 5) | 5.0 | A6 | | 0.897323 | 0.048620 | 10 |
| f | (2, 4) | 10.0 | A8 | | 0.896615 | 0.048138 | 10 |
| f | (3, 5) | 2.0 | A6 | | 0.895542 | 0.049753 | 10 |
| f | (2, 4) | 10.0 | A2 | | 0.895083 | 0.060164 | 10 |
| f | (3, 5) | 5.0 | A9 | | 0.894708 | 0.064859 | 10 |
| f | (2, 4) | 10.0 | A4 | | 0.894615 | 0.056668 | 10 |
| f | (3, 5) | 2.0 | A7 | | 0.894594 | 0.054292 | 10 |
| f | (2, 4) | 10.0 | A3 | | 0.894052 | 0.049114 | 10 |
| f | (3, 5) | 5.0 | A4 | | 0.893865 | 0.050712 | 10 |
| f | (2, 4) | 5.0 | A5 | | 0.893437 | 0.060724 | 10 |
| f | (3, 5) | 2.0 | A4 | | 0.893208 | 0.057975 | 10 |
| f | (3, 5) | 2.0 | A10 | | 0.892969 | 0.068655 | 10 |
| f | (2, 4) | 2.0 | A8 | | 0.892521 | 0.042345 | 10 |
| f | (2, 4) | 5.0 | A1 | | 0.892094 | 0.042696 | 10 |
| f | (2, 4) | 10.0 | A10 | | 0.892031 | 0.053842 | 10 |
| f | (2, 4) | 5.0 | A8 | | 0.891594 | 0.051768 | 10 |
| f | (2, 4) | 5.0 | A6 | | 0.890427 | 0.045223 | 10 |
| f | (2, 4) | 5.0 | A10 | | 0.889823 | 0.047127 | 10 |
| f | (2, 4) | 10.0 | A7 | **0.1** | 0.889531 | 0.045889 | 10 |
| f | (2, 4) | 5.0 | A3 | | 0.888677 | 0.059202 | 10 |
| f | (2, 4) | 2.0 | A9 | | 0.888406 | 0.040975 | 10 |
| f | (3, 5) | 5.0 | A3 | | 0.888010 | 0.052440 | 10 |
| f | (3, 5) | 2.0 | A3 | | 0.887646 | 0.048372 | 10 |
| f | (2, 4) | 10.0 | A9 | | 0.887458 | 0.058706 | 10 |
| f | (2, 4) | 5.0 | A4 | | 0.886937 | 0.054059 | 10 |
| f | (3, 5) | 2.0 | A5 | | 0.886677 | 0.051046 | 10 |
| f | (3, 5) | 10.0 | A7 | | 0.886417 | 0.058443 | 10 |
| f | (3, 5) | 2.0 | A9 | | 0.885260 | 0.049574 | 10 |
| f | (3, 5) | 5.0 | A5 | | 0.885104 | 0.044715 | 10 |
| f | (2, 4) | 5.0 | A2 | | 0.884125 | 0.059839 | 10 |
| f | (3, 5) | 2.0 | A2 | | 0.883906 | 0.058424 | 10 |
| f | (3, 5) | 2.0 | A8 | | 0.882552 | 0.046765 | 10 |
| f | (2, 4) | 2.0 | A4 | | 0.881396 | 0.065085 | 10 |
| f | (3, 5) | 10.0 | A4 | | 0.881052 | 0.068380 | 10 |
| f | (2, 4) | 2.0 | A3 | | 0.878740 | 0.054778 | 10 |
| f | (3, 5) | 2.0 | A1 | | 0.875792 | 0.057873 | 10 |
| f | (2, 4) | 2.0 | A1 | | 0.875448 | 0.062452 | 10 |
| f | (2, 4) | 2.0 | A6 | | 0.874823 | 0.051862 | 10 |
| f | (2, 4) | 2.0 | A7 | | 0.874042 | 0.055753 | 10 |
| f | (3, 5) | 10.0 | A5 | | 0.873771 | 0.056013 | 10 |
| f | (2, 4) | 5.0 | A9 | | 0.873708 | 0.055641 | 10 |
| f | (2, 4) | 2.0 | A5 | | 0.868594 | 0.049729 | 10 |
| f | (2, 4) | 2.0 | A2 | | 0.864562 | 0.051953 | 10 |
| f | (2, 4) | 2.0 | A10 | | 0.856354 | 0.048134 | 10 |
| m | (3, 5) | | | | 0.816240 | 0.046134 | 10 |

| Algorithm | k | r | aggregation | Level of missing values | auc | stddev | Cross validation |
|---|---|---|---|---|---|---|---|
| m | (2, 4) | | | | 0.800844 | 0.033779 | 10 |
| f | (3, 5) | 10.0 | A1 | | 0.901802 | 0.051567 | 10 |
| f | (2, 4) | 10.0 | A6 | | 0.901208 | 0.035520 | 10 |
| f | (3, 5) | 10.0 | A2 | | 0.900563 | 0.052091 | 10 |
| f | (2, 4) | 10.0 | A2 | | 0.900531 | 0.040196 | 10 |
| f | (3, 5) | 5.0 | A1 | | 0.896740 | 0.040727 | 10 |
| f | (3, 5) | 10.0 | A6 | | 0.896646 | 0.060009 | 10 |
| f | (2, 4) | 10.0 | A10 | | 0.896177 | 0.037185 | 10 |
| f | (3, 5) | 10.0 | A4 | | 0.894896 | 0.043272 | 10 |
| f | (2, 4) | 10.0 | A1 | | 0.891167 | 0.048789 | 10 |
| f | (3, 5) | 10.0 | A7 | | 0.889854 | 0.054077 | 10 |
| f | (2, 4) | 5.0 | A7 | | 0.889104 | 0.048780 | 10 |
| f | (3, 5) | 5.0 | A2 | | 0.888792 | 0.049731 | 10 |
| f | (2, 4) | 10.0 | A3 | | 0.888250 | 0.052994 | 10 |
| f | (3, 5) | 10.0 | A10 | | 0.887958 | 0.054839 | 10 |
| f | (3, 5) | 5.0 | A9 | | 0.884646 | 0.050758 | 10 |
| f | (2, 4) | 10.0 | A4 | | 0.883594 | 0.047859 | 10 |
| f | (3, 5) | 5.0 | A5 | | 0.883271 | 0.033196 | 10 |
| f | (3, 5) | 5.0 | A10 | | 0.882313 | 0.060402 | 10 |
| f | (2, 4) | 5.0 | A2 | | 0.882010 | 0.058051 | 10 |
| f | (2, 4) | 10.0 | A9 | | 0.881125 | 0.035018 | 10 |
| f | (2, 4) | 10.0 | A5 | | 0.881063 | 0.042250 | 10 |
| f | (2, 4) | 5.0 | A10 | | 0.879667 | 0.043258 | 10 |
| f | (2, 4) | 5.0 | A9 | | 0.879656 | 0.037960 | 10 |
| f | (2, 4) | 10.0 | A8 | | 0.879594 | 0.040318 | 10 |
| f | (2, 4) | 5.0 | A1 | | 0.877625 | 0.065364 | 10 |
| f | (3, 5) | 10.0 | A5 | | 0.874979 | 0.051234 | 10 |
| f | (2, 4) | 5.0 | A6 | 0.2 | 0.874042 | 0.051784 | 10 |
| f | (3, 5) | 5.0 | A6 | | 0.872729 | 0.057705 | 10 |
| f | (3, 5) | 5.0 | A3 | | 0.871646 | 0.059598 | 10 |
| f | (3, 5) | 10.0 | A3 | | 0.870958 | 0.044283 | 10 |
| f | (3, 5) | 5.0 | A7 | | 0.870562 | 0.040183 | 10 |
| f | (2, 4) | 5.0 | A5 | | 0.869542 | 0.050395 | 10 |
| f | (2, 4) | 10.0 | A7 | | 0.869500 | 0.050904 | 10 |
| f | (3, 5) | 5.0 | A8 | | 0.869438 | 0.056833 | 10 |
| f | (3, 5) | 2.0 | A10 | | 0.868156 | 0.048560 | 10 |
| f | (2, 4) | 5.0 | A4 | | 0.867917 | 0.048170 | 10 |
| f | (3, 5) | 10.0 | A9 | | 0.867812 | 0.052050 | 10 |
| f | (3, 5) | 2.0 | A4 | | 0.867750 | 0.060999 | 10 |
| f | (3, 5) | 2.0 | A1 | | 0.863969 | 0.052967 | 10 |
| f | (2, 4) | 2.0 | A8 | | 0.861771 | 0.072044 | 10 |
| f | (3, 5) | 5.0 | A4 | | 0.861708 | 0.054363 | 10 |
| f | (3, 5) | 2.0 | A2 | | 0.861302 | 0.043438 | 10 |
| f | (2, 4) | 2.0 | A9 | | 0.860563 | 0.041012 | 10 |
| f | (3, 5) | 10.0 | A8 | | 0.860031 | 0.057657 | 10 |
| f | (2, 4) | 2.0 | A2 | | 0.856125 | 0.047909 | 10 |
| f | (3, 5) | 2.0 | A7 | | 0.855167 | 0.057659 | 10 |
| f | (3, 5) | 2.0 | A9 | | 0.854583 | 0.042866 | 10 |
| f | (3, 5) | 2.0 | A5 | | 0.853542 | 0.057337 | 10 |
| f | (2, 4) | 2.0 | A5 | | 0.853271 | 0.058357 | 10 |
| f | (2, 4) | 5.0 | A3 | | 0.852229 | 0.064438 | 10 |
| f | (3, 5) | 2.0 | A6 | | 0.850760 | 0.051476 | 10 |
| f | (3, 5) | 2.0 | A8 | | 0.850042 | 0.050696 | 10 |
| f | (2, 4) | 5.0 | A8 | | 0.849344 | 0.069193 | 10 |
| f | (2, 4) | 2.0 | A3 | | 0.848646 | 0.052992 | 10 |
| f | (2, 4) | 2.0 | A1 | | 0.848458 | 0.029621 | 10 |
| f | (3, 5) | 2.0 | A3 | | 0.846354 | 0.047627 | 10 |
| f | (2, 4) | 2.0 | A7 | | 0.844021 | 0.043693 | 10 |
| f | (2, 4) | 2.0 | A10 | | 0.840479 | 0.051547 | 10 |
| f | (2, 4) | 2.0 | A6 | | 0.839542 | 0.053322 | 10 |
| f | (2, 4) | 2.0 | A4 | | 0.835448 | 0.045267 | 10 |
| m | (2, 4) | | | | 0.756604 | 0.044598 | 10 |

| Algorithm | k | r | aggregation | Level of missing values | auc | stddev | Cross validation |
|---|---|---|---|---|---|---|---|
| m | (3, 5) | | | | 0.734531 | 0.054796 | 10 |
| f | (3, 5) | 10.0 | A1 | | 0.876740 | 0.038540 | 10 |
| f | (3, 5) | 5.0 | A1 | | 0.876240 | 0.036040 | 10 |
| f | (2, 4) | 10.0 | A6 | | 0.871854 | 0.035797 | 10 |
| f | (2, 4) | 10.0 | A1 | | 0.870490 | 0.054669 | 10 |
| f | (2, 4) | 10.0 | A10 | | 0.866937 | 0.053072 | 10 |
| f | (2, 4) | 5.0 | A2 | | 0.865802 | 0.049614 | 10 |
| f | (2, 4) | 10.0 | A7 | | 0.864333 | 0.060555 | 10 |
| f | (3, 5) | 10.0 | A10 | | 0.862396 | 0.046762 | 10 |
| f | (3, 5) | 5.0 | A7 | | 0.861438 | 0.049707 | 10 |
| f | (3, 5) | 10.0 | A5 | | 0.860615 | 0.058308 | 10 |
| f | (3, 5) | 10.0 | A7 | | 0.859344 | 0.078095 | 10 |
| f | (2, 4) | 5.0 | A6 | | 0.857448 | 0.039000 | 10 |
| f | (3, 5) | 5.0 | A10 | | 0.856021 | 0.040065 | 10 |
| f | (2, 4) | 10.0 | A2 | | 0.856000 | 0.033612 | 10 |
| f | (3, 5) | 10.0 | A3 | | 0.855531 | 0.038562 | 10 |
| f | (2, 4) | 10.0 | A5 | | 0.854573 | 0.060996 | 10 |
| f | (2, 4) | 10.0 | A9 | | 0.853896 | 0.037480 | 10 |
| f | (3, 5) | 10.0 | A2 | | 0.852458 | 0.054034 | 10 |
| f | (3, 5) | 10.0 | A9 | | 0.852458 | 0.035892 | 10 |
| f | (2, 4) | 5.0 | A9 | | 0.850687 | 0.039957 | 10 |
| f | (3, 5) | 5.0 | A9 | | 0.849042 | 0.039482 | 10 |
| f | (3, 5) | 5.0 | A2 | | 0.848177 | 0.047889 | 10 |
| f | (2, 4) | 5.0 | A7 | | 0.847813 | 0.040070 | 10 |
| f | (2, 4) | 10.0 | A4 | | 0.847448 | 0.061848 | 10 |
| f | (3, 5) | 5.0 | A8 | | 0.845917 | 0.062577 | 10 |
| f | (3, 5) | 5.0 | A5 | | 0.844812 | 0.058346 | 10 |
| f | (2, 4) | 10.0 | A3 | | 0.844302 | 0.056529 | 10 |
| f | (2, 4) | 5.0 | A1 | | 0.844271 | 0.051370 | 10 |
| f | (2, 4) | 10.0 | A8 | | 0.843865 | 0.036943 | 10 |
| f | (2, 4) | 5.0 | A4 | **0.3** | 0.843323 | 0.053201 | 10 |
| f | (2, 4) | 5.0 | A3 | | 0.841292 | 0.058592 | 10 |
| f | (3, 5) | 5.0 | A6 | | 0.840615 | 0.060166 | 10 |
| f | (3, 5) | 5.0 | A3 | | 0.840312 | 0.061116 | 10 |
| f | (3, 5) | 5.0 | A4 | | 0.840229 | 0.044721 | 10 |
| f | (3, 5) | 10.0 | A6 | | 0.840062 | 0.056253 | 10 |
| f | (3, 5) | 10.0 | A8 | | 0.840010 | 0.045727 | 10 |
| f | (3, 5) | 10.0 | A4 | | 0.839729 | 0.055740 | 10 |
| f | (2, 4) | 5.0 | A5 | | 0.836656 | 0.072931 | 10 |
| f | (2, 4) | 2.0 | A1 | | 0.831781 | 0.041602 | 10 |
| f | (2, 4) | 5.0 | A8 | | 0.829000 | 0.065363 | 10 |
| f | (3, 5) | 2.0 | A6 | | 0.828917 | 0.041774 | 10 |
| f | (2, 4) | 2.0 | A6 | | 0.828615 | 0.052035 | 10 |
| f | (3, 5) | 2.0 | A3 | | 0.826156 | 0.045690 | 10 |
| f | (3, 5) | 2.0 | A2 | | 0.823490 | 0.037933 | 10 |
| f | (2, 4) | 2.0 | A4 | | 0.823333 | 0.058391 | 10 |
| f | (2, 4) | 2.0 | A3 | | 0.821979 | 0.063229 | 10 |
| f | (3, 5) | 2.0 | A10 | | 0.820854 | 0.033145 | 10 |
| f | (3, 5) | 2.0 | A9 | | 0.820781 | 0.044338 | 10 |
| f | (2, 4) | 5.0 | A10 | | 0.820500 | 0.045533 | 10 |
| f | (2, 4) | 2.0 | A9 | | 0.818594 | 0.056399 | 10 |
| f | (3, 5) | 2.0 | A4 | | 0.817052 | 0.032292 | 10 |
| f | (2, 4) | 2.0 | A7 | | 0.816781 | 0.028749 | 10 |
| f | (3, 5) | 2.0 | A8 | | 0.816104 | 0.064078 | 10 |
| f | (2, 4) | 2.0 | A8 | | 0.815563 | 0.031624 | 10 |
| f | (3, 5) | 2.0 | A7 | | 0.812531 | 0.068885 | 10 |
| f | (2, 4) | 2.0 | A10 | | 0.810115 | 0.056460 | 10 |
| f | (3, 5) | 2.0 | A1 | | 0.809677 | 0.066818 | 10 |
| f | (3, 5) | 2.0 | A5 | | 0.806740 | 0.042823 | 10 |
| f | (2, 4) | 2.0 | A5 | | 0.805896 | 0.056121 | 10 |
| f | (2, 4) | 2.0 | A2 | | 0.785073 | 0.063369 | 10 |
| m | (3, 5) | | | | 0.656562 | 0.037365 | 10 |

| Algorithm | k | r | aggregation | Level of missing values | auc | stddev | Cross validation |
|---|---|---|---|---|---|---|---|
| m | (2, 4) | | | | 0.630552 | 0.021190 | 10 |
| f | (3, 5) | 10.0 | A1 | | 0.837188 | 0.071880 | 10 |
| f | (3, 5) | 10.0 | A7 | | 0.834021 | 0.047256 | 10 |
| f | (3, 5) | 10.0 | A2 | | 0.833792 | 0.046470 | 10 |
| f | (3, 5) | 10.0 | A10 | | 0.831667 | 0.054492 | 10 |
| f | (2, 4) | 10.0 | A7 | | 0.826000 | 0.040352 | 10 |
| f | (3, 5) | 10.0 | A4 | | 0.824938 | 0.022612 | 10 |
| f | (2, 4) | 10.0 | A4 | | 0.823667 | 0.058684 | 10 |
| f | (2, 4) | 10.0 | A3 | | 0.823469 | 0.042027 | 10 |
| f | (2, 4) | 10.0 | A1 | | 0.822615 | 0.051801 | 10 |
| f | (2, 4) | 10.0 | A10 | | 0.821146 | 0.043973 | 10 |
| f | (3, 5) | 5.0 | A5 | | 0.819031 | 0.047294 | 10 |
| f | (2, 4) | 5.0 | A1 | | 0.818063 | 0.068468 | 10 |
| f | (2, 4) | 5.0 | A10 | | 0.817937 | 0.045846 | 10 |
| f | (2, 4) | 5.0 | A2 | | 0.817677 | 0.032366 | 10 |
| f | (2, 4) | 10.0 | A2 | | 0.816750 | 0.052794 | 10 |
| f | (2, 4) | 10.0 | A8 | | 0.816250 | 0.031948 | 10 |
| f | (2, 4) | 5.0 | A3 | | 0.815979 | 0.047172 | 10 |
| f | (2, 4) | 10.0 | A6 | | 0.814823 | 0.037806 | 10 |
| f | (3, 5) | 5.0 | A7 | | 0.814781 | 0.059243 | 10 |
| f | (2, 4) | 10.0 | A5 | | 0.814490 | 0.074400 | 10 |
| f | (2, 4) | 5.0 | A5 | | 0.813323 | 0.059585 | 10 |
| f | (2, 4) | 10.0 | A9 | | 0.812323 | 0.053788 | 10 |
| f | (3, 5) | 10.0 | A6 | | 0.812031 | 0.054430 | 10 |
| f | (3, 5) | 5.0 | A10 | | 0.808854 | 0.047048 | 10 |
| f | (3, 5) | 5.0 | A8 | | 0.805333 | 0.029911 | 10 |
| f | (2, 4) | 5.0 | A9 | | 0.804990 | 0.047828 | 10 |
| f | (2, 4) | 5.0 | A4 | | 0.804854 | 0.066170 | 10 |
| f | (2, 4) | 5.0 | A6 | | 0.804312 | 0.063130 | 10 |
| f | (3, 5) | 5.0 | A2 | | 0.803667 | 0.048181 | 10 |
| f | (3, 5) | 10.0 | A5 | **0.4** | 0.803104 | 0.050821 | 10 |
| f | (3, 5) | 5.0 | A3 | | 0.803031 | 0.051607 | 10 |
| f | (2, 4) | 5.0 | A7 | | 0.802000 | 0.069171 | 10 |
| f | (3, 5) | 10.0 | A9 | | 0.801677 | 0.042926 | 10 |
| f | (3, 5) | 5.0 | A6 | | 0.801094 | 0.036298 | 10 |
| f | (2, 4) | 2.0 | A6 | | 0.799083 | 0.039576 | 10 |
| f | (3, 5) | 2.0 | A2 | | 0.798802 | 0.050665 | 10 |
| f | (3, 5) | 10.0 | A3 | | 0.792833 | 0.038680 | 10 |
| f | (3, 5) | 5.0 | A1 | | 0.792167 | 0.047107 | 10 |
| f | (3, 5) | 10.0 | A8 | | 0.789844 | 0.045016 | 10 |
| f | (3, 5) | 2.0 | A5 | | 0.788260 | 0.048010 | 10 |
| f | (3, 5) | 5.0 | A9 | | 0.787281 | 0.038212 | 10 |
| f | (3, 5) | 2.0 | A7 | | 0.786042 | 0.052977 | 10 |
| f | (2, 4) | 2.0 | A9 | | 0.785604 | 0.040491 | 10 |
| f | (2, 4) | 2.0 | A8 | | 0.785365 | 0.053810 | 10 |
| f | (3, 5) | 5.0 | A4 | | 0.784823 | 0.056318 | 10 |
| f | (3, 5) | 2.0 | A8 | | 0.784000 | 0.033114 | 10 |
| f | (3, 5) | 2.0 | A9 | | 0.780062 | 0.026521 | 10 |
| f | (3, 5) | 2.0 | A10 | | 0.776531 | 0.058882 | 10 |
| f | (2, 4) | 2.0 | A10 | | 0.776427 | 0.043420 | 10 |
| f | (2, 4) | 2.0 | A4 | | 0.775979 | 0.066153 | 10 |
| f | (3, 5) | 2.0 | A4 | | 0.775698 | 0.035171 | 10 |
| f | (3, 5) | 2.0 | A3 | | 0.770344 | 0.022940 | 10 |
| f | (2, 4) | 2.0 | A3 | | 0.767062 | 0.041993 | 10 |
| f | (3, 5) | 2.0 | A1 | | 0.766760 | 0.035403 | 10 |
| f | (2, 4) | 5.0 | A8 | | 0.766469 | 0.048638 | 10 |
| f | (3, 5) | 2.0 | A6 | | 0.761260 | 0.041999 | 10 |
| f | (2, 4) | 2.0 | A7 | | 0.761062 | 0.036289 | 10 |
| f | (2, 4) | 2.0 | A2 | | 0.758927 | 0.048203 | 10 |
| f | (2, 4) | 2.0 | A1 | | 0.756458 | 0.048945 | 10 |
| f | (2, 4) | 2.0 | A5 | | 0.737865 | 0.059203 | 10 |
| m | (2, 4) | | | | 0.630563 | 0.033272 | 10 |

| Algorithm | k | r | aggregation | Level of missing values | auc | stddev | Cross validation |
|---|---|---|---|---|---|---|---|
| m | (3, 5) | | | | 0.616573 | 0.044648 | 10 |
| f | (2, 4) | 10.0 | A1 | | 0.794958 | 0.038373 | 10 |
| f | (3, 5) | 10.0 | A2 | | 0.794042 | 0.054246 | 10 |
| f | (2, 4) | 10.0 | A2 | | 0.793729 | 0.049913 | 10 |
| f | (2, 4) | 10.0 | A10 | | 0.787479 | 0.053019 | 10 |
| f | (3, 5) | 10.0 | A7 | | 0.782167 | 0.071402 | 10 |
| f | (3, 5) | 10.0 | A10 | | 0.780490 | 0.047592 | 10 |
| f | (3, 5) | 10.0 | A6 | | 0.779802 | 0.042925 | 10 |
| f | (3, 5) | 10.0 | A1 | | 0.779469 | 0.062211 | 10 |
| f | (2, 4) | 10.0 | A6 | | 0.776875 | 0.034045 | 10 |
| f | (3, 5) | 5.0 | A4 | | 0.774813 | 0.056329 | 10 |
| f | (3, 5) | 5.0 | A3 | | 0.774792 | 0.056738 | 10 |
| f | (3, 5) | 5.0 | A2 | | 0.774365 | 0.043912 | 10 |
| f | (2, 4) | 5.0 | A6 | | 0.773479 | 0.065407 | 10 |
| f | (2, 4) | 5.0 | A2 | | 0.772448 | 0.058036 | 10 |
| f | (2, 4) | 10.0 | A4 | | 0.768396 | 0.042270 | 10 |
| f | (2, 4) | 10.0 | A5 | | 0.767927 | 0.060615 | 10 |
| f | (3, 5) | 10.0 | A4 | | 0.766521 | 0.036743 | 10 |
| f | (3, 5) | 5.0 | A10 | | 0.764896 | 0.049834 | 10 |
| f | (3, 5) | 5.0 | A1 | | 0.764667 | 0.048835 | 10 |
| f | (2, 4) | 10.0 | A7 | | 0.763625 | 0.052715 | 10 |
| f | (2, 4) | 5.0 | A10 | | 0.763344 | 0.060735 | 10 |
| f | (2, 4) | 10.0 | A3 | | 0.762677 | 0.028987 | 10 |
| f | (2, 4) | 10.0 | A9 | | 0.762323 | 0.068295 | 10 |
| f | (3, 5) | 5.0 | A5 | | 0.762292 | 0.051112 | 10 |
| f | (3, 5) | 5.0 | A7 | | 0.761688 | 0.052377 | 10 |
| f | (3, 5) | 5.0 | A8 | | 0.760448 | 0.039404 | 10 |
| f | (2, 4) | 10.0 | A8 | | 0.759948 | 0.042887 | 10 |
| f | (2, 4) | 5.0 | A5 | | 0.758531 | 0.044250 | 10 |
| f | (2, 4) | 5.0 | A7 | | 0.758385 | 0.041762 | 10 |
| f | (2, 4) | 5.0 | A3 | | 0.756729 | 0.041490 | 10 |
| f | (3, 5) | 5.0 | A6 | **0.5** | 0.754823 | 0.042348 | 10 |
| f | (2, 4) | 5.0 | A1 | | 0.754750 | 0.052744 | 10 |
| f | (3, 5) | 10.0 | A5 | | 0.754437 | 0.069690 | 10 |
| f | (3, 5) | 5.0 | A9 | | 0.750854 | 0.061520 | 10 |
| f | (2, 4) | 5.0 | A9 | | 0.747854 | 0.044329 | 10 |
| f | (3, 5) | 2.0 | A4 | | 0.747667 | 0.045575 | 10 |
| f | (3, 5) | 10.0 | A3 | | 0.743354 | 0.061895 | 10 |
| f | (2, 4) | 5.0 | A4 | | 0.738698 | 0.065956 | 10 |
| f | (3, 5) | 2.0 | A5 | | 0.738552 | 0.042039 | 10 |
| f | (3, 5) | 10.0 | A9 | | 0.737156 | 0.091566 | 10 |
| f | (3, 5) | 10.0 | A8 | | 0.736167 | 0.062593 | 10 |
| f | (3, 5) | 2.0 | A7 | | 0.734813 | 0.037192 | 10 |
| f | (2, 4) | 5.0 | A8 | | 0.733698 | 0.047862 | 10 |
| f | (3, 5) | 2.0 | A6 | | 0.732010 | 0.063152 | 10 |
| f | (2, 4) | 2.0 | A2 | | 0.730365 | 0.066321 | 10 |
| f | (2, 4) | 2.0 | A3 | | 0.729917 | 0.047036 | 10 |
| f | (2, 4) | 2.0 | A7 | | 0.729635 | 0.045037 | 10 |
| f | (3, 5) | 2.0 | A2 | | 0.728771 | 0.053706 | 10 |
| f | (2, 4) | 2.0 | A6 | | 0.724865 | 0.056578 | 10 |
| f | (2, 4) | 2.0 | A8 | | 0.724719 | 0.042776 | 10 |
| f | (2, 4) | 2.0 | A10 | | 0.724635 | 0.049427 | 10 |
| f | (2, 4) | 2.0 | A4 | | 0.724073 | 0.051757 | 10 |
| f | (3, 5) | 2.0 | A9 | | 0.723979 | 0.065843 | 10 |
| f | (2, 4) | 2.0 | A9 | | 0.723448 | 0.034234 | 10 |
| f | (3, 5) | 2.0 | A8 | | 0.721042 | 0.062348 | 10 |
| f | (3, 5) | 2.0 | A10 | | 0.717510 | 0.056801 | 10 |
| f | (2, 4) | 2.0 | A5 | | 0.716885 | 0.045068 | 10 |
| f | (3, 5) | 2.0 | A1 | | 0.711896 | 0.065610 | 10 |
| f | (2, 4) | 2.0 | A1 | | 0.706656 | 0.060425 | 10 |
| f | (3, 5) | 2.0 | A3 | | 0.706198 | 0.037066 | 10 |
| m | (2, 4) | | | | 0.583521 | 0.037766 | 10 |

| Algorithm | k | r | aggregation | Level of missing values | auc | stddev | Cross validation |
|---|---|---|---|---|---|---|---|
| m | (3, 5) | | | | 0.571198 | 0.050523 | 10 |