## **DE-Forest**

No Author Given

No Institute Given

## 1 Results

Table 1. BAC

Dataset name DE-Fore	st-gm DE-Forest-AUC	C DE-Forest-bac	DE-Forest-gm-b	DE-Forest-AUC-l	DE-Forest-bac-b	RandomFS	RandomFS-b	DT	RF	RF-b
$datasets_all/glass5.dat 0.717 \pm$	$0.186   0.655 \pm 0.128$	$0.668 \pm 0.141$	$0.512 \pm 0.038$	$0.512 \pm 0.038$	$0.512 \pm 0.038$	$0.601 \pm 0.101$	$0.570 \pm 0.141$	$0.767 \pm 0.179$	$0.705 \pm 0.111$	$0.638 \pm 0.097$
$datasets_all/winequality - white - 9_v s_4.dat = 0.539 \pm$		$0.539 \pm 0.087$	$0.567 \pm 0.104$	$0.567 \pm 0.104$	$0.567 \pm 0.104$	$0.498 \pm 0.006$	$0.500 \pm 0.000$	$0.572 \pm 0.107$	$0.549 \pm 0.099$	$0.517 \pm 0.050$
$datasets_all/winequality - red - 8_vs_6 - 7.dat$ 0.560 $\pm$		$0.559 \pm 0.017$	$0.555 \pm 0.000$	$0.555 \pm 0.000$	$0.555 \pm 0.000$	$0.555 \pm 0.000$	$0.550 \pm 0.017$		$0.554 \pm 0.002$	$0.533 \pm 0.027$
$datasets_a ll/yeast1.dat = 0.624 \pm$		$0.619 \pm 0.014$	$0.596 \pm 0.009$	$0.597 \pm 0.010$	$0.596 \pm 0.012$	$0.514 \pm 0.015$		$0.634 \pm 0.013$		
$datasets_a ll/yeast6.dat 0.606 \pm$		$0.601 \pm 0.041$	$0.584 \pm 0.037$	$0.584 \pm 0.037$	$0.587 \pm 0.036$	$0.503 \pm 0.009$		$0.725\pm0.053$		$0.619 \pm 0.036$
$datasets_a ll/clevel and -0_v s_4.dat 0.601 \pm$		$0.590 \pm 0.068$	$0.630 \pm 0.111$	$0.630 \pm 0.111$	$0.622 \pm 0.118$	$0.521 \pm 0.035$		$0.647 \pm 0.064$		$0.618 \pm 0.099$
$datasets_a ll/ecoli - 0 - 1_v s_2 - 3 - 5.dat  0.752 \pm$		$0.767 \pm 0.071$	$0.750 \pm 0.076$	$0.750 \pm 0.076$	$0.750 \pm 0.076$	$0.641 \pm 0.080$		$0.809 \pm 0.061$		$0.776 \pm 0.058$
$datasets_a ll/yeast-1_v s_7.dat$ 0.560 ±		$0.590 \pm 0.054$	$0.563 \pm 0.034$	$0.563 \pm 0.034$	$0.541 \pm 0.037$	$0.510 \pm 0.021$		$0.656\pm0.051$		$0.556 \pm 0.034$
$datasets_a ll/abalone - 21_v s_8.dat = 0.674 \pm$		$0.674 \pm 0.071$	$0.606 \pm 0.085$	$0.606 \pm 0.085$	$0.606 \pm 0.085$	$0.578 \pm 0.067$		$0.665 \pm 0.084$		$0.711 \pm 0.099$
$datasets_all/abalone19.dat 0.499 \pm$		$0.502 \pm 0.009$	$0.500 \pm 0.000$	$0.500 \pm 0.000$	$0.500 \pm 0.000$	$0.500 \pm 0.000$		$0.508 \pm 0.016$		$0.500 \pm 0.000$
$datasets_a ll/poker - 9_v s_7.dat 0.610 \pm$		$0.610 \pm 0.120$	$0.500 \pm 0.000$	$0.512 \pm 0.038$	$0.512 \pm 0.038$	$0.550 \pm 0.062$		$0.655 \pm 0.127$		$0.512 \pm 0.038$
$datasets_a ll/ecoli 3.dat  0.681 \pm \\ datasets_a ll/abalone - 17_v s_7 - 8 - 9 - 10.dat  0.570 \pm \\$		$0.683 \pm 0.048$ $0.570 \pm 0.035$	$0.673 \pm 0.060$ $0.536 \pm 0.027$	$0.673 \pm 0.060$ $0.536 \pm 0.027$	$0.679 \pm 0.057$ $0.539 \pm 0.028$	$0.519 \pm 0.035$ $0.505 \pm 0.015$		$0.715 \pm 0.050$ $0.616 \pm 0.041$		$0.683 \pm 0.067$ $0.549 \pm 0.027$
$datasets_a ll/glass - 0 - 1 - 6_v s_5.dat$ 0.739 $\pm$		$0.742 \pm 0.132$	$0.609 \pm 0.027$	$0.609 \pm 0.027$	$0.609 \pm 0.029$	$0.676 \pm 0.159$		$0.842 \pm 0.041$		$0.650 \pm 0.128$
$datasets_a lt/gtass = 0 = 1 = 6_c s_5 .aat = 0.735 \pm datasets_a lt/ecoli = 0 = 1 = 3 = 7_c s_2 = 6.dat = 0.579 \pm$		$0.579 \pm 0.109$	$0.562 \pm 0.107$	$0.562 \pm 0.107$	$0.562 \pm 0.107$	$0.516 \pm 0.047$		$0.752 \pm 0.118$		$0.500 \pm 0.020$
$datasets_a ll/yeast - 0 - 2 - 5 - 6_v s_3 - 7 - 8 - 9.dat$ 0.674 $\pm$		$0.679 \pm 0.109$	$0.646 \pm 0.047$	$0.646 \pm 0.047$	$0.658 \pm 0.039$	$0.536 \pm 0.036$		$0.719 \pm 0.030$		$0.694 \pm 0.018$
$datasets_all/yeast5.dat 0.727 \pm$		$0.733 \pm 0.042$	$0.653 \pm 0.057$	$0.653 \pm 0.057$	$0.653 \pm 0.057$	$0.513 \pm 0.015$		$0.798 \pm 0.077$		$0.693 \pm 0.027$
$datasets_a ll/glass - 0 - 1 - 4 - 6_v s_2.dat$ 0.540 $\pm$		$0.523 \pm 0.052$	$0.504 \pm 0.017$	$0.504 \pm 0.017$	$0.503 \pm 0.018$	$0.507 \pm 0.025$		$0.537 \pm 0.065$		$0.508 \pm 0.027$
$datasets_a ll/yeast - 0 - 5 - 6 - 7 - 9_v s_4.dat 0.613 \pm$		$0.620 \pm 0.034$	$0.566 \pm 0.024$	$0.566 \pm 0.024$	$0.566 \pm 0.024$	$0.501 \pm 0.006$		$0.669 \pm 0.041$		$0.614 \pm 0.055$
$datasets_all/yeast3.dat 0.814 \pm$	$0.028   0.804 \pm 0.028$	$0.810 \pm 0.031$	$0.755 \pm 0.043$	$0.755 \pm 0.043$	$0.764 \pm 0.043$	$0.502 \pm 0.006$	$0.504 \pm 0.009$	$0.836 \pm 0.028$	$0.813 \pm 0.034$	$0.807 \pm 0.039$
$datasets_a ll/kr - vs - k - zero_v s_e ight.dat 0.822 \pm$	$0.117  0.840 \pm 0.128$	$0.840 \pm 0.128$	$0.847 \pm 0.081$	$0.874 \pm 0.086$	$0.874 \pm 0.086$	$0.500 \pm 0.000$	$0.500 \pm 0.000$	$0.953 \pm 0.057$	$0.959 \pm 0.046$	$0.914 \pm 0.060$
$datasets_a ll/ecoli - 0 - 6 - 7_v s_3 - 5.dat  0.771 \pm$	$0.068   0.767 \pm 0.077$	$0.767 \pm 0.077$	$0.620 \pm 0.061$	$0.620 \pm 0.061$	$0.621 \pm 0.061$	$0.543 \pm 0.057$	$0.544 \pm 0.042$	$0.823\pm0.066$	$0.815 \pm 0.059$	$0.823 \pm 0.040$
$datasets_a ll/kddcup-rootkit-imap_v s_b ack.dat$ 0.991 ±		$0.991 \pm 0.027$	$0.936 \pm 0.046$	$0.936 \pm 0.046$	$0.936 \pm 0.046$	$0.955 \pm 0.054$		$1.000 \pm 0.000$		$0.964 \pm 0.027$
$datasets_all/winequality - red - 8_v s_6.dat = 0.552 \pm$	$0.024$ $0.568 \pm 0.047$	$0.569 \pm 0.047$	$0.553 \pm 0.035$	$0.553 \pm 0.035$	$0.554 \pm 0.035$	$0.544 \pm 0.022$	$0.516 \pm 0.026$	$0.604 \pm 0.069$	$0.557 \pm 0.029$	$0.532 \pm 0.028$
$datasets_all/flare - F.dat = 0.523 \pm$		$0.526 \pm 0.024$	$0.540 \pm 0.035$	$0.527 \pm 0.026$	$0.532 \pm 0.042$	$0.502 \pm 0.007$		$0.570 \pm 0.032$		
$datasets_all/glass4.dat = 0.685 \pm$		$0.708 \pm 0.118$	$0.601 \pm 0.075$	$0.601 \pm 0.075$	$0.601 \pm 0.075$	$0.627 \pm 0.087$		$0.799 \pm 0.080$		$0.666 \pm 0.062$
$datasets_a ll/haberman.dat 0.560 \pm$		$0.553 \pm 0.042$	$0.545 \pm 0.042$	$0.551 \pm 0.038$	$0.538 \pm 0.039$	$0.521 \pm 0.032$		$0.562\pm0.041$		$0.537 \pm 0.041$
$datasets_a ll/poker - 8 - 9_v s_6.dat = 0.552 \pm$		$0.540 \pm 0.048$	$0.529 \pm 0.032$	$0.529 \pm 0.032$	$0.529 \pm 0.032$	$0.500 \pm 0.000$		$0.572 \pm 0.066$		$0.516 \pm 0.020$
$datasets_a ll/yeast-1-4-5-8_v s_7.dat$ 0.499 $\pm$		$0.500 \pm 0.010$	$0.505 \pm 0.013$	$0.505 \pm 0.013$	$0.505 \pm 0.013$	$0.500 \pm 0.000$		$0.519 \pm 0.023$		$0.509 \pm 0.015$
$datasets_a ll/ecoli - 0 - 2 - 6 - 7_v s_3 - 5.dat$ 0.714 ±		$0.710 \pm 0.132$	$0.663 \pm 0.105$	$0.663 \pm 0.105$	$0.663 \pm 0.105$			$0.796 \pm 0.067$		$0.774 \pm 0.046$
$datasets_a ll/glass - 0 - 1 - 6_v s_2.dat$ 0.547 $\pm$ $datasets_a ll/yeast4.dat$ 0.565 $\pm$		$0.531 \pm 0.039$ $0.562 \pm 0.042$	$0.517 \pm 0.028$ $0.545 \pm 0.026$	$0.517 \pm 0.028$ $0.547 \pm 0.027$	$0.511 \pm 0.024$ $0.540 \pm 0.024$	$0.508 \pm 0.029$ $0.510 \pm 0.016$		$0.564 \pm 0.051$ $0.619 \pm 0.046$		$0.515 \pm 0.026$ $0.549 \pm 0.023$
$aatasets_a ll/paqe - blocks0.dat 0.899 \pm$		$0.896 \pm 0.014$	$0.886 \pm 0.026$	$0.886 \pm 0.027$	$0.883 \pm 0.022$			$0.903 \pm 0.046$		
$datasets_a ll/ecoli - 0 - 1 - 4 - 7_v s_2 - 3 - 5 - 6.dat$ 0.760 $\pm$		$0.745 \pm 0.059$	$0.683 \pm 0.083$	$0.683 \pm 0.013$	$0.670 \pm 0.022$	$0.558 \pm 0.026$		$0.831 \pm 0.053$		$0.749 \pm 0.048$
$datasets_a tt/etott - 0 - 1 - 4 - 1_v s_2 - 3 - 3 - 0.aat - 0.700 \pm datasets_a tt/etott - 0.519 \pm$		$0.525 \pm 0.057$	$0.500 \pm 0.000$	$0.500 \pm 0.000$	$0.500 \pm 0.003$			$0.531 \pm 0.033$ $0.539 \pm 0.113$		$0.500 \pm 0.000$
$datasets_a ll/ecoli1.dat$ 0.000 $\pm$		0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000				$0.000 \pm 0.010$		
$datasets_all/glass0.dat$ 0.797 $\pm$		$0.797 \pm 0.048$	$0.792 \pm 0.040$	$0.792 \pm 0.040$	$0.785 \pm 0.041$	$0.786 \pm 0.033$		$0.757 \pm 0.039$		
$datasets_all/winequality - red - 4.dat = 0.507 \pm$		$0.501 \pm 0.007$	$0.509 \pm 0.013$	$0.509 \pm 0.013$	$0.503 \pm 0.008$	$0.502 \pm 0.006$	$0.500 \pm 0.000$	$0.534 \pm 0.039$	$0.510 \pm 0.015$	$0.507 \pm 0.009$
$datasets_a ll/pima.dat 0.657 \pm$	$0.026   0.667 \pm 0.030$	$0.655 \pm 0.023$	$0.661 \pm 0.029$	$0.672 \pm 0.012$	$0.657 \pm 0.020$	$0.586 \pm 0.026$	$0.588 \pm 0.031$	$0.654 \pm 0.021$	$0.687 \pm 0.016$	$0.678 \pm 0.026$
$datasets_a ll/abalone - 19_v s_1 0 - 11 - 12 - 13.dat 0.502 \pm$	$0.010   0.505 \pm 0.013$	$0.506 \pm 0.013$	$0.500 \pm 0.001$	$0.500 \pm 0.001$	$0.500 \pm 0.001$	$0.500 \pm 0.000$	$0.500 \pm 0.000$	$0.514\pm0.031$	$0.499 \pm 0.001$	$0.503 \pm 0.009$
$datasets_a ll/ecoli2.dat$ 0.000 $\pm$		$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$				$0.000 \pm 0.000$		
$datasets_all/abalone9 - 18.dat 0.614 \pm$		$0.604 \pm 0.052$	$0.543 \pm 0.021$	$0.543 \pm 0.021$	$0.535 \pm 0.019$	$0.501 \pm 0.007$		$0.630\pm0.052$		$0.549 \pm 0.031$
$datasets_a ll/yeast - 1 - 2 - 8 - 9_v s_7.dat$ 0.541 ±		$0.534 \pm 0.028$	$0.515 \pm 0.027$	$0.519 \pm 0.027$	$0.519 \pm 0.027$			$0.598 \pm 0.056$		$0.525 \pm 0.032$
$datasets_all/winequality - white - 3_v s_7.dat = 0.578 \pm$		$0.588 \pm 0.038$	$0.559 \pm 0.049$	$0.559 \pm 0.049$	$0.559 \pm 0.049$	$0.520 \pm 0.024$		$0.635 \pm 0.096$		$0.565 \pm 0.050$
$datasets_a ll/yeast - 2_v s_4.dat = 0.767 \pm$		$0.767 \pm 0.047$	$0.790 \pm 0.050$	$0.790 \pm 0.050$	$0.790 \pm 0.050$	$0.597 \pm 0.047$		$0.828 \pm 0.031$		$0.817 \pm 0.034$
$datasets_all/winequality - red - 3_v s_5.dat 0.499 \pm$		$0.498 \pm 0.002$	$0.500 \pm 0.001$	$0.500 \pm 0.001$	$0.500 \pm 0.001$	$0.500 \pm 0.000$		$0.543 \pm 0.064$		$0.500 \pm 0.000$
$datasets_a ll/glass 2.dat = 0.531 \pm datasets_a ll/yeast - 2_v s_8.dat = 0.723 \pm$		$0.534 \pm 0.058$	0.518 ± 0.039	$0.518 \pm 0.039$	$0.518 \pm 0.039$	$0.533 \pm 0.050$		$0.598 \pm 0.085$ $0.731 \pm 0.088$		$0.523 \pm 0.057$
$datasets_a ll/yeast - 2_v s_8.dat = 0.123 \pm datasets_a ll/qlass 1.dat = 0.747 \pm$		$0.688 \pm 0.104$ $0.739 \pm 0.043$	$0.549 \pm 0.094$ $0.723 \pm 0.026$	$0.549 \pm 0.094$ $0.723 \pm 0.026$	$0.549 \pm 0.094$ $0.716 \pm 0.030$	$0.505 \pm 0.015$ $0.729 \pm 0.052$		$0.731 \pm 0.088$ $0.712 \pm 0.032$		$0.614 \pm 0.104$ $0.746 \pm 0.058$
$datasets_a ll/gass1.dat = 0.141 \pm datasets_a ll/zoo - 3.dat = 0.591 \pm$		$0.739 \pm 0.043$ $0.574 \pm 0.113$	$0.723 \pm 0.026$ $0.549 \pm 0.101$	$0.723 \pm 0.026$ $0.549 \pm 0.101$	$0.716 \pm 0.030$ $0.549 \pm 0.101$	$0.729 \pm 0.032$ $0.500 \pm 0.000$	$0.703 \pm 0.033$ $0.500 \pm 0.000$		$0.746 \pm 0.030$ $0.581 \pm 0.107$	
$datasets_a ll/glass - 0 - 1 - 5_v s_2.dat$ 0.591 $\pm$		$0.574 \pm 0.113$ $0.543 \pm 0.063$	$0.497 \pm 0.101$ $0.497 \pm 0.006$	$0.499 \pm 0.101$ $0.497 \pm 0.006$	$0.497 \pm 0.101$ $0.497 \pm 0.006$	$0.520 \pm 0.000$ $0.522 \pm 0.037$		$0.578 \pm 0.064$		$0.510 \pm 0.128$ $0.510 \pm 0.021$
$datasets_a tr/gtass = 0 = 1 = 5_v s_2 \cdot aut = 0.500 \pm datasets_a tr/gtass = 0 = 1 = 0.500 \pm $		$0.526 \pm 0.030$	$0.504 \pm 0.012$	$0.504 \pm 0.012$	$0.504 \pm 0.012$			$0.578 \pm 0.004$ $0.591 \pm 0.070$		
$datasets_a ll/k dd cup - buffer_overflow_v s_b ack.dat$ 0.993 $\pm$		$0.993 \pm 0.020$	$0.947 \pm 0.079$	$0.947 \pm 0.079$	$0.947 \pm 0.079$	$0.940 \pm 0.063$		$1.000 \pm 0.000$		
$datasets_a ll/winequality - white - 3 - 9_a s_b data 0.593 \pm$		$0.511 \pm 0.026$	$0.504 \pm 0.012$	$0.504 \pm 0.012$	$0.500 \pm 0.001$			$0.574 \pm 0.052$		
datasets <sub>a</sub> ll/vehicle3.dat 0.000 ±		0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000				$0.000 \pm 0.000$		
$datasets_all/vehicle1.dat$ 0.000 $\pm$		$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$				$0.000 \pm 0.000$		
$datasets_a ll/page - blocks - 1 - 3_v s_4.dat 0.923 \pm$		$0.933 \pm 0.054$	$0.909 \pm 0.047$	$0.909 \pm 0.047$	$0.909 \pm 0.047$	$0.891 \pm 0.040$	$0.877 \pm 0.057$	$0.938 \pm 0.069$	$0.934 \pm 0.041$	$0.906 \pm 0.066$
$datasets_a ll/ecoli - 0 - 6 - 7_v s_5.dat 0.729 \pm$		$0.716 \pm 0.170$	$0.692 \pm 0.085$	$0.692 \pm 0.085$	$0.692 \pm 0.085$	$0.567 \pm 0.054$	$0.593 \pm 0.064$	$0.833\pm0.067$	$0.823 \pm 0.084$	$0.800 \pm 0.103$
$datasets_a ll/poker - 8 - 9_v s_5.dat = 0.500 \pm$	$0.000   0.504 \pm 0.012$	$0.504 \pm 0.012$	$0.504 \pm 0.013$	$0.500 \pm 0.000$	$0.500 \pm 0.000$	$0.500 \pm 0.000$	$0.500 \pm 0.000$	$0.586\pm0.072$	$0.508 \pm 0.017$	$0.500 \pm 0.000$
$datasets_a ll/yeast - 0 - 3 - 5 - 9_v s_7 - 8.dat \ 0.578 \pm$	$0.025$ $0.578 \pm 0.031$	$0.577 \pm 0.028$	$0.544 \pm 0.031$	$0.544 \pm 0.031$	$0.546 \pm 0.025$	$0.505 \pm 0.013$	$0.506 \pm 0.012$	$0.618 \pm 0.045$	$0.573 \pm 0.016$	$0.575 \pm 0.035$

Table 2. F1score

		DE-Forest-AUC	C DE-Forest-bac	DE-Forest-gm-b	DE-Forest-AUC-b	DE-Forest-bac-b	RandomFS	RandomFS-b		RF	RF-b
$datasets_all/glass5.dat$	$0.959 \pm 0.022$	$0.954 \pm 0.019$	$0.956 \pm 0.019$	$0.939 \pm 0.010$	$0.939 \pm 0.010$	$0.939 \pm 0.010$	$0.951 \pm 0.016$	$0.947 \pm 0.017$		$0.965 \pm 0.014$	
$datasets_all/winequality - white - 9_v s_4.dat$		$0.958 \pm 0.014$	$0.958 \pm 0.014$	$0.962 \pm 0.015$	$0.962 \pm 0.015$	$0.962 \pm 0.015$	$0.953 \pm 0.008$	$0.956 \pm 0.009$	$0.951 \pm 0.016$	$0.958 \pm 0.014$	$0.958 \pm 0.0$
$datasets_a ll/winequality - red - 8_v s_6 - 7.dat$	$0.973 \pm 0.002$	$0.972 \pm 0.003$	$0.972 \pm 0.003$	$0.974 \pm 0.000$	$0.974 \pm 0.000$	$0.974 \pm 0.000$	$0.974 \pm 0.000$	$0.973 \pm 0.002$	$0.959 \pm 0.005$	$0.972 \pm 0.002$	$0.971 \pm 0.0$
$datasets_all/yeast1.dat$	$0.716 \pm 0.017$	$0.718 \pm 0.006$	$0.712 \pm 0.012$	$0.696 \pm 0.008$	$0.697 \pm 0.009$	$0.697 \pm 0.011$	$0.610 \pm 0.019$	$0.617 \pm 0.019$	$0.698 \pm 0.010$	$0.742 \pm 0.009$	$0.734 \pm 0.0$
$datasets_all/yeast6.dat$	$0.972 \pm 0.004$	$0.973 \pm 0.003$	$0.972 \pm 0.003$	$0.972 \pm 0.003$	$0.972 \pm 0.003$	$0.972 \pm 0.003$	$0.965 \pm 0.002$	$0.966 \pm 0.003$	$0.970 \pm 0.005$	$0.977 \pm 0.003$	$0.975 \pm 0.0$
$datasets_a ll/clevel and -0_v s_4.dat$		$0.913 \pm 0.016$	$0.913 \pm 0.019$	$0.923 \pm 0.028$	$0.923 \pm 0.028$	$0.920 \pm 0.029$	$0.893 \pm 0.017$	$0.898 \pm 0.017$	$0.905 \pm 0.021$	$0.922 \pm 0.024$	$0.922 \pm 0.0$
$datasets_a ll/ecoli - 0 - 1_v s_2 - 3 - 5.dat$	$0.933 \pm 0.021$	$0.932 \pm 0.022$	$0.937 \pm 0.022$	$0.935 \pm 0.016$	$0.935 \pm 0.016$	$0.935 \pm 0.016$	$0.908 \pm 0.026$	$0.897 \pm 0.022$	$0.935 \pm 0.011$	$0.949 \pm 0.008$	$0.944 \pm 0.0$
$datasets_all/yeast - 1_v s_7.dat$	$0.914 \pm 0.010$	$0.915 \pm 0.010$	$0.920 \pm 0.012$	$0.918 \pm 0.009$	$0.918 \pm 0.009$	$0.913 \pm 0.010$	$0.906 \pm 0.007$	$0.903 \pm 0.006$	$0.910 \pm 0.007$	$0.919 \pm 0.008$	$0.916 \pm 0.$
$datasets_a ll/abalone - 21_v s_8.dat$	$0.974 \pm 0.004$	$0.974 \pm 0.004$	$0.974 \pm 0.004$	$0.972 \pm 0.006$	$0.972 \pm 0.006$	$0.972 \pm 0.006$	$0.971 \pm 0.006$	$0.968 \pm 0.005$	$0.970 \pm 0.005$	$0.977 \pm 0.007$	$0.977 \pm 0$
$datasets_all/abalone19.dat$	$0.988 \pm 0.001$	$0.988 \pm 0.001$	$0.988 \pm 0.001$	$0.988 \pm 0.000$	$0.988 \pm 0.000$	$0.988 \pm 0.000$	$0.988 \pm 0.000$	$0.989 \pm 0.000$	$0.984 \pm 0.002$	$0.988 \pm 0.000$	$0.988 \pm 0$
$datasets_all/poker - 9_v s_7.dat$	$0.963 \pm 0.017$	$0.962 \pm 0.017$	$0.962 \pm 0.017$	$0.951 \pm 0.000$	$0.953 \pm 0.005$	$0.953 \pm 0.005$	$0.958 \pm 0.009$	$0.952 \pm 0.003$	$0.960 \pm 0.014$	$0.969 \pm 0.013$	$0.953 \pm 0$
$datasets_a ll/ecoli 3.dat$		$0.900 \pm 0.018$	$0.902 \pm 0.011$	$0.904 \pm 0.019$	$0.904 \pm 0.019$	$0.907 \pm 0.018$	$0.853 \pm 0.016$	$0.860 \pm 0.016$	$0.902 \pm 0.018$	$0.906 \pm 0.019$	$0.904 \pm 0$
$datasets_a ll/abalone - 17_v s_7 - 8 - 9 - 10.dat$	$0.967 \pm 0.003$	$0.967 \pm 0.003$	$0.967 \pm 0.002$	$0.966 \pm 0.003$	$0.966 \pm 0.003$	$0.966 \pm 0.002$	$0.963 \pm 0.001$	$0.963 \pm 0.001$	$0.962 \pm 0.003$	$0.967 \pm 0.002$	$0.967 \pm 0$
$datasets_a ll/glass - 0 - 1 - 6_v s_5.dat$	$0.957 \pm 0.015$	$0.961 \pm 0.019$	$0.961 \pm 0.019$	$0.948 \pm 0.016$	$0.948 \pm 0.016$	$0.948 \pm 0.016$	$0.954 \pm 0.024$	$0.937 \pm 0.020$	$0.965 \pm 0.023$	$0.961 \pm 0.017$	$0.951 \pm 0$
$datasets_all/ecoli - 0 - 1 - 3 - 7_vs_2 - 6.dat$	$0.969 \pm 0.011$	$0.969 \pm 0.011$	$0.969 \pm 0.011$	$0.968 \pm 0.011$	$0.968 \pm 0.011$	$0.968 \pm 0.011$	$0.963 \pm 0.005$	$0.963 \pm 0.005$	$0.969 \pm 0.009$	$0.973 \pm 0.012$	$0.963 \pm 0$
$asets_a ll/yeast - 0 - 2 - 5 - 6_v s_3 - 7 - 8 - 9.dat$	$0.908 \pm 0.013$	$0.908 \pm 0.012$	$0.910 \pm 0.013$	$0.905 \pm 0.014$	$0.905 \pm 0.014$	$0.907 \pm 0.012$	$0.869 \pm 0.013$	$0.867 \pm 0.009$	$0.897 \pm 0.009$	$0.917 \pm 0.010$	$0.918 \pm 0$
datasets <sub>a</sub> ll/yeast5.dat	$0.976 \pm 0.005$	$0.977 \pm 0.004$	$0.977 \pm 0.005$	$0.971 \pm 0.005$	$0.971 \pm 0.005$	$0.971 \pm 0.005$	$0.957 \pm 0.002$	$0.957 \pm 0.002$	$0.976 \pm 0.006$	$0.979 \pm 0.005$	$0.974 \pm 0$
$datasets_a ll/glass - 0 - 1 - 4 - 6_v s_2.dat$	$0.873 \pm 0.017$	$0.872 \pm 0.016$	$0.871 \pm 0.014$	$0.879 \pm 0.007$	$0.879 \pm 0.007$	$0.877 \pm 0.008$	$0.877 \pm 0.012$	$0.876 \pm 0.007$		$0.872 \pm 0.017$	$0.878 \pm 0$
$datasets_a ll/yeast - 0 - 5 - 6 - 7 - 9_v s_4.dat$	$0.893 \pm 0.014$	$0.892 \pm 0.013$	$0.893 \pm 0.010$	$0.882 \pm 0.009$	$0.882 \pm 0.009$	$0.882 \pm 0.009$	$0.857 \pm 0.005$	$0.858 \pm 0.004$	$0.885 \pm 0.022$	$0.894 \pm 0.011$	$0.896 \pm 0$
datasets <sub>a</sub> ll/yeast3.dat	$0.936 \pm 0.005$	$0.934 \pm 0.009$	$0.936 \pm 0.006$	$0.927 \pm 0.010$	$0.927 \pm 0.010$	$0.930 \pm 0.010$	$0.840 \pm 0.003$	$0.840 \pm 0.004$	$0.933 \pm 0.007$	$0.940 \pm 0.008$	$0.940 \pm 0$
$datasets_a ll/kr - vs - k - zero_v s_e ight.dat$	$0.991 \pm 0.006$	$0.992 \pm 0.007$	$0.992 \pm 0.007$	$0.993 \pm 0.004$	$0.995 \pm 0.004$	$0.995 \pm 0.004$	$0.972 \pm 0.001$	$0.972 \pm 0.001$		$0.997 \pm 0.003$	
$datasets_a ll/ecoli - 0 - 6 - 7_v s_3 - 5.dat$		$0.932 \pm 0.020$	$0.932 \pm 0.020$	$0.899 \pm 0.021$	$0.899 \pm 0.021$	$0.900 \pm 0.021$	$0.870 \pm 0.021$	$0.868 \pm 0.017$	$0.937 \pm 0.021$	$0.948 \pm 0.017$	0.955 ±
$datasets_a ll/kddcup - rootkit - imap_v s_back.dat$		$1.000 \pm 0.001$	$1.000 \pm 0.001$	$0.999 \pm 0.001$	$0.999 \pm 0.001$	$0.999 \pm 0.001$	$0.999 \pm 0.001$				0.999 ±
$datasets_all/winequality - red - 8_v s_6.dat$		$0.962 \pm 0.004$	$0.963 \pm 0.003$	$0.963 \pm 0.004$	$0.963 \pm 0.004$	$0.963 \pm 0.004$	$0.964 \pm 0.003$			$0.962 \pm 0.004$	0.962 ±
$datasets_{s}ll/flare - F.dat$		$0.940 \pm 0.003$	$0.940 \pm 0.003$	$0.940 \pm 0.005$	$0.939 \pm 0.003$	$0.940 \pm 0.004$		$0.940 \pm 0.001$		$0.941 \pm 0.003$	
datasetsall/glass4.dat		$0.941 \pm 0.025$	$0.945 \pm 0.024$	$0.929 \pm 0.019$	$0.929 \pm 0.019$	$0.929 \pm 0.019$	$0.932 \pm 0.020$	$0.935 \pm 0.019$		$0.948 \pm 0.019$	
$datasets_a ll/haberman.dat$		$0.664 \pm 0.030$	$0.663 \pm 0.030$	$0.666 \pm 0.035$	$0.670 \pm 0.030$	$0.661 \pm 0.036$	$0.648 \pm 0.033$			$0.664 \pm 0.033$	
$datasets_{\sigma}ll/poker - 8 - 9_{\sigma}s_{6}.dat$		$0.977 \pm 0.003$	$0.978 \pm 0.004$	$0.977 \pm 0.003$	$0.977 \pm 0.003$	$0.977 \pm 0.003$	$0.975 \pm 0.001$	$0.975 \pm 0.001$		$0.978 \pm 0.004$	
$datasets_a ll/yeast - 1 - 4 - 5 - 8_v s_7.dat$		$0.934 \pm 0.002$	$0.933 \pm 0.004$	$0.935 \pm 0.002$	$0.935 \pm 0.002$	$0.935 \pm 0.002$	$0.935 \pm 0.000$	$0.935 \pm 0.000$	$0.917 \pm 0.008$	$0.934 \pm 0.004$	
$datasets_a ll/ecoli - 0 - 2 - 6 - 7_v s_3 - 5.dat$		$0.912 \pm 0.041$	$0.916 \pm 0.036$	$0.908 \pm 0.032$	$0.908 \pm 0.032$	$0.908 \pm 0.032$	$0.876 \pm 0.034$	$0.877 \pm 0.023$		$0.941 \pm 0.017$	
$datasets_oll/glass - 0 - 1 - 6_os_2, dat$		$0.875 \pm 0.017$	$0.876 \pm 0.018$	$0.876 \pm 0.015$	$0.876 \pm 0.015$	$0.873 \pm 0.013$	$0.867 \pm 0.012$		$0.854 \pm 0.023$	$0.878 \pm 0.024$	$0.873 \pm$
datasets <sub>a</sub> ll/yeast4.dat		$0.952 \pm 0.003$	$0.953 \pm 0.005$	$0.954 \pm 0.003$	$0.954 \pm 0.003$	$0.954 \pm 0.003$	$0.950 \pm 0.002$	$0.949 \pm 0.001$		$0.956 \pm 0.005$	
$datasets_a ll/page - blocks0.dat$		$0.969 \pm 0.003$	$0.969 \pm 0.003$	$0.968 \pm 0.003$	$0.968 \pm 0.003$	$0.967 \pm 0.004$				$0.971 \pm 0.002$	
$tasets_n ll/ecoli - 0 - 1 - 4 - 7_v s_2 - 3 - 5 - 6_v dat$		$0.935 \pm 0.015$	$0.940 \pm 0.014$	$0.928 \pm 0.019$	$0.928 \pm 0.019$	$0.925 \pm 0.017$	$0.893 \pm 0.011$	$0.900 \pm 0.020$	$0.938 \pm 0.018$	$0.949 \pm 0.011$	0.945 ±
$datasets_a ll/poker - 8_a s_6.dat$		$0.984 \pm 0.003$	$0.984 \pm 0.003$	$0.983 \pm 0.001$	$0.983 \pm 0.001$	$0.983 \pm 0.001$	$0.983 \pm 0.001$	$0.983 \pm 0.001$			
datasets <sub>a</sub> ll/ecoli1.dat		$0.000 \pm 0.000$				$0.000 \pm 0.000$					
datasets_ll/glass0.dat		$0.837 \pm 0.020$	$0.833 \pm 0.035$	$0.833 \pm 0.028$	$0.833 \pm 0.028$	$0.829 \pm 0.029$				$0.821 \pm 0.030$	
$datasets_all/winequality - red - 4.dat$		$0.949 \pm 0.001$	$0.949 \pm 0.002$	$0.951 \pm 0.002$	$0.951 \pm 0.002$	$0.950 \pm 0.002$	$0.951 \pm 0.001$	$0.950 \pm 0.001$		$0.949 \pm 0.003$	
datasets <sub>a</sub> ll/pima.dat		$0.711 \pm 0.027$	$0.700 \pm 0.020$	$0.708 \pm 0.026$	$0.718 \pm 0.010$	$0.703 \pm 0.017$				$0.728 \pm 0.014$	
$datasets_{o}ll/abalone - 19_{o}s_{1}0 - 11 - 12 - 13_{o}dat$		$0.970 \pm 0.002$	$0.971 \pm 0.002$	$0.970 \pm 0.001$	$0.970 \pm 0.001$	$0.970 \pm 0.001$				$0.970 \pm 0.001$	
datasets.ll/ecoli2.dat		0,000 ± 0,000	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$				0,000 ± 0,000	
$datasets_a ll/abalone9 - 18.dat$		$0.934 \pm 0.008$	$0.933 \pm 0.009$	$0.924 \pm 0.005$	$0.924 \pm 0.005$	$0.923 \pm 0.005$				$0.930 \pm 0.010$	
$datasets_oll/yeast - 1 - 2 - 8 - 9_os_7.dat$		$0.955 \pm 0.005$	$0.955 \pm 0.004$	$0.954 \pm 0.004$	$0.954 \pm 0.004$	$0.954 \pm 0.004$				$0.955 \pm 0.004$	
$datasets_all/winequality - white - 3_vs_7.dat$		$0.973 \pm 0.005$	$0.973 \pm 0.004$	$0.972 \pm 0.004$	$0.972 \pm 0.004$	$0.972 \pm 0.004$	$0.969 \pm 0.002$	$0.969 \pm 0.004$		$0.975 \pm 0.005$	
$datasets_a ll/yeast - 2_v s_4.dat$		$0.942 \pm 0.012$	$0.939 \pm 0.011$	$0.945 \pm 0.012$	$0.945 \pm 0.012$	$0.945 \pm 0.012$				$0.947 \pm 0.005$	
$datasets_all/winequality - red - 3_vs_5.dat$		$0.977 \pm 0.002$	$0.977 \pm 0.002$	$0.978 \pm 0.001$	$0.978 \pm 0.001$	$0.978 \pm 0.001$				$0.977 \pm 0.002$	
datasets <sub>a</sub> ll/qlass2.dat		$0.889 \pm 0.016$	$0.886 \pm 0.015$	$0.888 \pm 0.015$	$0.888 \pm 0.015$	$0.888 \pm 0.015$	$0.887 \pm 0.016$	$0.884 \pm 0.010$		$0.892 \pm 0.023$	
$datasets_a ll/yeast - 2_v s_s.dat$		$0.964 \pm 0.014$	$0.964 \pm 0.014$	$0.945 \pm 0.013$	$0.945 \pm 0.013$	$0.945 \pm 0.013$	$0.939 \pm 0.003$	$0.939 \pm 0.003$		$0.964 \pm 0.010$	
datasets <sub>a</sub> ll/qlass1.dat		$0.784 \pm 0.038$	$0.777 \pm 0.041$	$0.767 \pm 0.024$	$0.767 \pm 0.024$	$0.759 \pm 0.028$				$0.779 \pm 0.046$	
datasets_ll/zoo - 3.dat		$0.936 \pm 0.026$	$0.936 \pm 0.026$	$0.933 \pm 0.026$	$0.933 \pm 0.026$	$0.933 \pm 0.026$	$0.927 \pm 0.014$			$0.940 \pm 0.024$	
$datasets_a ll/glass - 0 - 1 - 5_u s_2.dat$		$0.857 \pm 0.020$	$0.862 \pm 0.022$	$0.851 \pm 0.011$	$0.851 \pm 0.011$	$0.851 \pm 0.011$				$0.875 \pm 0.021$	
$datasets_a ll/abalone - 20_v s_8 - 9 - 10.dat$		$0.981 \pm 0.002$	$0.981 \pm 0.002$	$0.980 \pm 0.001$	$0.980 \pm 0.001$	$0.980 \pm 0.001$				$0.981 \pm 0.003$	
$datasets_a ll/kddcup - buffer_overflow_vs_back.dat$		$1.000 \pm 0.001$	$1.000 \pm 0.001$	$0.998 \pm 0.002$	$0.998 \pm 0.002$	$0.998 \pm 0.002$	$0.998 \pm 0.002$			$0.981 \pm 0.003$ $1.000 \pm 0.000$	
$datasets_a ll/winequality - white - 3 - 9_v s_5.dat$		$0.974 \pm 0.002$	$0.974 \pm 0.002$	$0.975 \pm 0.002$	$0.975 \pm 0.002$	$0.974 \pm 0.002$				$0.977 \pm 0.004$	
$datasets_a ll/winequality - white - 3 - 9_v s_5.aat$ $datasets_a ll/vehicle3.dat$		0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000				$0.977 \pm 0.004$ $0.000 \pm 0.000$	
$datasets_a ll/vehicle1.dat$		$0.000 \pm 0.000$				$0.000 \pm 0.000$					
$aatasets_a u/venicie1.aat$ $datasets_a u/paqe - blocks - 1 - 3_v s_4.dat$		$0.988 \pm 0.000$	$0.988 \pm 0.010$	0.986 ± 0.009	$0.986 \pm 0.009$	$0.986 \pm 0.009$				$0.989 \pm 0.005$	
$datasets_a ll/ecoli - 0 - 6 - 7_v s_4.aat$ $datasets_a ll/ecoli - 0 - 6 - 7_v s_5.dat$		$0.988 \pm 0.010$ $0.921 \pm 0.047$	$0.988 \pm 0.010$ $0.921 \pm 0.047$	$0.986 \pm 0.009$ $0.927 \pm 0.023$	$0.986 \pm 0.009$ $0.927 \pm 0.023$	$0.986 \pm 0.009$ $0.927 \pm 0.023$				$0.989 \pm 0.003$ $0.953 \pm 0.022$	
					0.021 ± 0.023						
	$0.099 \pm 0.001$										
$datasets_a ll/poker - 8 - 9_v s_5.dat$ $datasets_a ll/yeast - 0 - 3 - 5 - 9_v s_7 - 8.dat$		$0.982 \pm 0.001$ $0.880 \pm 0.012$	$0.982 \pm 0.001$ $0.881 \pm 0.009$	$0.982 \pm 0.001$ $0.870 \pm 0.011$	$0.982 \pm 0.001$ $0.870 \pm 0.011$	$0.982 \pm 0.001$ $0.872 \pm 0.009$	$0.982 \pm 0.001$ $0.857 \pm 0.006$			$0.982 \pm 0.001$ $0.876 \pm 0.007$	

Table 3. Gmean

dataset_all_principality = white r_all_principality = white r_all_princip	Detect name	DF Forest on	DE Forest AUC	DF Forest has	DF Forest on h	DE Forest AUC I	DF Forest bee b	RandomFS	RandomFS-b	DT	RF	RF-b
datasets,												
datasets,   riempinity  = rel - S. s.a T. data   0.30 ± 0.00												
Section   Column												$0.271 \pm 0.104$
datasets,												
dataset_all_ read = 0 - 1 - 2 - 3 - 5 - 5 dat   0.72 ± 0.005   0.71 ± 0.007   0.73 ± 0.007   0								$0.165 \pm 0.039$				
datasets,	$datasets_a ll/clevel and -0_v s_4.dat$	$0.479 \pm 0.166$	$0.464 \pm 0.124$	$0.459 \pm 0.142$	$0.520 \pm 0.185$	$0.520 \pm 0.185$	$0.499 \pm 0.201$	$0.320 \pm 0.086$	$0.342 \pm 0.094$	$0.585 \pm 0.096$	$0.526 \pm 0.186$	$0.502 \pm 0.166$
dataset_all_ labelmer = -2 is_s, and model   0.595 ± 0.110	$datasets_a ll/ecoli - 0 - 1_v s_2 - 3 - 5.dat$	$0.723 \pm 0.094$	$0.722 \pm 0.095$	$0.744 \pm 0.085$	$0.718 \pm 0.097$	$0.718 \pm 0.097$	$0.718 \pm 0.097$	$0.563 \pm 0.119$	$0.503 \pm 0.109$	$0.795 \pm 0.069$	$0.791 \pm 0.067$	$0.753 \pm 0.072$
Adaptives,	$datasets_all/yeast - 1_v s_7.dat$	$0.412 \pm 0.080$	$0.401 \pm 0.101$	$0.466 \pm 0.111$	$0.415 \pm 0.077$	$0.415 \pm 0.077$	$0.359 \pm 0.089$	$0.275 \pm 0.058$	$0.266 \pm 0.040$	$0.601 \pm 0.079$	$0.449 \pm 0.068$	$0.402 \pm 0.068$
datasets.												
$ \frac{datasets_{n}   plass = 0-1-4-6_{n,p,s}  abs }{datasets_{n}   peast = 0-1-4-6_{n,p,s}  abs } = 0.56 = 0.77 \pm 0.081 \\ 20.031 \pm 0.071 \\ 20.032 \pm 0.003 \pm 0.032 \pm 0.011 \\ 20.032 \pm 0.003 \pm 0.003 \pm 0.003 \\ 20.032 \pm 0.003 \\ $												
$ \frac{datasets_{n}                                    $												
$ \frac{datasets_{ii} I/set or = -k - rev_{io,s,ii} I/set or = -k - r$												
$ \frac{datasets_{h}   deblay - coolds i - negro - r_{h, s_0} - S_{h}dt \ 0.749 \pm 0.081 \\ datasets_{h}    deblay - coolds i - negro - r_{h}deblay - r_{h}debl$												
$ \frac{datasets_{n}                                    $												
$ \frac{datasets_{s}[I][flarer-Falat 0.290 \pm 0.007}{datasets_{s}[I][glassAuf olice 1.25][glassAuf olice 1.25][glassAu$												
$ \frac{datasets_{s}[I]glassAuta}{datasets_{s}[I]grassAuta} = 0.612\pm0.164 \\ 0.632\pm0.029 \pm 0.185 \\ 0.632\pm0.014 \\ 0.632$												
$ \frac{datasets_{ii}     hodermondat}{datasets_{ii}     hodermondatasets_{ii}     hodermondata$												
$ \frac{datasets_{A} Ijosch 8 - 9_{sol} data}{datasets_{A} Ijosch - 1 - 1 - 1 - 3_{sol} data}{datasets_{A} Ijosch - 1 - 1 - 1 - 1 - 3_{sol} data} = 0.033 \pm 0.011 0.033 \pm 0.011 0.034 \pm 0.035 \pm 0.036 0.038 \pm 0$												
$ \frac{datasets_{i,i}  codi - 0 - 2 - 6 - \tau_{i,s - s} - 5dat \ 0.633 \pm 0.026 \ 0.633 \pm 0.035 \ 0.086 \ 0.35 \pm 0.086 \ 0.35 \pm 0.086 \ 0.35 \pm 0.086 \ 0.36 \pm 0.086 \ 0.38 \pm 0.0$												
$\frac{i}{atasets_{s}    post   Ada   }{atasets_{s}    post   Ada   Ada   }{atasets_{s}    post   Ada   }{atasets_{s}    post   Ada   A$				$0.648 \pm 0.202$	$0.591 \pm 0.158$	$0.591 \pm 0.158$	$0.591 \pm 0.158$	$0.440 \pm 0.176$	$0.419 \pm 0.108$	$0.779 \pm 0.082$	$0.772 \pm 0.088$	$0.752 \pm 0.058$
$ \begin{aligned} & datasets_{s,l} \  /   coli - 1 - 1 - 7 - 3 - 5 - 5 - 6 dat & 0.89 \pm 0.016 & 0.89 \pm 0.016 & 0.88 \pm 0.013 &$					$0.327 \pm 0.065$	$0.327 \pm 0.065$	$0.312 \pm 0.057$	$0.320 \pm 0.066$				$0.324 \pm 0.065$
$\frac{datasets_{s}   ecoli - O - 1 - 4 - 7.s_2 - 3 - 5 - 6.dat}{datasets_{s}   ecoli - O - 1 - 5.s_2 - 4.dat} = 0.000 + $	datasets <sub>a</sub> ll/yeast4.dat	$0.385 \pm 0.123$	$0.381 \pm 0.104$	$0.380 \pm 0.108$	$0.339 \pm 0.075$	$0.343 \pm 0.078$	$0.322 \pm 0.077$	$0.219 \pm 0.059$	$0.182 \pm 0.002$	$0.517\pm0.083$	$0.422 \pm 0.090$	$0.353 \pm 0.061$
$ \frac{datasets_{s} I peber - 8_{s, s}dat}{datasets_{s} I pests - 1 - 3_{s} dat} = 0.18 \pm 0.18 \pm 0.18 \\ datasets_{s} I call_{local} to 0.000 \pm 0.000 \pm 0.000 \\ datasets_{s} I pests - 1 - 2_{s, s}dat} = 0.18 \pm 0.18 \\ datasets_{s} I pests - 2_{s, s}dat} = 0.18 \pm 0.18 \\ datasets_{s} I pests - 2_{s, s}dat} = 0.18 \pm 0.18 \\ datasets_{s} I pests - 2_{s, s}dat} = 0.18 \pm 0.18 \\ datasets_{s} I pests - 2_{s, s}dat} = 0.18 \pm 0.18 \\ datasets_{s} I pests - 2_{s, s}dat} = 0.06 \pm 0.000 \\ datasets_{s} I pests - 2_{s, s}dat} = 0.06 \pm 0.000 \\ datasets_{s} I pests - 2_{s, s}dat} = 0.06 \pm 0.000 \\ datasets_{s} I pests - 2_{s, s}dat} = 0.06 \pm 0.000 \\ datasets_{s} I pests - 2_{s, s}dat} = 0.06 \pm 0.000 \\ datasets_{s} I p$	$datasets_a ll/page-blocks 0.dat$	$0.896 \pm 0.016$	$0.895 \pm 0.018$	$0.893 \pm 0.015$	$0.882 \pm 0.014$	$0.882 \pm 0.014$	$0.879 \pm 0.024$	$0.847 \pm 0.021$	$0.848 \pm 0.025$	$0.901 \pm 0.017$	$0.906 \pm 0.016$	$0.903 \pm 0.012$
$ \frac{datasets_{s}     cold    Ada to $	$datasets_a ll/ecoli - 0 - 1 - 4 - 7_v s_2 - 3 - 5 - 6.dat$	$0.731 \pm 0.095$	$0.682 \pm 0.094$	$0.714 \pm 0.080$	$0.621 \pm 0.125$	$0.621 \pm 0.125$	$0.604 \pm 0.113$	$0.419 \pm 0.057$	$0.457 \pm 0.112$	$0.822\pm0.060$	$0.763 \pm 0.061$	$0.718 \pm 0.062$
$ \frac{datasets_{st}                                      $			$0.184 \pm 0.163$	$0.184 \pm 0.163$	$0.107 \pm 0.003$	$0.107 \pm 0.003$						
	$datasets_a ll/ecoli1.dat$	$0.000\pm0.000$	$0.000 \pm 0.000$									
$\frac{datasets_{s}   abclome}{datasets_{s}   abclome} = 10s_{s} \cdot 0 - 11 - 2 - 13 - 24s \cdot 10 \cdot 13 \pm 0.013 \\ datasets_{s}   abclome   abclo$	$datasets_a ll/glass 0.dat$	$0.796 \pm 0.044$	$0.795 \pm 0.025$	$0.796 \pm 0.048$	$0.791 \pm 0.041$	$0.791 \pm 0.041$	$0.783 \pm 0.042$	$0.784 \pm 0.033$				$0.773 \pm 0.066$
$ \frac{datasets_{h}                                      $												
$ \frac{datasets_{i,l} l_{index} - l_{index}}{datasets_{i,l} l_{index} - l_{index}} - l_{index} - l_{inde$												
$ \frac{datasets_{s,l}  gast - 1 - 2 - 8 - 9, s-fat}{datasets_{s,l}  female - 3, s-fat} = 0.322 \pm 0.090 \\ datasets_{s,l}  female - 3, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.332 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.342 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} = 0.042 \pm 0.018 \\ datasets_{s,l}  female - 2, s-fat} $												
$ \frac{datasets, ll/inimequality - white - 3_{sp} - dat 0.393 \pm 0.114 0.488 \pm 0.108 0.435 \pm 0.082 0.346 \pm 0.130 0.346 \pm 0.130 0.326 \pm 0.096 0.227 \pm 0.034 0.511 \pm 0.069 0.499 \pm 0.148 0.388 \pm 0.038 0.498 0.498 \pm 0.038 0.498 0.498 0.498 \pm 0.038 0.49$												
$\frac{datasets_{s}H/ gead - 2_{s,s} dat}{datasets_{s}H/ gead - 2_{s,s} dat} \ 0.76 \pm 0.085 \\ 0.77 \pm 0.060 \\ 0.33 \pm 0.080 \\ 0.32 $												
$ \frac{datasets_{a}l/ sinequality = red - 3_{a}s_{a}s_{a}t \ \ 0.119 \pm 0.000}{datasets_{a}l/ sinequality_{a}s_{a}t_{a}t_{a}t_{b}s_{a}t_{b}t_{a}t_{a}t_{a}t_{a}t_{a}t_{a}t_{a}t_{a$												
$ \frac{datasets_{b}    glass-2  dat}{datasets_{b}    glass-2  dat} = 0.363 \pm 0.000 \\ datasets_{b}     glass-2     cost 3 datasets_{b}           cost 3 datasets_{b}           cost 3 datasets_{b}                                    $	$adtasets_a u/yeast - 2_v s_4.adt$	0.746 ± 0.050										
$ \frac{datasets_{s} I /   yeas i^{2} - 2 s_{s} dat}{datasets_{s} I /   yeas i^{2} - 2 s_{s} dat}{datasets_{s} I /   yeas i^{2} - 2 s_{s} dat} = 0.064 \pm 0.014 + 0.060 \pm 0.018 + 0.060 \pm 0.018 + 0.014 + 0.012 \pm 0.012 + 0.012 \pm 0.012 + 0.013 \pm 0.013 + $												
$datasets_h                                      $												
$ \frac{datasets_{h}  f_{0} so = 0 - 1 - 5_{x_{p}} s_{da}t \ 0.007 \pm 0.028 \ 0.370 \pm 0.224 \ 0.370 \pm 0.224 \ 0.319 \pm 0.198 \ 0.319 \pm 0.198 \ 0.319 \pm 0.198 \ 0.319 \pm 0.198 \ 0.319 \pm 0.018 \ 0.324 \pm 0.055 \ 0.498 \pm 0.105 \ 0.498 \pm 0.022 \ 0.091 \pm 0.220 \ 0.411 \pm 0.028 \ 0.412 \pm 0.028 \ 0.41$												
$\frac{datasets_{s,l}  glass=0-1-5_{s,s}dat\ 0.428\pm0.127\ 0.385\pm0.129\ 0.490\pm0.128\ 0.298\pm0.038\ 0.298\pm0.038\ 0.298\pm0.038\ 0.337\pm0.081\ 0.333\pm0.055\ 0.498\pm0.105\ 0.599\pm0.100\ 0.322\pm0.053\ 0.498\pm0.105\ 0.$												
$\frac{datasets, ll/[addisc) = 0.0f_{exc} = 9 - 1.0 dat \ 0.247 \pm 0.141 \ \ 0.292 \pm 0.121 \ \ 0.248 \pm 0.015 \ \ 0.131 \pm 0.054 \ \ \ 0.131 \pm 0.054 \ \ \ 0.131 \pm 0.054 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$												
$ \frac{datasets_{ii}  fisideny - buf_{fr, rer}  fow_{s, nock dat}  0.933 \pm 0.021 }{datasets_{ii}  rehircl_icl_{id}  color_{i}  } = \frac{0.931 \pm 0.023}{0.0000} = \frac{0.931 \pm 0.023}{0.0000} = \frac{0.931 \pm 0.023}{0.0000} = \frac{0.931 \pm 0.023}{0.0000} = \frac{0.991 \pm 0.089}{0.0000} = \frac{0.911 \pm 0.089}{0.0000} = \frac{0.936 \pm 0.070}{0.0000} = \frac{0.900}{0.0000} = \frac{0.0000}{0.0000} = \frac{0.0000}$												
$ \frac{datasets_a l l / wine quality - white - 3 - 9_{sp.} dat \ 0.147 \pm 0.055 \\ datasets_b l l / white l / 3.4d \ 0.000 \pm 0.000 \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \pm 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \\ datasets_b l / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / white l / 3.4d \ 0.000 \\ datasets_b / whit$												
$\frac{datasets_h    rehiclé. Aut 0.000 \pm 0.000}{datasets_h   rehiclé. Aut 0.000 \pm 0.000}  0.000 \pm 0.000  0.000$												
$\frac{datasets_{*}  /enhic4  .dat.0000\pm0.000}{datasets_{*}  /enhic4  .dat.0000\pm0.000} = 0.0000\pm0.0000 = $												
$\frac{datasets_{s,ll}/rape-blocks-1-3_{s,k}.dat}{datasets_{s,ll}/rape-blocks-1-0-6-7_{s,k}.dat} \ 0.999\pm0.0698 \ 0.931\pm0.088 \ 0.931\pm0.088 \ 0.995\pm0.051 \ 0.995\pm0.051 \ 0.995\pm0.051 \ 0.885\pm0.044 \ 0.899\pm0.084 \ 0.084\pm0.245 \ 0.686\pm0.240 \ 0.885\pm0.241 \ 0.995\pm0.081 \ 0.885\pm0.044 \ 0.899\pm0.084 \ 0.080\pm0.081 \ 0.995\pm0.081 \ 0.995\pm0.081 \ 0.885\pm0.044 \ 0.899\pm0.084 \ 0.995\pm0.081 \ 0.885\pm0.044 \ 0.899\pm0.084 \ 0.995\pm0.081 \ 0.885\pm0.044 \ 0.899\pm0.084 \ 0.995\pm0.081 \ 0.995\pm0.081 \ 0.885\pm0.044 \ 0.899\pm0.084 \ 0.995\pm0.081 \ 0.995\pm0.081 \ 0.885\pm0.044 \ 0.899\pm0.084 \ 0.995\pm0.081 \ 0.995\pm0.081 \ 0.995\pm0.081 \ 0.885\pm0.044 \ 0.899\pm0.084 \ 0.995\pm0.081 \ 0.995\pm0.081 \ 0.995\pm0.081 \ 0.885\pm0.044 \ 0.899\pm0.084 \ 0.995\pm0.081 \ 0.9$												
$datasets_a ll/ecoli - 0 - 6 - 7_v s_5. dat  0.668 \pm 0.220  0.644 \pm 0.245  0.644 \pm 0.245  0.637 \pm 0.121  0.637 \pm 0.121  0.637 \pm 0.121  0.436 \pm 0.103  0.481 \pm 0.114  \textbf{0.822} \pm \textbf{0.080}  0.807 \pm 0.101  0.776 \pm 0.128  0.807 \pm 0.101  0.807 \pm 0.121  0.807 \pm 0$												
								$0.436 \pm 0.103$				$0.776 \pm 0.128$
$datasets_a U/poker - 8 - 9_v s_5. dat 0.109 \pm 0.002 0.129 \pm 0.058 0.129 \pm 0.058 0.129 \pm 0.059 0.109 \pm 0.002 0.109 \pm 0.002 0.109 \pm 0.002 0.109 \pm 0.002 0.405 \pm 0.168 0.149 \pm 0.078 0.109 \pm 0.002$			$0.129 \pm 0.058$	$0.129 \pm 0.058$	$0.129 \pm 0.059$	$0.109 \pm 0.002$	$0.109 \pm 0.002$					$0.109 \pm 0.002$
$datasets_a ll/yeast - 0 - 3 - 5 - 9_v s_7 - 8.dat  0.473 \pm 0.045  0.474 \pm 0.059  0.472 \pm 0.053  0.403 \pm 0.068  0.403 \pm 0.068  0.409 \pm 0.054  0.313 \pm 0.031  0.313 \pm 0.031  0.567 \pm 0.069  0.471 \pm 0.030  0.469 \pm 0.065  0.403 \pm 0.068  0.403 \pm 0.068  0.409 \pm 0.054  0.313 \pm 0.031  0.313 \pm 0.031  0.313 \pm 0.031  0.567 \pm 0.069  0.471 \pm 0.030  0.469 \pm 0.065  0.403 \pm 0.068  0.403 \pm $	$datasets_{-}II/neast_{-}0 - 3 - 5 - 9s_{7} - 8 dat$	$0.473 \pm 0.045$	$0.474 \pm 0.059$	$0.472 \pm 0.053$	$0.403 \pm 0.068$	$0.403 \pm 0.068$	$0.409 \pm 0.054$	$0.313 \pm 0.031$	$0.313 \pm 0.031$	$0.567 \pm 0.069$	$0.471 \pm 0.030$	$0.469 \pm 0.065$

Table 4. Precision

Detect name	DE Foncet em	DE Forest AUC	DE Forest has	DE Forest sm b	DE-Forest-AUC-b	DF Forest has b	DandomFC	RandomFS-b	DT	RF	RF-b
datasets <sub>a</sub> ll/glass5.dat		0.952 ± 0.026	0.954 ± 0.027	0.922 ± 0.019	0.922 ± 0.019	0.922 ± 0.019	0.945 ± 0.027	0.932 ± 0.026		0.965 ± 0.019	
$datasets_a ll/winequality - white - 9_v s_4.dat$		$0.949 \pm 0.020$	$0.949 \pm 0.020$	$0.953 \pm 0.023$	0.953 ± 0.023	0.953 ± 0.023	$0.941 \pm 0.027$		$0.951 \pm 0.016$		
$datasets_all/winequality - red - 8_ss_6 - 7.dat$		$0.972 \pm 0.020$	$0.972 \pm 0.020$	$0.981 \pm 0.003$	0.981 ± 0.003	0.981 ± 0.003			$0.963 \pm 0.002$		
datasets.ll/yeast1.dat		$0.720 \pm 0.008$	$0.711 \pm 0.014$	$0.701 \pm 0.011$	$0.703 \pm 0.013$	$0.703 \pm 0.014$	$0.707 \pm 0.091$	$0.698 \pm 0.060$		$0.743 \pm 0.011$	
datasets <sub>a</sub> ll/yeast6.dat		$0.973 \pm 0.003$	$0.972 \pm 0.003$	$0.971 \pm 0.007$	$0.971 \pm 0.007$	$0.972 \pm 0.007$	$0.956 \pm 0.008$	$0.961 \pm 0.012$			$0.978 \pm 0.005$
$datasets_a ll/cleveland - 0_a s_4.dat$		$0.920 \pm 0.030$	$0.912 \pm 0.037$	$0.924 \pm 0.041$	$0.924 \pm 0.041$	$0.916 \pm 0.044$	$0.874 \pm 0.037$	$0.888 \pm 0.045$	$0.906 \pm 0.019$	$0.915 \pm 0.042$	$0.927 \pm 0.038$
$datasets_a ll/ecoli - 0 - 1_v s_2 - 3 - 5.dat$		$0.936 \pm 0.023$	$0.939 \pm 0.024$	$0.944 \pm 0.013$	$0.944 \pm 0.013$	$0.944 \pm 0.013$	$0.931 \pm 0.019$	$0.909 \pm 0.048$		$0.953 \pm 0.007$	
$datasets_all/yeast - 1_v s_7.dat$	$0.911 \pm 0.021$	$0.911 \pm 0.024$	$0.917 \pm 0.021$	$0.920 \pm 0.022$	$0.920 \pm 0.022$	$0.912 \pm 0.029$	$0.888 \pm 0.029$	$0.884 \pm 0.022$	$0.914 \pm 0.008$	$0.917 \pm 0.015$	$0.914 \pm 0.018$
$datasets_a ll/abalone - 21_v s_8.dat$	$0.974 \pm 0.007$	$0.974 \pm 0.007$	$0.974 \pm 0.007$	$0.972 \pm 0.012$	$0.972 \pm 0.012$	$0.972 \pm 0.012$	$0.970 \pm 0.013$	$0.964 \pm 0.013$	$0.970 \pm 0.006$	$0.979 \pm 0.007$	$0.978 \pm 0.007$
$datasets_all/abalone 19.dat$	$0.985 \pm 0.000$	$0.985 \pm 0.000$	$0.985 \pm 0.000$	$0.985 \pm 0.000$	$0.985 \pm 0.000$	$0.985 \pm 0.000$	$0.985\pm0.000$	$0.985 \pm 0.000$	$0.985 \pm 0.000$	$0.985\pm0.001$	$0.985 \pm 0.000$
$datasets_a ll/poker - 9_v s_7.dat$	$0.959 \pm 0.024$	$0.959 \pm 0.024$	$0.959 \pm 0.024$	$0.936 \pm 0.000$	$0.940 \pm 0.012$	$0.940 \pm 0.012$	$0.952\pm0.020$	$0.938 \pm 0.007$	$0.957 \pm 0.017$	$0.968\pm0.021$	$0.940 \pm 0.012$
$datasets_a ll/ecoli 3.dat$	$0.911 \pm 0.015$	$0.905 \pm 0.021$	$0.906 \pm 0.013$	$0.906 \pm 0.022$	$0.906 \pm 0.022$	$0.910 \pm 0.022$	$0.837\pm0.048$		$0.902 \pm 0.016$		
$datasets_a ll/abalone - 17_v s_7 - 8 - 9 - 10.dat$		$0.963 \pm 0.006$	$0.965 \pm 0.005$	$0.968 \pm 0.009$	$0.968 \pm 0.009$	$0.966 \pm 0.006$	$0.952\pm0.003$				
$datasets_a ll/glass - 0 - 1 - 6_v s_5.dat$		$0.958 \pm 0.023$	$0.958 \pm 0.023$	$0.951 \pm 0.025$	$0.951 \pm 0.025$	$0.951 \pm 0.025$	$0.952\pm0.035$		$0.970 \pm 0.019$		
$datasets_a ll/ecoli - 0 - 1 - 3 - 7_v s_2 - 6.dat$		$0.963 \pm 0.018$	$0.963 \pm 0.018$	$0.961 \pm 0.018$	$0.961 \pm 0.018$	$0.961 \pm 0.018$	$0.952 \pm 0.009$		$0.973 \pm 0.012$		
$datasets_a ll/yeast - 0 - 2 - 5 - 6_v s_3 - 7 - 8 - 9.dat$		$0.909 \pm 0.013$	$0.909 \pm 0.015$	$0.912 \pm 0.012$	$0.912 \pm 0.012$	$0.909 \pm 0.013$	$0.877 \pm 0.034$	$0.889 \pm 0.032$		$0.918 \pm 0.011$	
$datasets_a ll/yeast5.dat$		$0.977 \pm 0.005$	$0.976 \pm 0.006$	$0.973 \pm 0.006$	$0.973 \pm 0.006$	$0.973 \pm 0.006$			$0.976 \pm 0.007$		
$datasets_a ll/glass - 0 - 1 - 4 - 6_v s_2.dat$		$0.855 \pm 0.021$	$0.854 \pm 0.020$	$0.850 \pm 0.027$	$0.850 \pm 0.027$	$0.850 \pm 0.027$			$0.859 \pm 0.019$		
$datasets_a ll/yeast - 0 - 5 - 6 - 7 - 9_v s_4.dat$		$0.892 \pm 0.020$	$0.892 \pm 0.014$	$0.889 \pm 0.015$	$0.889 \pm 0.015$	$0.889 \pm 0.015$	$0.821 \pm 0.017$				$0.900\pm0.018$
$datasets_all/yeast3.dat$		$0.933 \pm 0.009$	$0.935 \pm 0.006$	$0.929 \pm 0.009$	$0.929 \pm 0.009$	$0.932 \pm 0.009$			$0.934 \pm 0.008$		
$datasets_a ll/kr - vs - k - zero_v s_e ight.dat$		$0.993 \pm 0.006$	$0.993 \pm 0.006$	$0.994 \pm 0.003$	$0.995 \pm 0.003$	$0.995 \pm 0.003$		$0.963 \pm 0.001$		$0.997 \pm 0.003$	
$datasets_a ll/ecoli - 0 - 6 - 7_v s_3 - 5.dat$		$0.936 \pm 0.016$	$0.936 \pm 0.016$	$0.915 \pm 0.025$	$0.915 \pm 0.025$	$0.917 \pm 0.026$	$0.855 \pm 0.049$	$0.855 \pm 0.037$			$0.958 \pm 0.012$
$datasets_a ll/kddcup-rootkit-imap_v s_b ack.dat$		$1.000 \pm 0.001$	$1.000 \pm 0.001$	$0.999 \pm 0.001$	$0.999 \pm 0.001$	$0.999 \pm 0.001$			$1.000 \pm 0.000$		
$datasets_all/winequality - red - 8_vs_6.dat$		$0.966 \pm 0.010$	$0.966 \pm 0.009$	$0.962 \pm 0.011$	$0.962 \pm 0.011$				$0.956 \pm 0.006$		
$datasets_a ll/flare - F.dat$		$0.930 \pm 0.008$	0.930 ± 0.008	$0.932 \pm 0.008$	$0.933 \pm 0.012$	$0.930 \pm 0.009$		$0.921 \pm 0.002$		$0.937 \pm 0.004$	
datasets <sub>a</sub> ll/glass4.dat datasets <sub>a</sub> ll/haberman.dat		$0.943 \pm 0.027$ $0.657 \pm 0.034$	$0.946 \pm 0.026$ $0.655 \pm 0.034$	$0.933 \pm 0.027$ $0.655 \pm 0.043$	$0.933 \pm 0.027$ $0.659 \pm 0.036$	$0.933 \pm 0.027$ $0.649 \pm 0.045$	$0.936 \pm 0.026$ $0.632 \pm 0.067$		$0.951 \pm 0.020$ $0.659 \pm 0.031$		
$datasets_a u/naoerman.aat$ $datasets_a ll/poker - 8 - 9_v s_6.dat$		$0.037 \pm 0.034$ $0.974 \pm 0.010$	$0.976 \pm 0.034$	$0.976 \pm 0.043$	$0.059 \pm 0.036$ $0.976 \pm 0.010$	$0.976 \pm 0.045$	$0.967 \pm 0.001$	$0.967 \pm 0.094$			
$aatasets_a ll/poker - 8 - 9_v s_6.aat$ $datasets_a ll/yeast - 1 - 4 - 5 - 8_v s_7.dat$		$0.914 \pm 0.010$ $0.915 \pm 0.000$	$0.916 \pm 0.010$ $0.917 \pm 0.005$	$0.919 \pm 0.008$	$0.919 \pm 0.008$	$0.976 \pm 0.010$ $0.919 \pm 0.008$	$0.967 \pm 0.001$ $0.915 \pm 0.000$		$0.971 \pm 0.004$ $0.920 \pm 0.004$		
$datasets_a ll/ecoli - 0 - 2 - 6 - 7_v s_3 - 5.dat$		$0.904 \pm 0.056$	$0.909 \pm 0.052$	$0.917 \pm 0.003$ $0.917 \pm 0.042$	$0.917 \pm 0.042$	$0.917 \pm 0.003$			$0.936 \pm 0.004$		
$datasets_a ll/glass - 0 - 1 - 6_v s_2.dat$		$0.853 \pm 0.032$	$0.854 \pm 0.032$	$0.859 \pm 0.042$	$0.859 \pm 0.042$	$0.850 \pm 0.040$	$0.847 \pm 0.031$				
datasets <sub>a</sub> ll/yeast4.dat		$0.947 \pm 0.002$	$0.949 \pm 0.002$	$0.954 \pm 0.011$	$0.954 \pm 0.010$	$0.954 \pm 0.014$			$0.949 \pm 0.005$		
$datasets_a ll/page - blocks 0.dat$		$0.969 \pm 0.003$	$0.969 \pm 0.003$	$0.968 \pm 0.003$	$0.968 \pm 0.003$	$0.967 \pm 0.004$	$0.961 \pm 0.004$		$0.965 \pm 0.003$		
$datasets_a ll/ecoli - 0 - 1 - 4 - 7_v s_2 - 3 - 5 - 6.dat$		$0.939 \pm 0.013$	$0.942 \pm 0.015$	$0.937 \pm 0.018$	$0.937 \pm 0.018$	$0.937 \pm 0.018$			$0.942 \pm 0.016$		
$datasets_all/poker - 8_vs_6.dat$		$0.980 \pm 0.006$	$0.980 \pm 0.006$	$0.977 \pm 0.001$	$0.977 \pm 0.001$	$0.977 \pm 0.001$			$0.979 \pm 0.006$		
datasets <sub>a</sub> ll/ecoli1.dat	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$
datasets <sub>a</sub> ll/glass0.dat	$0.836 \pm 0.029$	$0.842 \pm 0.022$	$0.838 \pm 0.037$	$0.840 \pm 0.027$	$0.840 \pm 0.027$	$0.836 \pm 0.027$	$0.828 \pm 0.028$	$0.792 \pm 0.048$	$0.788 \pm 0.028$	$0.826 \pm 0.028$	$0.811 \pm 0.048$
$datasets_all/winequality - red - 4.dat$	$0.938 \pm 0.006$	$0.936 \pm 0.003$	$0.936 \pm 0.004$	$0.941 \pm 0.008$	$0.941 \pm 0.008$	$0.938 \pm 0.006$	$0.938\pm0.011$	$0.935 \pm 0.001$	$0.940 \pm 0.005$	$0.939 \pm 0.005$	$0.939 \pm 0.007$
$datasets_all/pima.dat$		$0.711 \pm 0.027$	$0.700 \pm 0.019$	$0.712 \pm 0.025$	$0.721 \pm 0.011$	$0.705 \pm 0.016$	$0.659\pm0.030$	$0.665 \pm 0.035$		$0.729\pm0.015$	
$datasets_a ll/abalone - 19_v s_1 0 - 11 - 12 - 13.dat$	$0.963 \pm 0.006$	$0.965 \pm 0.008$	$0.965 \pm 0.008$	$0.961 \pm 0.000$	$0.962 \pm 0.002$	$0.961 \pm 0.000$	$0.962 \pm 0.003$				
$datasets_a ll/ecoli2.dat$		$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$				$0.000 \pm 0.000$		
$datasets_all/abalone9 - 18.dat$		$0.932 \pm 0.011$	$0.929 \pm 0.013$	$0.930 \pm 0.019$	$0.930 \pm 0.019$	$0.930 \pm 0.020$	$0.891 \pm 0.009$		$0.919 \pm 0.010$		
$datasets_a ll/yeast - 1 - 2 - 8 - 9_v s_7.dat$		$0.952 \pm 0.012$	$0.954 \pm 0.013$	$0.946 \pm 0.014$	$0.948 \pm 0.014$	$0.948 \pm 0.014$			$0.950 \pm 0.006$		
$datasets_all/winequality - white - 3_v s_7.dat$		$0.973 \pm 0.008$	$0.974 \pm 0.007$	$0.973 \pm 0.010$	$0.973 \pm 0.010$	$0.973 \pm 0.010$	$0.964\pm0.011$		$0.971 \pm 0.010$		
$datasets_a ll/yeast - 2_v s_4.dat$		$0.945 \pm 0.012$	$0.943 \pm 0.010$	$0.946 \pm 0.012$	$0.946 \pm 0.012$	$0.946 \pm 0.012$	$0.915 \pm 0.035$	$0.924 \pm 0.016$			$0.951 \pm 0.009$
$datasets_all/winequality - red - 3_v s_5.dat$		$0.971 \pm 0.000$			$0.973 \pm 0.003$						
$datasets_a ll/glass 2.dat$ $datasets_a ll/yeast - 2_v s_s.dat$		$0.871 \pm 0.027$ $0.965 \pm 0.019$	$0.866 \pm 0.026$ $0.965 \pm 0.019$	$0.862 \pm 0.035$ $0.933 \pm 0.023$	$0.862 \pm 0.035$ $0.933 \pm 0.023$	$0.862 \pm 0.035$ $0.933 \pm 0.023$	$0.873 \pm 0.037$		$0.880 \pm 0.027$ $0.956 \pm 0.011$		
				$0.933 \pm 0.023$ $0.782 \pm 0.023$							
$datasets_a ll/glass1.dat$ $datasets_a ll/zoo - 3.dat$		$0.792 \pm 0.042$ $0.919 \pm 0.038$	$0.782 \pm 0.045$ $0.919 \pm 0.038$	$0.782 \pm 0.023$ $0.915 \pm 0.036$	$0.782 \pm 0.023$ $0.915 \pm 0.036$	$0.773 \pm 0.029$ $0.915 \pm 0.036$	$0.785 \pm 0.041$ $0.904 \pm 0.018$	$0.775 \pm 0.030$ $0.904 \pm 0.018$	$0.736 \pm 0.028$ $0.923 \pm 0.030$		$0.793 \pm 0.053$ $0.933 \pm 0.038$
$datasets_a ll/zoo - 3.dat$ $datasets_a ll/glass - 0 - 1 - 5_u s_2.dat$		$0.919 \pm 0.038$ $0.842 \pm 0.039$	$0.919 \pm 0.038$ $0.851 \pm 0.045$	$0.915 \pm 0.036$ $0.812 \pm 0.011$	$0.915 \pm 0.036$ $0.812 \pm 0.011$	$0.915 \pm 0.036$ $0.812 \pm 0.011$	$0.904 \pm 0.018$ $0.839 \pm 0.038$		$0.923 \pm 0.030$ $0.852 \pm 0.027$		
$aatasets_a ti/gtass - 0 - 1 - 5_v s_2.aat$ $datasets_a ti/gbalone - 20_v s_8 - 9 - 10.dat$		$0.842 \pm 0.039$ $0.978 \pm 0.005$	$0.851 \pm 0.045$ $0.978 \pm 0.005$	$0.812 \pm 0.011$ $0.974 \pm 0.004$	$0.812 \pm 0.011$ $0.974 \pm 0.004$	$0.812 \pm 0.011$ $0.974 \pm 0.004$			$0.852 \pm 0.027$ $0.978 \pm 0.003$		
$aatasets_a t / abatone - 20_v s_8 - 9 - 10.aat$ $datasets_a l l / kddcup - buffer_over flow_v s_back.dat$		$1.000 \pm 0.003$	$1.000 \pm 0.001$	$0.974 \pm 0.004$ $0.999 \pm 0.002$	$0.974 \pm 0.004$ $0.999 \pm 0.002$	$0.974 \pm 0.004$ $0.999 \pm 0.002$			1,000 ± 0,000		
$datasets_a tl/kaacup - out jer_over jtow_v s_b ack.aat$ $datasets_a ll/winequality - white - 3 - 9_v s_5.dat$		$0.968 \pm 0.003$	$0.968 \pm 0.003$	$0.999 \pm 0.002$ $0.967 \pm 0.003$	$0.999 \pm 0.002$ $0.967 \pm 0.003$	$0.999 \pm 0.002$ $0.967 \pm 0.001$			$0.972 \pm 0.004$		
datasets <sub>a</sub> tt/winequatity - white - 3 - 9 <sub>v</sub> s <sub>5</sub> .aat datasets <sub>a</sub> ll/vehicle3.dat		0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000				0.972 ± 0.004 0.000 ± 0.000		
datasets <sub>a</sub> ll/vehicle1.dat		$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$				$0.000 \pm 0.000$		
$datasets_all/page - blocks - 1 - 3_ss_t.dat$		0.988 ± 0.010	$0.988 \pm 0.010$	$0.986 \pm 0.009$	$0.986 \pm 0.009$	0.986 ± 0.009			$0.985 \pm 0.012$		
$datasets_a ll/ecoli - 0 - 6 - 7_v s_5.dat$		$0.915 \pm 0.059$	$0.915 \pm 0.059$	$0.939 \pm 0.021$	$0.939 \pm 0.021$	$0.939 \pm 0.021$			$0.951 \pm 0.012$		
$datasets_a ll/poker - 8 - 9_v s_5.dat$		$0.976 \pm 0.003$	$0.976 \pm 0.003$	$0.977 \pm 0.004$	$0.976 \pm 0.001$	$0.976 \pm 0.001$	$0.976 \pm 0.001$		0.980 ± 0.003		
$datasets_a ll/yeast - 0 - 3 - 5 - 9_v s_7 - 8.dat$		$0.886 \pm 0.024$	$0.887 \pm 0.022$	$0.877 \pm 0.028$	$0.877 \pm 0.028$	$0.884 \pm 0.020$			$0.862 \pm 0.014$		

Table 5. Recall

Detect name	DF Forest em	DE Forest AUC	DF Forest has	DF Forest em h	DE Forest AUC I	DE-Forest-bac-b	DandomFC	RandomFS-b	DT	RF	RF-b
dataset sall/glass5.dat		$0.962 \pm 0.014$	$0.963 \pm 0.014$	0.958 ± 0.006	0.958 ± 0.006	0.958 ± 0.006	$0.963 \pm 0.008$	0.964 ± 0.010		0.971 ± 0.010	
$datasets_a ll/winequality - white - 9_v s_4.dat$		$0.968 \pm 0.013$	$0.968 \pm 0.014$	$0.974 \pm 0.009$	0.974 ± 0.009	0.974 ± 0.009	$0.965 \pm 0.010$	$0.970 \pm 0.006$			0.971 ± 0.006
$datasets_a ll/winequality - red - 8_v s_6 - 7.dat$		$0.978 \pm 0.003$	$0.978 \pm 0.003$	$0.981 \pm 0.001$	$0.955 \pm 0.009$	$0.978 \pm 0.003$	$0.980 \pm 0.002$				
datasets <sub>a</sub> ll/yeast1.dat		$0.741 \pm 0.006$	$0.734 \pm 0.011$	$0.729 \pm 0.008$	$0.730 \pm 0.010$	$0.731 \pm 0.009$	$0.716 \pm 0.008$	$0.717 \pm 0.008$		$0.758 \pm 0.010$	
datasets <sub>a</sub> ll/yeast6.dat		$0.978 \pm 0.003$	$0.977 \pm 0.002$	$0.978 \pm 0.001$	$0.978 \pm 0.001$	$0.978 \pm 0.001$	$0.976 \pm 0.001$	$0.977 \pm 0.001$	$0.968 \pm 0.007$	$0.980 \pm 0.004$	
$datasets_a ll/clevel and -0_v s_4.dat$	$0.928 \pm 0.020$	$0.933 \pm 0.010$	$0.933 \pm 0.011$	$0.941 \pm 0.017$	$0.941 \pm 0.017$	$0.940 \pm 0.018$	$0.923 \pm 0.015$	$0.928 \pm 0.010$	$0.908 \pm 0.026$	$0.939 \pm 0.011$	$0.941 \pm 0.012$
$datasets_a ll/ecoli - 0 - 1_v s_2 - 3 - 5.dat$	$0.940 \pm 0.019$	$0.939 \pm 0.019$	$0.942 \pm 0.020$	$0.943 \pm 0.011$	$0.943 \pm 0.011$	$0.943 \pm 0.011$	$0.929 \pm 0.016$	$0.922 \pm 0.011$	$0.936 \pm 0.012$	$0.952\pm0.007$	$0.950 \pm 0.010$
$datasets_all/yeast - 1_v s_7.dat$	$0.932 \pm 0.012$	$0.934 \pm 0.007$	$0.936 \pm 0.009$	$0.937 \pm 0.006$	$0.937 \pm 0.006$	$0.937 \pm 0.006$	$0.936 \pm 0.003$	$0.932 \pm 0.008$	$0.908 \pm 0.010$	$0.935 \pm 0.006$	$0.936 \pm 0.007$
$datasets_a ll/abalone - 21_v s_8.dat$		$0.976 \pm 0.005$	$0.976 \pm 0.005$	$0.978 \pm 0.004$	$0.978 \pm 0.004$	$0.978 \pm 0.004$	$0.978\pm0.005$	$0.977 \pm 0.003$		$0.979 \pm 0.007$	
$datasets_all/abalone19.dat$		$0.991 \pm 0.001$	$0.991 \pm 0.002$	$0.992 \pm 0.000$	$0.992 \pm 0.000$	$0.992 \pm 0.000$		$0.992 \pm 0.000$	$0.983 \pm 0.003$	$0.992 \pm 0.000$	$0.992 \pm 0.000$
$datasets_a ll/poker - 9_v s_7.dat$		$0.970 \pm 0.014$	$0.970 \pm 0.014$	$0.967 \pm 0.000$	$0.968 \pm 0.002$	$0.968 \pm 0.002$	$0.970 \pm 0.005$			$0.977 \pm 0.007$	
$datasets_a ll/ecoli 3.dat$		$0.910 \pm 0.018$	$0.911 \pm 0.016$	$0.917 \pm 0.014$	$0.917 \pm 0.014$	$0.919 \pm 0.014$	$0.894 \pm 0.010$	$0.900 \pm 0.006$			$0.915 \pm 0.015$
$datasets_a ll/abalone - 17_v s_7 - 8 - 9 - 10.dat$		$0.973 \pm 0.003$	$0.974 \pm 0.002$	$0.976 \pm 0.001$	$0.976 \pm 0.001$	$0.976 \pm 0.001$	$0.975 \pm 0.001$			$0.974 \pm 0.001$	
$datasets_a ll/glass - 0 - 1 - 6_v s_5.dat$		$0.965 \pm 0.015$	$0.965 \pm 0.015$	$0.960 \pm 0.011$	$0.960 \pm 0.011$	$0.960 \pm 0.011$				$0.966 \pm 0.013$	
$datasets_a ll/ecoli - 0 - 1 - 3 - 7_v s_2 - 6.dat$		$0.978 \pm 0.006$	$0.978 \pm 0.006$	$0.978 \pm 0.007$	$0.978 \pm 0.007$	$0.978 \pm 0.007$	$0.974 \pm 0.005$	$0.975 \pm 0.003$		$0.979 \pm 0.008$	
$datasets_a ll/yeast - 0 - 2 - 5 - 6_v s_3 - 7 - 8 - 9.dat$		$0.919 \pm 0.010$	$0.920 \pm 0.011$	$0.922 \pm 0.008$	$0.922 \pm 0.008$	$0.921 \pm 0.009$	$0.906 \pm 0.005$	$0.905 \pm 0.004$		$0.927 \pm 0.007$	
datasets <sub>a</sub> ll/yeast5.dat		$0.979 \pm 0.004$	$0.979 \pm 0.004$	$0.976 \pm 0.004$	$0.976 \pm 0.004$	$0.976 \pm 0.004$	$0.971 \pm 0.001$	$0.971 \pm 0.001$		$0.981 \pm 0.004$	
$datasets_a ll/glass - 0 - 1 - 4 - 6_v s_2.dat$		$0.893 \pm 0.025$	$0.892 \pm 0.025$	$0.916 \pm 0.005$	$0.916 \pm 0.005$	$0.913 \pm 0.008$	$0.910 \pm 0.011$	$0.915 \pm 0.006$	$0.847 \pm 0.029$	$0.892 \pm 0.024$	
$datasets_a ll/yeast - 0 - 5 - 6 - 7 - 9_v s_4.dat$		0.908 ± 0.010	0.908 ± 0.011	0.909 ± 0.006	0.909 ± 0.006	0.909 ± 0.006	$0.902 \pm 0.004$	$0.901 \pm 0.006$		$0.911 \pm 0.010$	
datasets <sub>a</sub> ll/yeast3.dat		$0.937 \pm 0.008$	0.938 ± 0.005	$0.934 \pm 0.007$	0.934 ± 0.007	$0.936 \pm 0.007$	$0.891 \pm 0.001$ $0.982 \pm 0.001$	$0.891 \pm 0.001$ $0.982 \pm 0.001$	$0.932 \pm 0.007$	0.943 ± 0.006 0.997 ± 0.003	0.944 ± 0.007
$datasets_a ll/kr - vs - k - zero_v s_e ight.dat$ $datasets_a ll/ecoli - 0 - 6 - 7_v s_3 - 5.dat$		$0.993 \pm 0.005$ $0.937 \pm 0.017$	$0.993 \pm 0.005$ $0.937 \pm 0.017$	$0.994 \pm 0.003$ $0.921 \pm 0.013$	$0.995 \pm 0.003$ $0.921 \pm 0.013$	$0.995 \pm 0.003$ $0.922 \pm 0.013$	$0.982 \pm 0.001$ $0.905 \pm 0.012$			$0.951 \pm 0.003$ $0.951 \pm 0.016$	
$datasets_a u/econ - 0 - 6 - I_v s_3 - 5.aat$ $datasets_a u/econ - votkit - imap_v s_back.dat$		$1.000 \pm 0.001$	$1.000 \pm 0.001$	$0.921 \pm 0.013$ $0.999 \pm 0.001$	$0.921 \pm 0.013$ $0.999 \pm 0.001$	$0.922 \pm 0.013$ $0.999 \pm 0.001$		$0.998 \pm 0.002$			$0.999 \pm 0.010$ $0.999 \pm 0.001$
$datasets_a ll/winequality - red - 8_v s_6.dat$		$0.969 \pm 0.007$	$0.970 \pm 0.006$	$0.971 \pm 0.004$	$0.971 \pm 0.004$	$0.972 \pm 0.004$		$0.972 \pm 0.002$		0.968 ± 0.006	$0.972 \pm 0.004$
$datasets_a tl/winequality = rea = S_v s_0.aat$ $datasets_a ll/flare = F.dat$		$0.952 \pm 0.004$	$0.953 \pm 0.004$	$0.950 \pm 0.005$	$0.951 \pm 0.004$ $0.951 \pm 0.006$	$0.952 \pm 0.004$ $0.952 \pm 0.004$		$0.959 \pm 0.002$	$0.939 \pm 0.010$	$0.947 \pm 0.006$	$0.946 \pm 0.008$
datasets <sub>a</sub> ll/glass4.dat		$0.945 \pm 0.024$	$0.950 \pm 0.004$	$0.941 \pm 0.017$	$0.941 \pm 0.000$	$0.941 \pm 0.017$		$0.947 \pm 0.002$		$0.953 \pm 0.019$	
datasets <sub>a</sub> ll/haberman.dat		$0.676 \pm 0.024$	$0.677 \pm 0.029$	$0.697 \pm 0.031$	$0.700 \pm 0.023$	$0.690 \pm 0.034$	$0.733 \pm 0.010$			$0.679 \pm 0.035$	$0.686 \pm 0.031$
$datasets_a ll/poker - 8 - 9_v s_6.dat$		$0.984 \pm 0.002$	$0.985 \pm 0.002$	$0.984 \pm 0.002$	$0.984 \pm 0.002$	$0.984 \pm 0.002$		$0.983 \pm 0.001$		$0.985 \pm 0.002$	$0.984 \pm 0.001$
$datasets_a ll/yeast - 1 - 4 - 5 - 8_v s_7.dat$		$0.953 \pm 0.004$	$0.952 \pm 0.002$	$0.954 \pm 0.002$	$0.954 \pm 0.002$	$0.954 \pm 0.002$	$0.956 \pm 0.001$			$0.952 \pm 0.002$	$0.955 \pm 0.002$
$datasets_a ll/ecoli - 0 - 2 - 6 - 7_v s_3 - 5.dat$		$0.927 \pm 0.026$	$0.930 \pm 0.021$	$0.925 \pm 0.024$	$0.925 \pm 0.024$	$0.925 \pm 0.024$	$0.904 \pm 0.023$	$0.909 \pm 0.013$		$0.946 \pm 0.015$	
$datasets_a ll/glass - 0 - 1 - 6_v s_2.dat$		$0.905 \pm 0.011$	$0.906 \pm 0.010$	$0.914 \pm 0.009$	$0.914 \pm 0.009$	$0.911 \pm 0.008$	$0.897 \pm 0.014$	$0.911 \pm 0.011$		$0.896 \pm 0.019$	$0.909 \pm 0.005$
datasets <sub>a</sub> ll/yeast4.dat		$0.960 \pm 0.005$	$0.962 \pm 0.003$	$0.966 \pm 0.003$	$0.966 \pm 0.003$	$0.966 \pm 0.002$	$0.966 \pm 0.001$	$0.966 \pm 0.001$	$0.947 \pm 0.006$	$0.964 \pm 0.003$	$0.965 \pm 0.002$
$datasets_a ll/page-blocks 0.dat$	$0.970 \pm 0.003$	$0.970 \pm 0.003$	$0.970 \pm 0.002$	$0.969 \pm 0.003$	$0.969 \pm 0.003$	$0.968 \pm 0.004$	$0.963 \pm 0.004$	$0.963 \pm 0.004$	$0.965 \pm 0.003$	$0.971 \pm 0.002$	$0.971 \pm 0.001$
$datasets_a ll/ecoli - 0 - 1 - 4 - 7_v s_2 - 3 - 5 - 6.dat$		$0.943 \pm 0.010$	$0.946 \pm 0.011$	$0.940 \pm 0.011$	$0.940 \pm 0.011$	$0.939 \pm 0.010$	$0.921 \pm 0.006$	$0.926 \pm 0.012$	$0.936 \pm 0.020$	$0.954 \pm 0.010$	$0.952 \pm 0.007$
$datasets_a ll/poker - 8_v s_6.dat$	$0.989 \pm 0.002$	$0.989\pm0.002$	$0.989\pm0.002$	$0.988 \pm 0.001$	$0.988 \pm 0.001$	$0.988 \pm 0.001$	$0.988\pm0.001$	$0.988 \pm 0.001$	$0.980 \pm 0.008$	$0.989 \pm 0.001$	$0.988 \pm 0.001$
$datasets_all/ecoli1.dat$	$\textbf{0.000}\pm\textbf{0.000}$	$0.000 \pm 0.000$			$\textbf{0.000}\pm\textbf{0.000}$						
$datasets_a ll/glass 0.dat$	$0.837 \pm 0.027$	$0.842\pm0.020$	$0.837 \pm 0.034$	$0.839 \pm 0.025$	$0.839 \pm 0.025$	$0.836 \pm 0.026$	$0.829 \pm 0.028$	$0.793 \pm 0.044$		$0.826 \pm 0.026$	$0.807 \pm 0.045$
$datasets_a ll/winequality - red - 4.dat$		$0.964 \pm 0.002$	$0.962 \pm 0.004$	$0.966 \pm 0.002$	$0.966 \pm 0.002$	$0.965 \pm 0.003$	$0.967 \pm 0.001$				$0.965 \pm 0.001$
$datasets_a ll/pima.dat$		$0.721 \pm 0.024$	$0.710 \pm 0.017$	$0.722 \pm 0.021$	$0.729 \pm 0.011$	$0.715 \pm 0.014$		$0.683 \pm 0.026$		$0.736 \pm 0.014$	
$datasets_a ll/abalone - 19_v s_1 0 - 11 - 12 - 13.dat$		$0.978 \pm 0.004$	$0.979 \pm 0.002$	$0.979 \pm 0.002$	$0.979 \pm 0.002$	$0.979 \pm 0.002$		$\textbf{0.980}\pm\textbf{0.000}$			
$datasets_a ll/ecoli 2.dat$		$0.000 \pm 0.000$	$\textbf{0.000}\pm\textbf{0.000}$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$		$0.000 \pm 0.000$			
$datasets_a ll/abalone9 - 18.dat$		$0.945 \pm 0.006$	$0.944 \pm 0.006$	$0.944 \pm 0.005$	$0.944 \pm 0.005$	$0.944 \pm 0.003$	$0.940 \pm 0.003$	$0.943 \pm 0.003$		$0.943 \pm 0.007$	
$datasets_a ll/yeast - 1 - 2 - 8 - 9_v s_7.dat$		$0.964 \pm 0.006$	$0.966 \pm 0.005$	$0.967 \pm 0.003$	$0.967 \pm 0.003$	$0.967 \pm 0.003$				$0.965 \pm 0.004$	
$datasets_all/winequality - white - 3_v s_7.dat$		$0.978 \pm 0.005$	$0.979 \pm 0.004$	$0.979 \pm 0.003$	$0.979 \pm 0.003$	$0.979 \pm 0.003$	$0.978 \pm 0.001$	$0.979 \pm 0.001$		$0.981 \pm 0.003$	
$datasets_a ll/yeast - 2_v s_4.dat$		$0.947 \pm 0.010$	$0.945 \pm 0.009$	$0.949 \pm 0.010$	$0.949 \pm 0.010$	$0.949 \pm 0.010$	$0.920 \pm 0.009$			$0.950 \pm 0.005$	
$datasets_all/winequality - red - 3_v s_5.dat$		$0.982 \pm 0.004$	$0.982 \pm 0.004$	$0.985 \pm 0.003$	$0.985 \pm 0.003$	$0.985 \pm 0.003$		$0.986 \pm 0.000$			
$datasets_a ll/glass2.dat$ $datasets_a ll/yeast - 2_v s_8.dat$		$0.914 \pm 0.010$ $0.971 \pm 0.008$	$0.912 \pm 0.010$ $0.971 \pm 0.008$	$0.922 \pm 0.007$ $0.961 \pm 0.007$	$0.922 \pm 0.007$ $0.961 \pm 0.007$	$0.922 \pm 0.007$ $0.961 \pm 0.007$	$0.912 \pm 0.017$	$0.918 \pm 0.010$ $0.959 \pm 0.001$	$0.876 \pm 0.030$ $0.953 \pm 0.011$	$0.908 \pm 0.022$ $0.970 \pm 0.007$	$0.921 \pm 0.012$ $0.967 \pm 0.007$
$aatasets_a ll/yeast - 2_v s_s.aat$ $datasets_a ll/qlass1.dat$		$0.971 \pm 0.008$ $0.791 \pm 0.037$	$0.971 \pm 0.008$ $0.784 \pm 0.040$	$0.961 \pm 0.007$ $0.780 \pm 0.021$	$0.780 \pm 0.007$	$0.961 \pm 0.007$ $0.772 \pm 0.026$	$0.939 \pm 0.001$ $0.783 \pm 0.039$	$0.769 \pm 0.001$ $0.769 \pm 0.025$	$0.933 \pm 0.011$ $0.731 \pm 0.026$	$0.784 \pm 0.007$	
$datasets_a ll/gass1.dat$ $datasets_a ll/zoo - 3.dat$		$0.791 \pm 0.037$ $0.955 \pm 0.015$	$0.784 \pm 0.040$ $0.955 \pm 0.015$	$0.780 \pm 0.021$ $0.953 \pm 0.018$	$0.780 \pm 0.021$ $0.953 \pm 0.018$	$0.772 \pm 0.026$ $0.953 \pm 0.018$	$0.783 \pm 0.039$ $0.951 \pm 0.009$	$0.769 \pm 0.023$ $0.951 \pm 0.009$	$0.731 \pm 0.026$ $0.925 \pm 0.029$		0.960 ± 0.015
$datasets_a ll/glass - 0 - 1 - 5_v s_2.dat$ $datasets_a ll/glass - 0 - 1 - 5_v s_2.dat$		$0.933 \pm 0.013$ $0.883 \pm 0.024$	$0.988 \pm 0.015$ $0.888 \pm 0.025$	$0.955 \pm 0.018$ $0.895 \pm 0.013$	$0.895 \pm 0.018$ $0.895 \pm 0.013$	$0.895 \pm 0.018$ $0.895 \pm 0.013$		$0.900 \pm 0.009$		$0.899 \pm 0.018$	
$datasets_a ll/abalone - 20_v s_8 - 9 - 10.dat$		$0.985 \pm 0.0024$	$0.986 \pm 0.023$	$0.986 \pm 0.001$	$0.986 \pm 0.001$	$0.986 \pm 0.001$				$0.986 \pm 0.002$	
$datasets_a ll/kddcup - buffer_overflow_vs_back.dat$		1.000 ± 0.001	1.000 ± 0.001	$0.999 \pm 0.002$	$0.999 \pm 0.002$	$0.999 \pm 0.002$		$0.997 \pm 0.001$			
$datasets_a ll/winequality - white - 3 - 9_a s_b data$		$0.981 \pm 0.002$	$0.981 \pm 0.002$	$0.983 \pm 0.002$ $0.983 \pm 0.002$	$0.983 \pm 0.002$ $0.983 \pm 0.002$	$0.982 \pm 0.002$		$0.983 \pm 0.001$			
datasets <sub>a</sub> tt/winequatity = witte = 3 = 5 <sub>v</sub> s <sub>5</sub> .uat datasets <sub>a</sub> tl/vehicle3.dat		0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.002	0.000 ± 0.002	0.000 ± 0.000		$0.000 \pm 0.000$			
datasets <sub>a</sub> ll/vehicle1.dat		$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	0.000 ± 0.000		$0.000 \pm 0.000$			
$datasets_a ll/page - blocks - 1 - 3_v s_4.dat$		$0.988 \pm 0.010$	0.988 ± 0.010	$0.986 \pm 0.008$	$0.986 \pm 0.008$	$0.986 \pm 0.008$	$0.983 \pm 0.008$	0.983 ± 0.006		$0.989 \pm 0.004$	
$datasets_a ll/ecoli - 0 - 6 - 7_v s_5.dat$		$0.934 \pm 0.038$	$0.934 \pm 0.038$	$0.940 \pm 0.016$	$0.940 \pm 0.016$	$0.940 \pm 0.016$	$0.917 \pm 0.009$	$0.923 \pm 0.011$		$0.956 \pm 0.019$	
$datasets_a ll/poker - 8 - 9_v s_5.dat$		$0.988 \pm 0.001$	$0.988 \pm 0.000$			$0.987 \pm 0.001$					
$datasets_a ll/yeast - 0 - 3 - 5 - 9_v s_7 - 8.dat$		$0.903 \pm 0.012$	$0.905 \pm 0.008$	$0.903 \pm 0.005$	$0.903 \pm 0.005$	$0.904 \pm 0.005$		$0.902 \pm 0.002$			

Table 6. Specificity

					DE-Forest-AUC-b					RF	RF-b
datasets <sub>a</sub> ll/glass5.dat		$0.349 \pm 0.245$	$0.373 \pm 0.271$	$0.066 \pm 0.071$	$0.066 \pm 0.071$	$0.066 \pm 0.071$			$0.578 \pm 0.344$		
$datasets_all/winequality - white - 9_v s_4.dat$		$0.111 \pm 0.166$	$0.111 \pm 0.166$	$0.160 \pm 0.201$	$0.160 \pm 0.201$	$0.160 \pm 0.201$	$0.030 \pm 0.006$		$0.191\pm0.204$		
$datasets_a ll/winequality - red - 8_v s_6 - 7.dat$		$0.141 \pm 0.033$	$0.141 \pm 0.033$	$0.130 \pm 0.000$	$0.130 \pm 0.000$	$0.130 \pm 0.000$	$0.130 \pm 0.000$		$0.162 \pm 0.070$		$0.086 \pm 0.053$
$datasets_all/yeast1.dat$		$0.510 \pm 0.017$	$0.504 \pm 0.019$	$0.464 \pm 0.013$	$0.464 \pm 0.014$	$0.462 \pm 0.018$	$0.312 \pm 0.023$		$0.571 \pm 0.018$		
$datasets_all/yeast6.dat$		$0.269 \pm 0.078$	$0.225 \pm 0.083$	$0.191 \pm 0.073$	$0.191 \pm 0.073$	$0.196 \pm 0.071$			$0.481 \pm 0.106$		$0.257 \pm 0.070$
$datasets_a ll/cleveland - 0_v s_4.dat$ $datasets_a ll/ecoli - 0 - 1_v s_2 - 3 - 5.dat$		$0.246 \pm 0.114$ $0.563 \pm 0.142$	$0.246 \pm 0.128$ $0.593 \pm 0.127$	$0.319 \pm 0.207$ $0.556 \pm 0.143$	$0.319 \pm 0.207$ $0.556 \pm 0.143$	$0.304 \pm 0.219$ $0.556 \pm 0.143$	$0.119 \pm 0.066$		$0.387 \pm 0.124$ $0.681 \pm 0.123$		$0.295 \pm 0.187$
$aatasets_a ll/econi = 0 = 1_v s_2 = 3 = 5.aat$ $datasets_a ll/yeast = 1_v s_7.dat$		$0.363 \pm 0.142$ $0.183 \pm 0.085$	$0.393 \pm 0.127$ $0.245 \pm 0.106$	$0.556 \pm 0.143$ $0.190 \pm 0.062$	$0.336 \pm 0.143$ $0.190 \pm 0.062$	$0.336 \pm 0.143$ $0.146 \pm 0.068$			$0.681 \pm 0.123$ $0.405 \pm 0.104$		
$datasets_a ll/geast - 1_v s_7.aat$ $datasets_a ll/abalone - 21_v s_8.dat$		$0.183 \pm 0.083$ $0.372 \pm 0.143$	$0.243 \pm 0.106$ $0.372 \pm 0.143$	$0.190 \pm 0.062$ $0.233 \pm 0.168$	$0.190 \pm 0.062$ $0.233 \pm 0.168$	$0.146 \pm 0.068$ $0.233 \pm 0.168$	$0.084 \pm 0.040$ $0.177 \pm 0.132$	$0.078 \pm 0.023$ $0.122 \pm 0.109$			
datasets_ll/abalone19.dat		$0.014 \pm 0.019$	$0.014 \pm 0.019$	$0.233 \pm 0.108$ $0.008 \pm 0.000$	$0.253 \pm 0.103$ $0.008 \pm 0.000$	$0.203 \pm 0.103$ $0.008 \pm 0.000$	$0.008 \pm 0.000$		0.032 ± 0.030		
$datasets_a ll/poker - 9_v s_7.dat$		$0.250 \pm 0.228$	$0.250 \pm 0.228$	$0.033 \pm 0.000$	$0.057 \pm 0.073$	$0.005 \pm 0.000$ $0.057 \pm 0.073$			$0.347 \pm 0.030$		
datasets, ll/ecoli3.dat		$0.458 \pm 0.133$	$0.455 \pm 0.102$	$0.429 \pm 0.111$	$0.429 \pm 0.111$	$0.439 \pm 0.104$	$0.144 \pm 0.063$		$0.525 \pm 0.097$		
$datasets_a ll/abalone - 17_v s_7 - 8 - 9 - 10.dat$		$0.152 \pm 0.052$	$0.166 \pm 0.070$	$0.095 \pm 0.053$	$0.095 \pm 0.053$	$0.102 \pm 0.056$	$0.035 \pm 0.030$		$0.270 \pm 0.081$		
$datasets_a ll/glass - 0 - 1 - 6_v s_5.dat$		$0.519 \pm 0.251$	$0.519 \pm 0.251$	$0.258 \pm 0.149$	$0.258 \pm 0.149$	$0.258 \pm 0.149$			$0.719 \pm 0.217$		
$datasets_a ll/ecoli - 0 - 1 - 3 - 7_v s_2 - 6.dat$	$0.180 \pm 0.212$	$0.180 \pm 0.212$	$0.180 \pm 0.212$	$0.147 \pm 0.209$	$0.147 \pm 0.209$	$0.147 \pm 0.209$	$0.057 \pm 0.097$	$0.025 \pm 0.003$	$0.536 \pm 0.315$	$0.277 \pm 0.231$	$0.025 \pm 0.003$
$datasets_a ll/yeast - 0 - 2 - 5 - 6_v s_3 - 7 - 8 - 9.dat$	$0.428 \pm 0.069$	$0.428 \pm 0.070$	$0.439 \pm 0.070$	$0.371 \pm 0.087$	$0.371 \pm 0.087$	$0.396 \pm 0.070$	$0.166 \pm 0.068$	$0.155 \pm 0.044$	$0.543 \pm 0.055$	$0.471 \pm 0.064$	$0.461 \pm 0.033$
$datasets_all/yeast5.dat$	$0.475 \pm 0.114$	$0.484 \pm 0.081$	$0.488 \pm 0.082$	$0.329 \pm 0.111$	$0.329 \pm 0.111$	$0.329 \pm 0.111$			$0.620\pm0.150$		
$datasets_a ll/glass - 0 - 1 - 4 - 6_v s_2.dat$		$0.155 \pm 0.111$	$0.155 \pm 0.110$	$0.093 \pm 0.032$	$0.093 \pm 0.032$	$0.093 \pm 0.032$			$0.227\pm0.116$		
$datasets_a ll/yeast - 0 - 5 - 6 - 7 - 9_v s_4.dat$		$0.335 \pm 0.101$	$0.331 \pm 0.067$	$0.223 \pm 0.045$	$0.223 \pm 0.045$	$0.223 \pm 0.045$			$0.455\pm0.064$		$0.314 \pm 0.102$
$datasets_all/yeast3.dat$		$0.672 \pm 0.050$	$0.683 \pm 0.058$	$0.576 \pm 0.079$	$0.576 \pm 0.079$	$0.592 \pm 0.078$			$0.739 \pm 0.051$		
$datasets_a ll/kr - vs - k - zero_v s_e ight.dat$		$0.687 \pm 0.250$	$0.687 \pm 0.250$	$0.701 \pm 0.160$	$0.752 \pm 0.168$	$0.752 \pm 0.168$	$0.018 \pm 0.001$		$0.910 \pm 0.111$		
$datasets_a ll/ecoli - 0 - 6 - 7_v s_3 - 5.dat$		$0.597 \pm 0.143$	$0.597 \pm 0.143$	$0.320 \pm 0.110$	$0.320 \pm 0.110$	$0.320 \pm 0.110$			$0.710\pm0.117$		
$datasets_a ll/kddcup-rootkit-imap_v s_b ack.dat$	$0.982 \pm 0.054$	$0.982 \pm 0.054$	$0.982 \pm 0.054$	$0.874 \pm 0.092$	$0.874 \pm 0.092$	$0.874 \pm 0.092$			$1.000\pm0.000$		
$datasets_all/winequality-red-8_vs_6.dat$		$0.168 \pm 0.097$	$0.168 \pm 0.097$	$0.135 \pm 0.068$	$0.135 \pm 0.068$	$0.135 \pm 0.068$			$0.264 \pm 0.135$		
$datasets_a ll/flare - F.dat$		$0.107 \pm 0.053$	$0.098 \pm 0.048$	$0.130 \pm 0.070$	$0.103 \pm 0.054$	$0.112 \pm 0.087$			$0.201\pm0.065$		
datasets <sub>a</sub> ll/glass4.dat		$0.464 \pm 0.220$	$0.465 \pm 0.220$	$0.261 \pm 0.139$	$0.261 \pm 0.139$	$0.261 \pm 0.139$	$0.311 \pm 0.160$		$0.656 \pm 0.138$		$0.380 \pm 0.112$
$datasets_a ll/haberman.dat$ $datasets_a ll/poker - 8 - 9_v s_6.dat$		$0.433 \pm 0.066$ $0.080 \pm 0.092$	$0.429 \pm 0.066$ $0.096 \pm 0.094$	$0.394 \pm 0.061$ $0.074 \pm 0.063$	$0.401 \pm 0.062$ $0.074 \pm 0.063$	$0.386 \pm 0.050$ $0.074 \pm 0.063$	$0.310 \pm 0.057$		$0.471 \pm 0.063$ $0.175 \pm 0.129$		$0.388 \pm 0.063$ $0.048 \pm 0.039$
$aatasets_a ll/poker - 8 - 9_v s_6.aat$ $datasets_a ll/yeast - 1 - 4 - 5 - 8_v s_7.dat$		$0.080 \pm 0.092$ $0.043 \pm 0.000$	$0.096 \pm 0.094$ $0.049 \pm 0.019$	$0.074 \pm 0.063$ $0.056 \pm 0.025$	$0.074 \pm 0.063$ $0.056 \pm 0.025$	$0.074 \pm 0.063$ $0.056 \pm 0.025$	$0.017 \pm 0.001$ $0.043 \pm 0.000$		$0.175 \pm 0.129$ $0.124 \pm 0.041$		$0.048 \pm 0.039$ $0.062 \pm 0.029$
$datasets_a u/yeast - 1 - 4 - 5 - 8_v s_7.aat$ $datasets_a u/yeast - 1 - 4 - 5 - 8_v s_7.aat$ $datasets_a u/yeast - 1 - 4 - 5 - 8_v s_7.aat$	$0.043 \pm 0.000$ $0.498 \pm 0.247$	$0.043 \pm 0.000$ $0.474 \pm 0.259$	$0.049 \pm 0.019$ $0.490 \pm 0.245$	$0.400 \pm 0.190$	$0.036 \pm 0.023$ $0.400 \pm 0.190$	$0.036 \pm 0.023$ $0.400 \pm 0.190$			$0.124 \pm 0.041$ $0.660 \pm 0.137$		
$datasets_a ll/glass - 0 - 1 - 6_v s_2.dat$	$0.186 \pm 0.077$	$0.155 \pm 0.072$	$0.155 \pm 0.072$	$0.121 \pm 0.050$	$0.121 \pm 0.050$	$0.110 \pm 0.043$			$0.276 \pm 0.086$		
datasets <sub>a</sub> ll/yeast4.dat		$0.162 \pm 0.082$	$0.160 \pm 0.012$ $0.162 \pm 0.082$	$0.124 \pm 0.050$	$0.121 \pm 0.053$ $0.128 \pm 0.053$	$0.114 \pm 0.046$			$0.290 \pm 0.092$		
$datasets_a ll/page - blocks0.dat$		$0.826 \pm 0.030$	$0.823 \pm 0.026$	$0.803 \pm 0.025$	$0.803 \pm 0.025$	$0.799 \pm 0.040$	$0.746 \pm 0.035$		$0.842 \pm 0.031$		
$datasets_a ll/ecoli - 0 - 1 - 4 - 7_v s_2 - 3 - 5 - 6.dat$		$0.501 \pm 0.122$	$0.544 \pm 0.108$	$0.425 \pm 0.156$	$0.425 \pm 0.156$	$0.400 \pm 0.140$	$0.194 \pm 0.048$		$0.725 \pm 0.096$		
$datasets_a ll/poker - 8_v s_6.dat$		$0.061 \pm 0.113$	$0.061 \pm 0.113$	$0.012 \pm 0.001$	$0.012 \pm 0.001$	$0.012 \pm 0.001$			$0.098 \pm 0.221$		
datasets <sub>a</sub> ll/ecoli1.dat			$0.000\pm0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$					
$datasets_all/glass0.dat$	$0.757\pm0.061$	$0.751 \pm 0.033$	$0.757 \pm 0.066$	$0.746 \pm 0.058$	$0.746 \pm 0.058$	$0.734 \pm 0.059$	$0.742 \pm 0.041$	$0.669 \pm 0.072$	$0.730 \pm 0.058$	$0.742 \pm 0.064$	$0.742 \pm 0.092$
$datasets_all/winequality - red - 4.dat$		$0.040 \pm 0.015$	$0.040 \pm 0.015$	$0.051 \pm 0.025$	$0.051 \pm 0.025$	$0.040 \pm 0.015$			$0.130\pm0.076$		
$datasets_all/pima.dat$		$0.613 \pm 0.037$	$0.600 \pm 0.030$	$0.600 \pm 0.041$	$0.616 \pm 0.019$	$0.598 \pm 0.029$	$0.492 \pm 0.035$	$0.494 \pm 0.039$			
$datasets_a ll/abalone - 19_v s_1 0 - 11 - 12 - 13.dat$		$0.032 \pm 0.025$	$0.032 \pm 0.025$	$0.020 \pm 0.000$	$0.020 \pm 0.000$	$0.020 \pm 0.000$			$0.068 \pm 0.060$		
$datasets_a ll/ecoli 2.dat$		$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$				$0.000 \pm 0.000$		
$datasets_a ll/abalone9 - 18.dat$		$0.286 \pm 0.091$	$0.263 \pm 0.099$	$0.143 \pm 0.042$	$0.143 \pm 0.042$	$0.125 \pm 0.036$	$0.062 \pm 0.013$		$0.342\pm0.099$		$0.156 \pm 0.056$
$datasets_a ll/yeast - 1 - 2 - 8 - 9_v s_7.dat$		$0.128 \pm 0.078$	$0.103 \pm 0.054$	$0.064 \pm 0.052$	$0.070 \pm 0.052$	$0.070 \pm 0.052$			$0.256 \pm 0.101$		
$datasets_all/winequality - white - 3_v s_7.dat$		$0.208 \pm 0.102$	$0.198 \pm 0.073$	$0.140 \pm 0.096$	$0.140 \pm 0.096$	$0.140 \pm 0.096$			$0.296 \pm 0.185$		
$datasets_a ll/yeast - 2_v s_4.dat$		$0.611 \pm 0.090$ $0.014 \pm 0.000$	$0.590 \pm 0.087$ $0.014 \pm 0.000$	$0.631 \pm 0.091$ $0.014 \pm 0.000$	$0.631 \pm 0.091$ $0.014 \pm 0.000$	$0.631 \pm 0.091$ $0.014 \pm 0.000$	$0.275 \pm 0.085$ $0.014 \pm 0.000$		$0.715 \pm 0.055$ $0.113 \pm 0.132$		$0.681 \pm 0.060$ $0.014 \pm 0.000$
$datasets_a ll/winequality - red - 3_v s_5.dat$ $datasets_a ll/qlass 2.dat$		$0.014 \pm 0.000$ $0.167 \pm 0.108$	$0.014 \pm 0.000$ $0.155 \pm 0.111$	$0.014 \pm 0.000$ $0.114 \pm 0.072$	$0.014 \pm 0.000$ $0.114 \pm 0.072$	$0.014 \pm 0.000$ $0.114 \pm 0.072$			$0.113 \pm 0.132$ $0.320 \pm 0.161$		
$datasets_a tl/gtass2.aat$ $datasets_a tl/yeast - 2_v s_s.dat$		$0.167 \pm 0.108$ $0.406 \pm 0.200$	$0.135 \pm 0.111$ $0.406 \pm 0.200$	$0.114 \pm 0.072$ $0.137 \pm 0.182$	$0.114 \pm 0.072$ $0.137 \pm 0.182$	$0.114 \pm 0.072$ $0.137 \pm 0.182$	$0.154 \pm 0.096$ $0.051 \pm 0.029$		$0.520 \pm 0.161$ $0.510 \pm 0.174$		
datasets_ll/glass1.dat		$0.706 \pm 0.049$	$0.694 \pm 0.046$	$0.666 \pm 0.034$	$0.666 \pm 0.034$	$0.659 \pm 0.038$			$0.693 \pm 0.043$		
$datasets_a ll/zoo - 3.dat$		$0.193 \pm 0.214$	$0.193 \pm 0.214$	$0.145 \pm 0.188$	$0.145 \pm 0.188$	$0.145 \pm 0.188$	$0.049 \pm 0.009$		$0.254 \pm 0.211$		
$datasets_a ll/qlass - 0 - 1 - 5_v s_2.dat$		$0.187 \pm 0.131$	$0.198 \pm 0.127$	$0.098 \pm 0.006$	$0.098 \pm 0.006$	$0.098 \pm 0.006$	$0.150 \pm 0.070$		$0.302 \pm 0.217$		
$datasets_a ll/abalone - 20_v s_8 - 9 - 10.dat$		$0.082 \pm 0.063$	$0.067 \pm 0.059$	$0.021 \pm 0.023$	$0.021 \pm 0.023$	$0.033 \pm 0.000$ $0.021 \pm 0.023$			$0.302 \pm 0.117$ $0.203 \pm 0.141$		
$datasets_a ll/kddcup - buffer_overflow_vs_back.dat$		$0.987 \pm 0.039$	$0.987 \pm 0.039$	$0.895 \pm 0.156$	$0.895 \pm 0.156$	$0.895 \pm 0.156$			$1.000 \pm 0.000$		
$datasets_all/winequality - white - 3 - 9_v s_5.dat$		$0.041 \pm 0.052$	$0.041 \pm 0.052$	$0.025 \pm 0.024$	$0.025 \pm 0.024$	$0.017 \pm 0.001$			$0.174 \pm 0.103$		
datasets <sub>a</sub> ll/vehicle3.dat			$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$				$0.000 \pm 0.000$		
datasets <sub>a</sub> ll/vehicle1.dat		$0.000 \pm 0.000$	$0.000\pm0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.000$	$0.000 \pm 0.00$					
$datasets_all/page - blocks - 1 - 3_v s_4.dat$		$0.879 \pm 0.099$	$0.879 \pm 0.099$	$0.832 \pm 0.086$	$0.832 \pm 0.086$	$0.832 \pm 0.086$	$0.798 \pm 0.074$	$0.771\pm0.109$	$0.892\pm0.128$	$0.879\pm0.078$	$0.825 \pm 0.125$
$datasets_a ll/ecoli - 0 - 6 - 7_v s_5.dat$	$0.517 \pm 0.287$	$0.498 \pm 0.308$	$0.498 \pm 0.308$	$0.445 \pm 0.154$	$0.445 \pm 0.154$	$0.445 \pm 0.154$			$0.716\pm0.125$		
$datasets_a ll/poker - 8 - 9_v s_5.dat$		$0.020 \pm 0.025$	$0.020 \pm 0.025$	$0.020 \pm 0.025$	$0.012 \pm 0.000$	$0.012 \pm 0.000$			$0.197\pm0.143$		$0.012 \pm 0.000$
$datasets_a ll/yeast - 0 - 3 - 5 - 9_v s_7 - 8.dat$	$0.249 \pm 0.045$	$0.252 \pm 0.060$	$0.249 \pm 0.055$	$0.185 \pm 0.060$	$0.185 \pm 0.060$	$0.188 \pm 0.049$	$0.109 \pm 0.023$	$0.110 \pm 0.023$	$0.382\pm0.087$	$0.248 \pm 0.031$	$0.249 \pm 0.066$