

DE-Forest

No Author Given

No Institute Given

1 Results

Table 1. BAC

[illegible]

Table 2. F1score

Dataset name	DE-Forest-gm	DE-Forest-AUC	DE-Forest-bac	DE-Forest-gm-b	DE-Forest-AUC-b	DE-Forest-bac-b	RandomFS	RandomFS-b	DT	RF	RF-b
<i>datasets_II/glass5.dat</i>	0.959 ± 0.022	0.954 ± 0.019	0.956 ± 0.019	0.959 ± 0.019	0.959 ± 0.019	0.959 ± 0.019	0.951 ± 0.016	0.947 ± 0.017	0.956 ± 0.022	0.965 ± 0.014	0.956 ± 0.012
<i>datasets_II/winequality - white - 9_s4.dat</i>	0.958 ± 0.014	0.958 ± 0.014	0.958 ± 0.014	0.962 ± 0.015	0.962 ± 0.015	0.962 ± 0.015	0.953 ± 0.008	0.956 ± 0.009	0.951 ± 0.016	0.958 ± 0.014	0.958 ± 0.009
<i>datasets_II/winequality - red - 8_s6 - 7.dat</i>	0.973 ± 0.002	0.972 ± 0.003	0.972 ± 0.003	0.974 ± 0.000	0.974 ± 0.000	0.974 ± 0.000	0.974 ± 0.000	0.973 ± 0.002	0.959 ± 0.005	0.972 ± 0.002	0.971 ± 0.003
<i>datasets_II/yeast1.dat</i>	0.716 ± 0.017	0.718 ± 0.006	0.712 ± 0.012	0.696 ± 0.008	0.697 ± 0.009	0.697 ± 0.011	0.610 ± 0.019	0.617 ± 0.019	0.698 ± 0.010	0.742 ± 0.009	0.734 ± 0.013
<i>datasets_II/yeast6.dat</i>	0.972 ± 0.004	0.973 ± 0.003	0.972 ± 0.003	0.972 ± 0.003	0.972 ± 0.003	0.972 ± 0.003	0.965 ± 0.002	0.966 ± 0.003	0.970 ± 0.005	0.977 ± 0.003	0.975 ± 0.003
<i>datasets_II/cleveland - 0_s4.dat</i>	0.911 ± 0.026	0.913 ± 0.016	0.913 ± 0.019	0.923 ± 0.028	0.923 ± 0.028	0.923 ± 0.028	0.920 ± 0.029	0.893 ± 0.017	0.898 ± 0.017	0.905 ± 0.021	0.922 ± 0.022
<i>datasets_II/ecoli - 0 - 1_s2 - 3 - 5.dat</i>	0.933 ± 0.021	0.932 ± 0.022	0.937 ± 0.022	0.935 ± 0.016	0.935 ± 0.016	0.935 ± 0.016	0.908 ± 0.026	0.897 ± 0.022	0.935 ± 0.011	0.949 ± 0.008	0.944 ± 0.014
<i>datasets_II/yeast - 1_s7.dat</i>	0.914 ± 0.010	0.915 ± 0.010	0.920 ± 0.012	0.918 ± 0.009	0.918 ± 0.009	0.913 ± 0.010	0.906 ± 0.007	0.903 ± 0.006	0.910 ± 0.007	0.919 ± 0.008	0.916 ± 0.010
<i>datasets_II/abalone - 21_s4.dat</i>	0.974 ± 0.004	0.974 ± 0.004	0.974 ± 0.004	0.972 ± 0.006	0.972 ± 0.006	0.972 ± 0.006	0.971 ± 0.006	0.968 ± 0.005	0.970 ± 0.005	0.977 ± 0.007	0.977 ± 0.006
<i>datasets_II/abalone19.dat</i>	0.988 ± 0.001	0.988 ± 0.001	0.988 ± 0.001	0.988 ± 0.000	0.988 ± 0.000	0.988 ± 0.000	0.988 ± 0.000	0.989 ± 0.000	0.984 ± 0.002	0.988 ± 0.000	0.988 ± 0.000
<i>datasets_II/poker - 9_s7.dat</i>	0.963 ± 0.017	0.962 ± 0.017	0.962 ± 0.017	0.951 ± 0.000	0.953 ± 0.005	0.953 ± 0.005	0.958 ± 0.009	0.952 ± 0.003	0.960 ± 0.014	0.969 ± 0.013	0.953 ± 0.005
<i>datasets_II/ecoli3.dat</i>	0.906 ± 0.013	0.900 ± 0.018	0.902 ± 0.011	0.904 ± 0.019	0.904 ± 0.019	0.907 ± 0.018	0.853 ± 0.016	0.860 ± 0.016	0.902 ± 0.018	0.906 ± 0.019	0.904 ± 0.018
<i>datasets_II/abalone - 17_s7 - 8 - 9 - 10.dat</i>	0.967 ± 0.003	0.967 ± 0.003	0.967 ± 0.002	0.966 ± 0.003	0.966 ± 0.003	0.966 ± 0.003	0.965 ± 0.002	0.963 ± 0.001	0.963 ± 0.001	0.962 ± 0.003	0.967 ± 0.002
<i>datasets_II/glass - 0 - 1 - 6_s3.dat</i>	0.957 ± 0.015	0.961 ± 0.019	0.961 ± 0.019	0.948 ± 0.016	0.948 ± 0.016	0.948 ± 0.016	0.954 ± 0.024	0.937 ± 0.020	0.965 ± 0.023	0.961 ± 0.017	0.951 ± 0.019
<i>datasets_II/ecoli - 0 - 1 - 3 - 7_s2 - 6.dat</i>	0.969 ± 0.011	0.969 ± 0.011	0.969 ± 0.011	0.968 ± 0.011	0.968 ± 0.011	0.968 ± 0.011	0.963 ± 0.005	0.963 ± 0.005	0.969 ± 0.009	0.973 ± 0.012	0.963 ± 0.005
<i>datasets_II/yeast - 0 - 5 - 6 - 7 - 9_s4 - 8.dat</i>	0.908 ± 0.013	0.908 ± 0.012	0.910 ± 0.013	0.905 ± 0.014	0.905 ± 0.014	0.907 ± 0.012	0.869 ± 0.013	0.867 ± 0.009	0.897 ± 0.009	0.917 ± 0.010	0.918 ± 0.006
<i>datasets_II/yeast - 0 - 2 - 5 - 6_s3 - 7 - 8 - 9.dat</i>	0.908 ± 0.013	0.908 ± 0.012	0.910 ± 0.013	0.905 ± 0.014	0.905 ± 0.014	0.907 ± 0.012	0.869 ± 0.013	0.867 ± 0.009	0.897 ± 0.009	0.917 ± 0.010	0.918 ± 0.006
<i>datasets_II/yeast5.dat</i>	0.976 ± 0.005	0.977 ± 0.004	0.977 ± 0.005	0.971 ± 0.005	0.971 ± 0.005	0.971 ± 0.005	0.957 ± 0.002	0.957 ± 0.002	0.976 ± 0.006	0.979 ± 0.005	0.974 ± 0.002
<i>datasets_II/glass - 0 - 1 - 4 - 6_s2.dat</i>	0.873 ± 0.017	0.872 ± 0.016	0.871 ± 0.014	0.879 ± 0.007	0.879 ± 0.007	0.879 ± 0.007	0.877 ± 0.008	0.876 ± 0.007	0.852 ± 0.022	0.872 ± 0.017	0.878 ± 0.013
<i>datasets_II/yeast - 0 - 5 - 6 - 7 - 9_s4.dat</i>	0.893 ± 0.014	0.892 ± 0.013	0.893 ± 0.010	0.882 ± 0.009	0.882 ± 0.009	0.882 ± 0.009	0.857 ± 0.005	0.858 ± 0.004	0.885 ± 0.022	0.894 ± 0.011	0.896 ± 0.015
<i>datasets_II/yeast - 0 - 5 - 6 - 7 - 9_s4 - 8.dat</i>	0.893 ± 0.014	0.892 ± 0.013	0.893 ± 0.010	0.882 ± 0.009	0.882 ± 0.009	0.882 ± 0.009	0.857 ± 0.005	0.858 ± 0.004	0.885 ± 0.022	0.894 ± 0.011	0.896 ± 0.015
<i>datasets_II/winequality - red - 8_s6.dat</i>	0.962 ± 0.004	0.962 ± 0.004	0.963 ± 0.003	0.963 ± 0.004	0.963 ± 0.004	0.963 ± 0.004	0.964 ± 0.003	0.960 ± 0.003	0.956 ± 0.009	0.962 ± 0.004	0.962 ± 0.004
<i>datasets_II/kr - vs - k - zero_s4tght.dat</i>	0.991 ± 0.006	0.992 ± 0.007	0.992 ± 0.007	0.993 ± 0.004	0.995 ± 0.004	0.995 ± 0.004	0.972 ± 0.001	0.972 ± 0.001	0.996 ± 0.003	0.997 ± 0.003	0.995 ± 0.003
<i>datasets_II/ecoli - 0 - 6 - 7_s3 - 5.dat</i>	0.932 ± 0.020	0.932 ± 0.020	0.932 ± 0.020	0.899 ± 0.021	0.899 ± 0.021	0.899 ± 0.021	0.900 ± 0.021	0.868 ± 0.017	0.937 ± 0.021	0.948 ± 0.017	0.955 ± 0.011
<i>datasets_II/kddcup - rootkit - impup_s4ack.dat</i>	1.000 ± 0.001	1.000 ± 0.001	1.000 ± 0.001	0.999 ± 0.001	0.999 ± 0.001	0.999 ± 0.001	0.999 ± 0.001	0.998 ± 0.002	1.000 ± 0.000	1.000 ± 0.000	0.999 ± 0.001
<i>datasets_II/winequality - red - 8_s6.dat</i>	0.962 ± 0.004	0.962 ± 0.004	0.963 ± 0.003	0.963 ± 0.004	0.963 ± 0.004	0.963 ± 0.004	0.964 ± 0.003	0.960 ± 0.003	0.956 ± 0.009	0.962 ± 0.004	0.962 ± 0.004
<i>datasets_II/flare - F.dat</i>	0.940 ± 0.003	0.940 ± 0.003	0.940 ± 0.003	0.940 ± 0.005	0.939 ± 0.003	0.940 ± 0.004	0.940 ± 0.002	0.940 ± 0.001	0.936 ± 0.006	0.941 ± 0.003	0.939 ± 0.006
<i>datasets_II/glass4.dat</i>	0.941 ± 0.019	0.941 ± 0.025	0.945 ± 0.024	0.929 ± 0.019	0.929 ± 0.019	0.929 ± 0.019	0.932 ± 0.020	0.935 ± 0.019	0.946 ± 0.024	0.948 ± 0.019	0.943 ± 0.016
<i>datasets_II/haberman.dat</i>	0.665 ± 0.027	0.664 ± 0.030	0.663 ± 0.030	0.666 ± 0.035	0.670 ± 0.030	0.661 ± 0.036	0.648 ± 0.033	0.641 ± 0.020	0.655 ± 0.027	0.664 ± 0.033	0.658 ± 0.033
<i>datasets_II/poker - 8 - 9_s6.dat</i>	0.978 ± 0.005	0.977 ± 0.003	0.978 ± 0.004	0.977 ± 0.003	0.977 ± 0.003	0.977 ± 0.003	0.975 ± 0.001	0.975 ± 0.001	0.970 ± 0.005	0.978 ± 0.004	0.975 ± 0.002
<i>datasets_II/yeast - 1 - 4 - 5 - 8_s7.dat</i>	0.934 ± 0.002	0.934 ± 0.002	0.933 ± 0.004	0.935 ± 0.002	0.935 ± 0.002	0.935 ± 0.002	0.935 ± 0.000	0.935 ± 0.000	0.917 ± 0.008	0.934 ± 0.004	0.936 ± 0.003
<i>datasets_II/ecoli - 0 - 2 - 6 - 7_s3 - 5.dat</i>	0.917 ± 0.038	0.912 ± 0.041	0.916 ± 0.036	0.908 ± 0.032	0.908 ± 0.032	0.908 ± 0.032	0.876 ± 0.034	0.877 ± 0.023	0.930 ± 0.014	0.941 ± 0.017	0.945 ± 0.012
<i>datasets_II/glass - 0 - 1 - 6_s2.dat</i>	0.841 ± 0.016	0.875 ± 0.017	0.876 ± 0.018	0.876 ± 0.015	0.876 ± 0.015	0.873 ± 0.013	0.867 ± 0.012	0.875 ± 0.015	0.854 ± 0.023	0.878 ± 0.021	0.873 ± 0.010
<i>datasets_II/yeast4.dat</i>	0.952 ± 0.005	0.952 ± 0.003	0.953 ± 0.005	0.954 ± 0.003	0.954 ± 0.003	0.954 ± 0.003	0.950 ± 0.002	0.949 ± 0.001	0.948 ± 0.004	0.956 ± 0.005	0.954 ± 0.003
<i>datasets_II/page - block0.dat</i>	0.970 ± 0.003	0.969 ± 0.003	0.969 ± 0.003	0.968 ± 0.003	0.968 ± 0.003	0.967 ± 0.004	0.961 ± 0.005	0.961 ± 0.005	0.965 ± 0.003	0.971 ± 0.002	0.971 ± 0.002
<i>datasets_II/ecoli - 0 - 1 - 4 - 7_s2 - 3 - 5 - 6.dat</i>	0.942 ± 0.018	0.935 ± 0.015	0.940 ± 0.014	0.928 ± 0.019	0.928 ± 0.019	0.925 ± 0.017	0.893 ± 0.011	0.900 ± 0.020	0.938 ± 0.018	0.949 ± 0.011	0.945 ± 0.010
<i>datasets_II/poker - 8 - 9_s6.dat</i>	0.983 ± 0.001	0.984 ± 0.003	0.984 ± 0.003	0.983 ± 0.001	0.983 ± 0.001	0.983 ± 0.001	0.983 ± 0.001	0.983 ± 0.001	0.979 ± 0.006	0.983 ± 0.002	0.983 ± 0.001
<i>datasets_II/ecoli1.dat</i>	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000
<i>datasets_II/glass0.dat</i>	0.833 ± 0.030	0.837 ± 0.020	0.833 ± 0.035	0.833 ± 0.028	0.833 ± 0.028	0.829 ± 0.029	0.825 ± 0.028	0.783 ± 0.047	0.783 ± 0.029	0.821 ± 0.005	0.804 ± 0.048
<i>datasets_II/winequality - red - 4.dat</i>	0.950 ± 0.003	0.949 ± 0.001	0.949 ± 0.002	0.951 ± 0.002	0.951 ± 0.002	0.950 ± 0.002	0.951 ± 0.001	0.950 ± 0.001	0.938 ± 0.007	0.949 ± 0.003	0.951 ± 0.002
<i>datasets_II/pima.dat</i>	0.703 ± 0.022	0.711 ± 0.027	0.700 ± 0.020	0.708 ± 0.026	0.718 ± 0.019	0.703 ± 0.017	0.640 ± 0.027	0.643 ± 0.031	0.683 ± 0.017	0.726 ± 0.014	0.721 ± 0.021
<i>datasets_II/abalone - 19_s4 - 0 - 11 - 12 - 13.dat</i>	0.970 ± 0.002	0.970 ± 0.002	0.971 ± 0.002	0.970 ± 0.001	0.970 ± 0.001	0.970 ± 0.001	0.970 ± 0.000	0.971 ± 0.000	0.961 ± 0.004	0.970 ± 0.001	0.970 ± 0.001
<i>datasets_II/ecoli2.dat</i>	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000
<i>datasets_II/abalone19 - 18.dat</i>	0.935 ± 0.010	0.934 ± 0.008	0.933 ± 0.009	0.921 ± 0.005	0.924 ± 0.005	0.923 ± 0.005	0.914 ± 0.002	0.917 ± 0.006	0.938 ± 0.009	0.930 ± 0.010	0.925 ± 0.009
<i>datasets_II/yeast - 1 - 2 - 8 - 9_s2.dat</i>	0.956 ± 0.005	0.955 ± 0.005	0.955 ± 0.004	0.954 ± 0.004	0.954 ± 0.004	0.954 ± 0.004	0.954 ± 0.002	0.953 ± 0.000	0.944 ± 0.012	0.955 ± 0.004	0.955 ± 0.004
<i>datasets_II/winequality - white - 3_s7.dat</i>	0.972 ± 0.006	0.973 ± 0.005	0.973 ± 0.004	0.972 ± 0.004	0.972 ± 0.004	0.972 ± 0.004	0.969 ± 0.002	0.969 ± 0.004	0.972 ± 0.009	0.975 ± 0.005	0.972 ± 0.004
<i>datasets_II/yeast - 2_s4.dat</i>	0.937 ± 0.011	0.942 ± 0.012	0.939 ± 0.011	0.945 ± 0.012	0.945 ± 0.012	0.945 ± 0.012	0.894 ± 0.017	0.899 ± 0.023	0.941 ± 0.011	0.947 ± 0.005	0.950 ± 0.009
<i>datasets_II/winequality - red - 3_s3.dat</i>	0.977 ± 0.002	0.977 ± 0.002	0.977 ± 0.002	0.978 ± 0.001	0.978 ± 0.001	0.978 ± 0.001	0.978 ± 0.000	0.978 ± 0.000	0.973 ± 0.003	0.977 ± 0.002	0.978 ± 0.000
<i>datasets_II/glass2.dat</i>	0.886 ± 0.024	0.889 ± 0.016	0.886 ± 0.015	0.888 ± 0.015	0.888 ± 0.015	0.888 ± 0.015	0.887 ± 0.016	0.884 ± 0.010	0.876 ± 0.024	0.892 ± 0.023	0.888 ± 0.020
<i>datasets_II/yeast - 2_s8.dat</i>	0.969 ± 0.010	0.964 ± 0.014	0.964 ± 0.014	0.945 ± 0.013	0.945 ± 0.013	0.945 ± 0.013	0.939 ± 0.003	0.939 ± 0.003	0.954 ± 0.010	0.964 ± 0.010	0.955 ± 0.013
<i>datasets_II/glass1.dat</i>	0.783 ± 0.052	0.784 ± 0.038	0.777 ± 0.041	0.767 ± 0.024	0.767 ± 0.024	0.759 ± 0.028	0.770 ± 0.046	0.752 ± 0.040	0.732 ± 0.026	0.779 ± 0.046	0.784 ± 0.052
<i>datasets_II/soo - 3.dat</i>	0.940 ± 0.025	0.936 ± 0.026	0.936 ± 0.026	0.933 ± 0.026	0.933 ± 0.026	0.933 ± 0.026	0.927 ± 0.014	0.927 ± 0.014	0.922 ± 0.021	0.940 ± 0.021	0.944 ± 0.025
<i>datasets_II/glass - 0 - 1 - 5_s3.dat</i>	0.871 ± 0.022	0.875 ± 0.021	0.862 ± 0.022	0.851 ± 0.011	0.851 ± 0.011	0.851 ± 0.011	0.850 ± 0.015	0.858 ± 0.014	0.851 ± 0.027	0.875 ± 0.021	0.858 ± 0.010
<i>datasets_II/abalone - 20_s4 - 9 - 10.dat</i>	0.981 ± 0.001	0.981 ± 0.002	0.980 ± 0.001	0.980 ± 0.001	0.980 ± 0.001	0.980 ± 0.001	0.980 ± 0.001	0.980 ± 0.000	0.978 ± 0.002	0.981 ± 0.003	0.981 ± 0.001
<i>datasets_II/kddcup - buffer_overflow_s4ack.dat</i>	1.000 ± 0.001	1.000 ± 0.001	1.000 ± 0.001	0.998 ± 0.002	0.998 ± 0.002	0.998 ± 0.002	0.998 ± 0.002	0.997 ± 0.001	0.998 ± 0.000		

Table 3. Gmean

	Dataset name: DE-Forecast				DE-Forest-based				DE-Forest-based				DE-Forest-AUC				RandomFS				DT	RF	RF-b						
	datasets\ts\glasshd - 0.066 ± 0.302				0.530 ± 0.239				0.454 ± 0.255				0.233 ± 0.096				0.233 ± 0.096				0.233 ± 0.096	0.325 ± 0.586	0.090 ± 0.284	0.026 ± 0.192	0.514 ± 0.187				
datasets\ts\inequality - white - 9-s, 8-10	0.265 ± 0.196				0.265 ± 0.196				0.265 ± 0.196				0.321 ± 0.231				0.321 ± 0.231				0.168 ± 0.017	0.169 ± 0.017	0.356 ± 0.238	0.280 ± 0.215	0.210 ± 0.128				
datasets\ts\inequality - red - 8-s, 7-sd	0.369 ± 0.038				0.369 ± 0.038				0.369 ± 0.038				0.357 ± 0.000				0.357 ± 0.000				0.357 ± 0.000	0.336 ± 0.064	0.386 ± 0.073	0.356 ± 0.000	0.271 ± 0.104				
datasets\ts\inequality - blue - 8-s, 7-sd	0.615 ± 0.011				0.608 ± 0.005				0.608 ± 0.005				0.473 ± 0.000				0.473 ± 0.000				0.473 ± 0.000	0.473 ± 0.000	0.473 ± 0.000	0.473 ± 0.000	0.473 ± 0.000				
datasets\ts\glasshd - 0.066 ± 0.302	0.489 ± 0.100				0.489 ± 0.100				0.489 ± 0.100				0.420 ± 0.103				0.420 ± 0.103				0.165 ± 0.039	0.199 ± 0.075	0.678 ± 0.077	0.589 ± 0.062	0.497 ± 0.070				
datasets\ts\inequality - Cleveland - 0-s, 8-sd	0.479 ± 0.166				0.504 ± 0.178				0.459 ± 0.142				0.520 ± 0.185				0.520 ± 0.185				0.499 ± 0.201	0.320 ± 0.086	0.342 ± 0.094	0.585 ± 0.096	0.526 ± 0.186	0.502 ± 0.166			
datasets\ts\cool - 0 - 1, 9-s, 3-sd	0.722 ± 0.094				0.722 ± 0.095				0.714 ± 0.085				0.718 ± 0.097				0.718 ± 0.097				0.563 ± 0.119	0.530 ± 0.109	0.705 ± 0.099	0.709 ± 0.106	0.753 ± 0.072				
datasets\ts\inequality - 0 - 1, 9-s, 3-sd	0.401 ± 0.130				0.401 ± 0.130				0.401 ± 0.130				0.441 ± 0.184				0.441 ± 0.184				0.381 ± 0.170	0.396 ± 0.160	0.575 ± 0.132	0.610 ± 0.122	0.640 ± 0.156				
datasets\ts\balance - 21-sd, 0-s	0.593 ± 0.110				0.593 ± 0.110				0.593 ± 0.110				0.593 ± 0.110				0.593 ± 0.110				0.593 ± 0.110	0.593 ± 0.110	0.593 ± 0.110	0.593 ± 0.110	0.593 ± 0.110				
datasets\ts\balance - 0-s, 8-sd	0.087 ± 0.000				0.105 ± 0.053				0.105 ± 0.053				0.087 ± 0.000				0.087 ± 0.000				0.087 ± 0.000	0.087 ± 0.000	0.157 ± 0.086	0.105 ± 0.053	0.087 ± 0.000				
datasets\ts\balance - 0-s, 8-sd	0.425 ± 0.255				0.425 ± 0.255				0.425 ± 0.255				0.178 ± 0.000				0.212 ± 0.102				0.212 ± 0.102				0.314 ± 0.166	0.321 ± 0.011	0.524 ± 0.248	0.515 ± 0.232	0.212 ± 0.102
datasets\ts\balance - 0-s, 8-sd	0.629 ± 0.096				0.629 ± 0.096				0.629 ± 0.096				0.629 ± 0.096				0.629 ± 0.096				0.629 ± 0.096				0.629 ± 0.096	0.629 ± 0.096	0.629 ± 0.096	0.629 ± 0.096	0.629 ± 0.096
datasets\ts\balance - 17-s, 8 - 10, 6-sd	0.331 ± 0.095				0.376 ± 0.082				0.394 ± 0.082				0.291 ± 0.092				0.291 ± 0.092				0.303 ± 0.088				0.175 ± 0.058	0.180 ± 0.038	0.503 ± 0.078	0.382 ± 0.049	0.337 ± 0.074
datasets\ts\balance - 0 - 1 - 6-sd	0.086 ± 0.122				0.086 ± 0.206				0.086 ± 0.206				0.474 ± 0.154				0.474 ± 0.154				0.474 ± 0.154				0.555 ± 0.263	0.343 ± 0.202	0.824 ± 0.135	0.667 ± 0.202	0.522 ± 0.235
datasets\ts\cool - 0 - 1 - 3 - 7-s, 8-sd	0.345 ± 0.240				0.345 ± 0.240				0.345 ± 0.240				0.302 ± 0.232				0.302 ± 0.232				0.302 ± 0.232				0.199 ± 0.127	0.155 ± 0.011	0.663 ± 0.280	0.454 ± 0.257	0.155 ± 0.011
datasets\ts\balance - 0 - 2 - 6-sd	0.071 ± 0.075				0.071 ± 0.075				0.071 ± 0.075				0.381 ± 0.125				0.381 ± 0.125				0.381 ± 0.125				0.381 ± 0.125	0.381 ± 0.125	0.381 ± 0.125	0.381 ± 0.125	0.381 ± 0.125
datasets\ts\balance - 0 - 1 - 6-sd	0.677 ± 0.081				0.686 ± 0.059				0.689 ± 0.060				0.559 ± 0.095				0.559 ± 0.095				0.559 ± 0.095				0.226 ± 0.060	0.216 ± 0.060	0.772 ± 0.098	0.716 ± 0.077	0.331 ± 0.041
datasets\ts\balance - 0 - 1 - 4 - 6-sd	0.302 ± 0.113				0.352 ± 0.117				0.352 ± 0.116				0.289 ± 0.043				0.289 ± 0.043				0.288 ± 0.044				0.302 ± 0.059	0.275 ± 0.007	0.427 ± 0.107	0.353 ± 0.070	0.302 ± 0.100
datasets\ts\cool - 0 - 5 - 6 - 7-s, 8-sd	0.531 ± 0.074				0.545 ± 0.085				0.546 ± 0.065				0.448 ± 0.046				0.448 ± 0.046				0.448 ± 0.046				0.300 ± 0.015	0.305 ± 0.019	0.633 ± 0.051	0.514 ± 0.058	0.500 ± 0.086
datasets\ts\balance - 0 - 1 - 4 - 6-sd	0.788 ± 0.164				0.793 ± 0.053				0.793 ± 0.053				0.860 ± 0.100				0.860 ± 0.100				0.860 ± 0.100				0.135 ± 0.002	0.135 ± 0.002	0.950 ± 0.061	0.957 ± 0.048	0.086 ± 0.066
datasets\ts\cool - 0 - 6 - 7-s, 8-sd	0.719 ± 0.084				0.742 ± 0.101				0.742 ± 0.101				0.535 ± 0.099				0.535 ± 0.099				0.535 ± 0.099				0.309 ± 0.109	0.403 ± 0.085	0.813 ± 0.074	0.802 ± 0.099	0.811 ± 0.045
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029
datasets\ts\balance - rootkit - impack-sd	0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029				0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029	0.990 ± 0.029

Table 5. Recall

Dataset name	De-Forest-gm	De-AUIC	De-Forest-bd	De-Forest-gm-bd	De-Forest-AUC-bd	De-Forest-bd-bd	RandomFS	RandomFS-b	DT	RF	RF-b
<i>datasets\all\glasshd</i>	0.965 ± 0.016	0.962 ± 0.014	0.963 ± 0.014	0.958 ± 0.006	0.958 ± 0.006	0.958 ± 0.006	0.963 ± 0.008	0.961 ± 0.010	0.956 ± 0.020	0.971 ± 0.010	0.965 ± 0.006
<i>datasets\all\inequality - white - 9-8-8</i>	0.968 ± 0.013	0.968 ± 0.013	0.974 ± 0.009	0.974 ± 0.009	0.974 ± 0.009	0.974 ± 0.009	0.963 ± 0.010	0.970 ± 0.006	0.952 ± 0.018	0.970 ± 0.008	0.971 ± 0.006
<i>datasets\all\inequality - red - 8-8-8 - Tddr</i>	0.978 ± 0.003	0.978 ± 0.003	0.983 ± 0.001	0.983 ± 0.001	0.981 ± 0.001	0.981 ± 0.001	0.981 ± 0.001	0.975 ± 0.003	0.975 ± 0.003	0.975 ± 0.003	0.975 ± 0.003
<i>datasets\all\inequality - red - 8-8-8 - Tddr</i>	0.973 ± 0.016	0.974 ± 0.006	0.973 ± 0.011	0.972 ± 0.008	0.973 ± 0.011	0.973 ± 0.011	0.977 ± 0.008	0.977 ± 0.008	0.977 ± 0.008	0.758 ± 0.010	0.974 ± 0.011
<i>datasets\all\inequality\glasshd</i>	0.977 ± 0.003	0.978 ± 0.003	0.977 ± 0.002	0.978 ± 0.001	0.978 ± 0.001	0.978 ± 0.001	0.976 ± 0.001	0.977 ± 0.001	0.968 ± 0.007	0.980 ± 0.014	0.980 ± 0.003
<i>datasets\all\devleand - 0-4-8</i>	0.928 ± 0.020	0.933 ± 0.010	0.941 ± 0.017	0.941 ± 0.017	0.941 ± 0.017	0.941 ± 0.017	0.923 ± 0.015	0.928 ± 0.010	0.908 ± 0.026	0.939 ± 0.011	0.941 ± 0.012
<i>datasets\all\glass - 0 - 1-3 - 3 - Sddr</i>	0.932 ± 0.012	0.936 ± 0.007	0.936 ± 0.009	0.937 ± 0.006	0.937 ± 0.006	0.937 ± 0.006	0.930 ± 0.016	0.932 ± 0.008	0.925 ± 0.016	0.935 ± 0.006	0.936 ± 0.007
<i>datasets\all\glasshd</i>	0.976 ± 0.005	0.976 ± 0.005	0.978 ± 0.004	0.978 ± 0.004	0.978 ± 0.004	0.978 ± 0.004	0.978 ± 0.005	0.977 ± 0.003	0.971 ± 0.005	0.979 ± 0.007	0.979 ± 0.006
<i>datasets\all\poker - 9-8-8</i>	0.991 ± 0.001	0.991 ± 0.002	0.992 ± 0.000	0.992 ± 0.000	0.992 ± 0.000	0.992 ± 0.000	0.992 ± 0.000	0.992 ± 0.000	0.983 ± 0.003	0.992 ± 0.000	0.992 ± 0.000
<i>datasets\all\poker - 9-8-8</i>	0.991 ± 0.001	0.991 ± 0.001	0.992 ± 0.000	0.992 ± 0.000	0.992 ± 0.000	0.992 ± 0.000	0.992 ± 0.000	0.992 ± 0.000	0.983 ± 0.003	0.992 ± 0.000	0.992 ± 0.000
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011	0.937 ± 0.011
<i>datasets\all\poker - 9-8-8</i>	0.937 ± 0.011	0.937 ± 0.011	0.9								

Table 6. Specificity

	Dataset name	De-Forest-gm	De-AForest-AUC	De-Forest-gm-b	De-Forest-AUC-b	De-Forest-back	RandomF5	RandomF5-b	DT	RF	RF-b
	<i>datasets\gl\glassd</i>	0.469 ± 0.357	0.349 ± 0.245	0.573 ± 0.271	0.066 ± 0.071	0.066 ± 0.071	0.066 ± 0.071	0.238 ± 0.194	0.175 ± 0.273	0.578 ± 0.344	0.430 ± 0.189
	<i>datasets\gl\inequality</i>	- <i>white</i> - <i>8</i> - <i>10</i>	0.111 ± 0.166	0.111 ± 0.166	0.100 ± 0.201	0.100 ± 0.201	0.100 ± 0.201	0.030 ± 0.006	0.030 ± 0.006	0.191 ± 0.204	0.127 ± 0.192
	<i>datasets\gl\inequality</i>	- <i>red</i> - <i>8</i> - <i>9</i> - <i>10</i>	0.141 ± 0.033	0.141 ± 0.033	0.130 ± 0.000	0.130 ± 0.000	0.130 ± 0.000	0.130 ± 0.000	0.119 ± 0.033	0.162 ± 0.070	0.130 ± 0.000
	<i>datasets\gl\inequality</i>	- <i>black</i> - <i>8</i> - <i>9</i> - <i>10</i>	0.130 ± 0.017	0.130 ± 0.017	0.130 ± 0.000	0.130 ± 0.000	0.130 ± 0.000	0.130 ± 0.000	0.119 ± 0.033	0.162 ± 0.070	0.130 ± 0.000
	<i>datasets\gl\inequality</i>	- <i>glassd</i>	0.238 ± 0.098	0.269 ± 0.078	0.225 ± 0.083	0.191 ± 0.073	0.191 ± 0.073	0.191 ± 0.073	0.191 ± 0.073	0.286 ± 0.038	0.148 ± 0.038
	<i>datasets\gl\devcland</i>	- <i>0</i> - <i>1</i> - <i>2</i> - <i>3</i> - <i>4</i>	0.276 ± 0.162	0.246 ± 0.114	0.226 ± 0.128	0.319 ± 0.207	0.319 ± 0.207	0.319 ± 0.207	0.319 ± 0.207	0.387 ± 0.124	0.330 ± 0.191
	<i>datasets\gl\ccol</i>	- <i>0</i> - <i>1</i> - <i>2</i> - <i>3</i> - <i>4</i>	0.563 ± 0.141	0.563 ± 0.141	0.563 ± 0.141	0.563 ± 0.141	0.563 ± 0.141	0.563 ± 0.141	0.563 ± 0.141	0.661 ± 0.112	0.601 ± 0.112
	<i>datasets\gl\ccol</i>	- <i>0</i> - <i>1</i> - <i>2</i> - <i>3</i> - <i>4</i>	0.183 ± 0.085	0.245 ± 0.116	0.191 ± 0.062	0.190 ± 0.062	0.190 ± 0.062	0.190 ± 0.062	0.190 ± 0.062	0.245 ± 0.116	0.183 ± 0.085
	<i>datasets\gl\abalone</i>	- <i>21</i> - <i>24</i> - <i>25</i> - <i>26</i>	0.372 ± 0.143	0.372 ± 0.143	0.233 ± 0.168	0.233 ± 0.168	0.233 ± 0.168	0.233 ± 0.168	0.233 ± 0.168	0.442 ± 0.197	0.372 ± 0.143
	<i>datasets\gl\abalone</i>	- <i>1</i> - <i>0</i> - <i>1</i> - <i>0</i> - <i>1</i>	0.088 ± 0.000	0.041 ± 0.019	0.088 ± 0.000	0.088 ± 0.000	0.088 ± 0.000	0.088 ± 0.000	0.088 ± 0.000	0.030 ± 0.040	0.088 ± 0.000
	<i>datasets\gl\abalone</i>	- <i>9</i> - <i>8</i> - <i>9</i> - <i>8</i>	0.250 ± 0.029	0.250 ± 0.028	0.250 ± 0.029	0.250 ± 0.029	0.250 ± 0.029	0.250 ± 0.029	0.250 ± 0.029	0.250 ± 0.029	0.250 ± 0.029
	<i>datasets\gl\abalone</i>	- <i>9</i> - <i>8</i> - <i>9</i> - <i>8</i>	0.445 ± 0.109	0.445 ± 0.109	0.445 ± 0.109	0.445 ± 0.109	0.445 ± 0.109	0.445 ± 0.109	0.445 ± 0.109	0.445 ± 0.109	0.445 ± 0.109
	<i>datasets\gl\abalone</i>	- <i>17</i> - <i>8</i> - <i>9</i> - <i>10</i>	0.166 ± 0.081	0.152 ± 0.052	0.166 ± 0.070	0.095 ± 0.053	0.095 ± 0.053	0.095 ± 0.053	0.095 ± 0.053	0.270 ± 0.081	0.152 ± 0.052
	<i>datasets\gl\abalone</i>	- <i>0</i> - <i>1</i> - <i>6</i> - <i>8</i> - <i>9</i>	0.519 ± 0.169	0.519 ± 0.251	0.519 ± 0.251	0.519 ± 0.251	0.519 ± 0.251	0.519 ± 0.251	0.519 ± 0.251	0.519 ± 0.251	0.519 ± 0.251
	<i>datasets\gl\abalone</i>	- <i>0</i> - <i>1</i> - <i>3</i> - <i>7</i> - <i>8</i> - <i>9</i>	0.180 ± 0.029	0.180 ± 0.029	0.180 ± 0.029	0.180 ± 0.029	0.180 ± 0.029	0.180 ± 0.029	0.180 ± 0.029	0.180 ± 0.029	0.180 ± 0.029
	<i>datasets\gl\abalone</i>	- <i>0</i> - <i>1</i> - <i>3</i> - <i>7</i> - <i>8</i> - <i>9</i>	0.428 ± 0.049	0.428 ± 0.049	0.428 ± 0.049	0.428 ± 0.049	0.428 ± 0.049	0.428 ± 0.049	0.428 ± 0.049	0.428 ± 0.049	0.428 ± 0.049
	<i>datasets\gl\glass</i>	- <i>0</i> - <i>2</i> - <i>3</i> - <i>4</i> - <i>5</i> - <i>6</i>	0.475 ± 0.114	0.484 ± 0.081	0.484 ± 0.082	0.329 ± 0.111	0.329 ± 0.111	0.329 ± 0.111	0.329 ± 0.111	0.519 ± 0.251	0.475 ± 0.114
	<i>datasets\gl\glass</i>	- <i>0</i> - <i>1</i> - <i>4</i> - <i>6</i> - <i>8</i> - <i>9</i>	0.189 ± 0.109	0.155 ± 0.110	0.155 ± 0.110	0.093 ± 0.032	0.093 ± 0.032	0.093 ± 0.032	0.093 ± 0.032	0.227 ± 0.116	0.155 ± 0.110
	<i>datasets\gl\glass</i>	- <i>0</i> - <i>5</i> - <i>6</i> - <i>8</i> - <i>9</i>	0.335 ± 0.101	0.335 ± 0.101	0.335 ± 0.101	0.223 ± 0.045	0.223 ± 0.045	0.223 ± 0.045	0.223 ± 0.045	0.445 ± 0.109	0.335 ± 0.101
	<i>datasets\gl\glass</i>	- <i>0</i> - <i>5</i> - <i>6</i> - <i>8</i> - <i>9</i>	0.672 ± 0.052	0.672 ± 0.052	0.672 ± 0.052	0.062 ± 0.000	0.062 ± 0.000	0.062 ± 0.000	0.062 ± 0.000	0.672 ± 0.052	0.672 ± 0.052
	<i>datasets\gl\kr-vs-k</i>	- <i>6</i> - <i>7</i> - <i>8</i> - <i>9</i> - <i>10</i>	0.652 ± 0.229	0.687 ± 0.250	0.687 ± 0.250	0.701 ± 0.160	0.701 ± 0.160	0.701 ± 0.160	0.701 ± 0.160	0.820 ± 0.289	0.687 ± 0.250
	<i>datasets\gl\ccol</i>	- <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - <i>0</i> - 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