

# Supplementary material

## 1 Identifiers of time series

Table 1: Identifiers for SVDB series

800	801	802	803	804	805	806	807
808	809	810	811	812	820	821	822
823	824	825	826	827	828	829	840
841	842	843	844	845	846	847	848
849	850	851	852	853	854	855	856
857	858	859	860	861	862	863	864
866	867	868	869	870	871	872	873
874	875	876	877	878	879	880	882
883	884	885	886	887	888	889	890
891	892	893	894				

Table 2: Identifiers for AIOPS series

KPI-4d2af31a-9916-3d9f-8a8e-8a268a48c095	KPI-6efa3a07-4544-34a0-b921-a155bd1a05e8
KPI-55f8b8b8-b659-38df-b3df-e4a5a8a54bc9	KPI-7103fa0f-cac4-314f-addc-866190247439
KPI-43115f2a-baeb-3b01-96f7-4ea14188343c	KPI-a07ac296-de40-3a7c-8df3-91f642cc14d0
KPI-a8c06b47-cc41-3738-9110-12df0ee4c721	KPI-ab216663-dcc2-3a24-b1ee-2c3e550e06c9
KPI-c69a50cf-ee03-3bd7-831e-407d36c7ee91	KPI-c02607e8-7399-3dde-9d28-8a8da5e5d251
KPI-da10a69f-d836-3baa-ad40-3e548ecf1fbd	KPI-f0932edd-6400-3e63-9559-0a9860a1baa9
KPI-57051487-3a40-3828-9084-a12f7f23ee38	

Table 3: Identifiers for NormA series

Discords_annsgun.test
Discords_dutch_power_demand.test
Discords_patient_respiration1.test
Discords_patient_respiration2.test
Discords_marotta_valve_tek_14.test

Table 4: Identifiers for NAB series

NAB_data.CloudWatch_1	NAB_data.CloudWatch_2
NAB_data.CloudWatch_3	NAB_data.CloudWatch_4
NAB_data.CloudWatch_5	NAB_data.CloudWatch_6
NAB_data.CloudWatch_8	NAB_data.CloudWatch_9
NAB_data.CloudWatch_10	NAB_data.CloudWatch_11
NAB_data.CloudWatch_12	NAB_data.CloudWatch_13
NAB_data.CloudWatch_14	NAB_data.CloudWatch_15
NAB_data.CloudWatch_16	NAB_data.CloudWatch_17
NAB_data.Exchange_1	NAB_data.Exchange_2
NAB_data.Exchange_3	NAB_data.Exchange_4
NAB_data.Exchange_5	NAB_data.Exchange_6
NAB_data.KnownCause_1	NAB_data.KnownCause_2
NAB_data.KnownCause_3	NAB_data.KnownCause_4
NAB_data.KnownCause_5	NAB_data.KnownCause_6
NAB_data.KnownCause_7	NAB_data.Traffic_1
NAB_data.Traffic_2	NAB_data.Traffic_3
NAB_data.Traffic_4	NAB_data.Traffic_5
NAB_data.Traffic_6	NAB_data.Traffic_7
NAB_data.tweets_1	NAB_data.tweets_2
NAB_data.tweets_3	NAB_data.tweets_4
NAB_data.tweets_5	NAB_data.tweets_6
NAB_data.tweets_7	NAB_data.tweets_8
NAB_data.tweets_9	NAB_data.tweets_10

Table 5: Identifiers for UCR series

001_UCR_Anomaly_DISTORTED1sddb40_35000_52000_52620
002_UCR_Anomaly_DISTORTED2sddb40_35000_56600_56900
003_UCR_Anomaly_DISTORTED3sddb40_35000_46600_46900
004_UCR_Anomaly_DISTORTEDBIDMC1_2500_5400_5600
005_UCR_Anomaly_DISTORTEDCIMIS44AirTemperature1_4000_5391_5392
006_UCR_Anomaly_DISTORTEDCIMIS44AirTemperature2_4000_5703_5727
007_UCR_Anomaly_DISTORTEDCIMIS44AirTemperature3_4000_6520_6544
008_UCR_Anomaly_DISTORTEDCIMIS44AirTemperature4_4000_5549_5597
009_UCR_Anomaly_DISTORTEDCIMIS44AirTemperature5_4000_4852_4900
010_UCR_Anomaly_DISTORTEDCIMIS44AirTemperature6_4000_6006_6054
011_UCR_Anomaly_DISTORTEDECG1_10000_11800_12100
012_UCR_Anomaly_DISTORTEDECG2_15000_16000_16100
013_UCR_Anomaly_DISTORTEDECG3_15000_16000_16100
014_UCR_Anomaly_DISTORTEDECG3_8000_17000_17100
015_UCR_Anomaly_DISTORTEDECG4_5000_16800_17100
016_UCR_Anomaly_DISTORTEDECG4_5000_16900_17100
017_UCR_Anomaly_DISTORTEDECG4_5000_17000_17100
018_UCR_Anomaly_DISTORTEDECG4_8000_17000_17100
019_UCR_Anomaly_DISTORTEDGP711MarkerLFM5z1_5000_6168_6212
020_UCR_Anomaly_DISTORTEDGP711MarkerLFM5z2_5000_7175_7388
021_UCR_Anomaly_DISTORTEDGP711MarkerLFM5z3_5000_5948_5993

022\_UCR\_Anomaly\_DISTORTEDGP711MarkerLFM5z4\_4000\_6527\_6645  
 023\_UCR\_Anomaly\_DISTORTEDGP711MarkerLFM5z5\_5000\_8612\_8716  
 024\_UCR\_Anomaly\_DISTORTEDInternalBleeding10\_3200\_4526\_4556  
 025\_UCR\_Anomaly\_DISTORTEDInternalBleeding14\_2800\_5607\_5634  
 026\_UCR\_Anomaly\_DISTORTEDInternalBleeding15\_1700\_5684\_5854  
 027\_UCR\_Anomaly\_DISTORTEDInternalBleeding16\_1200\_4187\_4199  
 028\_UCR\_Anomaly\_DISTORTEDInternalBleeding17\_1600\_3198\_3309  
 029\_UCR\_Anomaly\_DISTORTEDInternalBleeding18\_2300\_4485\_4587  
 030\_UCR\_Anomaly\_DISTORTEDInternalBleeding19\_3000\_4187\_4197  
 031\_UCR\_Anomaly\_DISTORTEDInternalBleeding20\_2700\_5759\_5919  
 032\_UCR\_Anomaly\_DISTORTEDInternalBleeding4\_1000\_4675\_5033  
 033\_UCR\_Anomaly\_DISTORTEDInternalBleeding5\_4000\_6200\_6370  
 034\_UCR\_Anomaly\_DISTORTEDInternalBleeding6\_1500\_3474\_3629  
 035\_UCR\_Anomaly\_DISTORTEDInternalBleeding8\_2500\_5865\_5974  
 036\_UCR\_Anomaly\_DISTORTEDInternalBleeding9\_4200\_6599\_6681  
 037\_UCR\_Anomaly\_DISTORTEDLab2Cmac011215EPG1\_5000\_17210\_17260  
 038\_UCR\_Anomaly\_DISTORTED Lab2Cmac011215EPG2\_5000\_27862\_27932  
 039\_UCR\_Anomaly\_DISTORTEDLab2Cmac011215EPG3\_5000\_16390\_16420  
 040\_UCR\_Anomaly\_DISTORTEDLab2Cmac011215EPG4\_6000\_17390\_17520  
 041\_UCR\_Anomaly\_DISTORTEDLab2Cmac011215EPG5\_7000\_17390\_17520  
 042\_UCR\_Anomaly\_DISTORTEDLab2Cmac011215EPG6\_7000\_12190\_12420  
 043\_UCR\_Anomaly\_DISTORTEDMesoplodonDensirostris\_10000\_19280\_19440  
 044\_UCR\_Anomaly\_DISTORTEDPowerDemand1\_9000\_18485\_18821  
 045\_UCR\_Anomaly\_DISTORTEDPowerDemand2\_14000\_23357\_23717  
 046\_UCR\_Anomaly\_DISTORTEDPowerDemand3\_16000\_23405\_23477  
 047\_UCR\_Anomaly\_DISTORTEDPowerDemand4\_18000\_24005\_24077  
 048\_UCR\_Anomaly\_DISTORTEDTkeepFifthMARS\_3500\_5988\_6085  
 049\_UCR\_Anomaly\_DISTORTEDTkeepFirstMARS\_3500\_5365\_5380  
 050\_UCR\_Anomaly\_DISTORTEDTkeepForthMARS\_3500\_5988\_6085  
 051\_UCR\_Anomaly\_DISTORTEDTkeepSecondMARS\_3500\_9330\_9340  
 052\_UCR\_Anomaly\_DISTORTEDTkeepThirdMARS\_3500\_4711\_4809  
 053\_UCR\_Anomaly\_DISTORTEDWalkingAceleration1\_1500\_2764\_2995  
 054\_UCR\_Anomaly\_DISTORTEDWalkingAceleration5\_2700\_5920\_5979  
 055\_UCR\_Anomaly\_DISTORTEDapneaecg2\_10000\_20950\_21100  
 056\_UCR\_Anomaly\_DISTORTEDapneaecg3\_5000\_11111\_11211  
 057\_UCR\_Anomaly\_DISTORTEDapneaecg4\_6000\_16000\_16100  
 058\_UCR\_Anomaly\_DISTORTEDapneaecg\_10000\_12240\_12308  
 059\_UCR\_Anomaly\_DISTORTEDgait1\_20000\_38500\_38800  
 060\_UCR\_Anomaly\_DISTORTEDgait2\_22000\_46500\_46800  
 061\_UCR\_Anomaly\_DISTORTEDgait3\_24500\_59900\_60500  
 062\_UCR\_Anomaly\_DISTORTEDgaitHunt1\_18500\_33070\_33180  
 063\_UCR\_Anomaly\_DISTORTEDgaitHunt2\_18500\_31200\_31850  
 064\_UCR\_Anomaly\_DISTORTEDgaitHunt3\_23400\_38400\_39200  
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 069\_UCR\_Anomaly\_DISTORTEDinsectEPG5\_3200\_8500\_8501  
 070\_UCR\_Anomaly\_DISTORTEDltstdbs30791AI\_17555\_52600\_52800

071\_UCR\_Anomaly\_DISTORTEDltstdbs30791AS.23000.52600.52800  
 072\_UCR\_Anomaly\_DISTORTEDltstdbs30791ES.20000.52600.52800  
 073\_UCR\_Anomaly\_DISTORTEDpark3m.60000.72150.72495  
 074\_UCR\_Anomaly\_DISTORTEDqtdbSel1005V.4000.12400.12800  
 075\_UCR\_Anomaly\_DISTORTEDqtdbSel100MLII.4000.13400.13800  
 076\_UCR\_Anomaly\_DISTORTEDrespiration10.48000.130700.131880  
 077\_UCR\_Anomaly\_DISTORTEDrespiration11.58000.110800.110801  
 078\_UCR\_Anomaly\_DISTORTEDrespiration1.100000.110260.110412  
 079\_UCR\_Anomaly\_DISTORTEDrespiration2.30000.168250.168250  
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 085\_UCR\_Anomaly\_DISTORTEDs20101m.10000.35774.35874  
 086\_UCR\_Anomaly\_DISTORTEDsddb49.20000.67950.68200  
 087\_UCR\_Anomaly\_DISTORTEDsel840mECG1.17000.51370.51740  
 088\_UCR\_Anomaly\_DISTORTEDsel840mECG2.20000.49370.49740  
 089\_UCR\_Anomaly\_DISTORTEDtiltAPB1.100000.114283.114350  
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 092\_UCR\_Anomaly\_DISTORTEDtiltAPB4.20000.67995.67996  
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 104\_UCR\_Anomaly\_NOISEapneaecg4.6000.16000.16100  
 105\_UCR\_Anomaly\_NOISEgait3.24500.59900.60500  
 106\_UCR\_Anomaly\_NOISEgaitHunt2.18500.31200.31850  
 107\_UCR\_Anomaly\_NOISEinsectEPG3.5200.7000.7050  
 108\_UCR\_Anomaly\_NOISErespiration2.30000.168250.168250  
 109\_UCR\_Anomaly\_1sddb40.35000.52000.52620  
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 111\_UCR\_Anomaly\_3sddb40.35000.46600.46900  
 112\_UCR\_Anomaly\_BIDMC1.2500.5400.5600  
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 114\_UCR\_Anomaly\_CIMIS44AirTemperature2.4000.5703.5727  
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 117\_UCR\_Anomaly\_CIMIS44AirTemperature5.4000.4852.4900  
 118\_UCR\_Anomaly\_CIMIS44AirTemperature6.4000.6006.6054  
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 120\_UCR\_Anomaly\_ECG2.15000.16000.16100

121\_UCR\_Anomaly\_ECG3\_15000\_16000\_16100  
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 123\_UCR\_Anomaly\_ECG4\_5000\_16800\_17100  
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 135\_UCR\_Anomaly\_InternalBleeding16\_1200\_4187\_4199  
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 168\_UCR\_Anomaly\_gait2\_22000\_46500\_46800  
 169\_UCR\_Anomaly\_gait3\_24500\_59900\_60500

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 177\_UCR\_Anomaly\_insectEPG5\_3200\_8500\_8501  
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 180\_UCR\_Anomaly\_ltstdbs30791ES\_20000\_52600\_52800  
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 182\_UCR\_Anomaly\_qtdbSel1005V\_4000\_12400\_12800  
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 185\_UCR\_Anomaly\_resperation11\_58000\_110800\_110801  
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 196\_UCR\_Anomaly\_sel840mECG2\_20000\_49370\_49740  
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 199\_UCR\_Anomaly\_tiltAPB3\_40000\_114000\_114370  
 200\_UCR\_Anomaly\_tiltAPB4\_20000\_67995\_67996  
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 207\_UCR\_Anomaly\_CHARISfive\_3165\_26929\_26989  
 208\_UCR\_Anomaly\_CHARISfive\_5130\_27929\_27989  
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 211\_UCR\_Anomaly\_Italianpowerdemand\_38113\_39240\_39336  
 212\_UCR\_Anomaly\_Italianpowerdemand\_8913\_29480\_29504  
 213\_UCR\_Anomaly\_STAFFIIIDatabase\_33211\_126920\_127370  
 214\_UCR\_Anomaly\_STAFFIIIDatabase\_34211\_125720\_126370  
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 217\_UCR\_Anomaly\_STAFFIIIDatabase\_38211\_150720\_151370  
 218\_UCR\_Anomaly\_STAFFIIIDatabase\_41117\_210720\_211370

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 222\_UCR\_Anomaly\_mit14046longtermecg\_56123.91200.91700  
 223\_UCR\_Anomaly\_mit14046longtermecg\_74123.131200.131700  
 224\_UCR\_Anomaly\_mit14046longtermecg\_76123.191200.191700  
 225\_UCR\_Anomaly\_mit14046longtermecg\_81214.143000.143300  
 226\_UCR\_Anomaly\_mit14046longtermecg\_96123.123000.123300  
 227\_UCR\_Anomaly\_mit14134longtermecg\_11231.29000.29100  
 228\_UCR\_Anomaly\_mit14134longtermecg\_11361.47830.47850  
 229\_UCR\_Anomaly\_mit14134longtermecg\_16363.57960.57970  
 230\_UCR\_Anomaly\_mit14134longtermecg\_19363.19510.19610  
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 237\_UCR\_Anomaly\_mit14157longtermecg\_19313.89560.90370  
 238\_UCR\_Anomaly\_mit14157longtermecg\_21311.72600.72780  
 242\_UCR\_Anomaly\_tilt12744mtable\_100000.104630.104890  
 243\_UCR\_Anomaly\_tilt12744mtable\_100000.203355.203400  
 244\_UCR\_Anomaly\_tilt12754table\_100013.104630.104890  
 245\_UCR\_Anomaly\_tilt12754table\_100211.270800.271070  
 246\_UCR\_Anomaly\_tilt12755mtable\_100211.270800.271070  
 247\_UCR\_Anomaly\_tilt12755mtable\_50211.121900.121980  
 248\_UCR\_Anomaly\_weallwalk\_2000.4702.4707  
 249\_UCR\_Anomaly\_weallwalk\_2753.8285.8315  
 250\_UCR\_Anomaly\_weallwalk\_2951.7290.7296

## 2 Results of pre-treatment

Table 6: Comparison, in terms of AUCROC, of the average ranks of the normalisations according to the algorithm applied and the approach used (‘TS’: application of windowing, ‘FE’: application of windowing and calculation of statistics).

			Without Normalisation	MinMax	MedianIQR	MeanStd
SVDB	IF	TS	2.079	1.893	3.360	2.668
		FE	1.887	2.487	3.128	2.498
	LOF	TS	2.278	2.679	2.141	2.901
		FE	1.880	2.258	2.258	3.604
AIOPS + NormA	IF	TS	1.889	2.285	2.486	3.340
		FE	2.104	2.938	2.556	2.403
	LOF	TS	1.694	2.986	2.604	2.715
		FE	2.618	2.611	2.465	2.306

### 3 Comparison of the performance of the IF and LOF algorithms

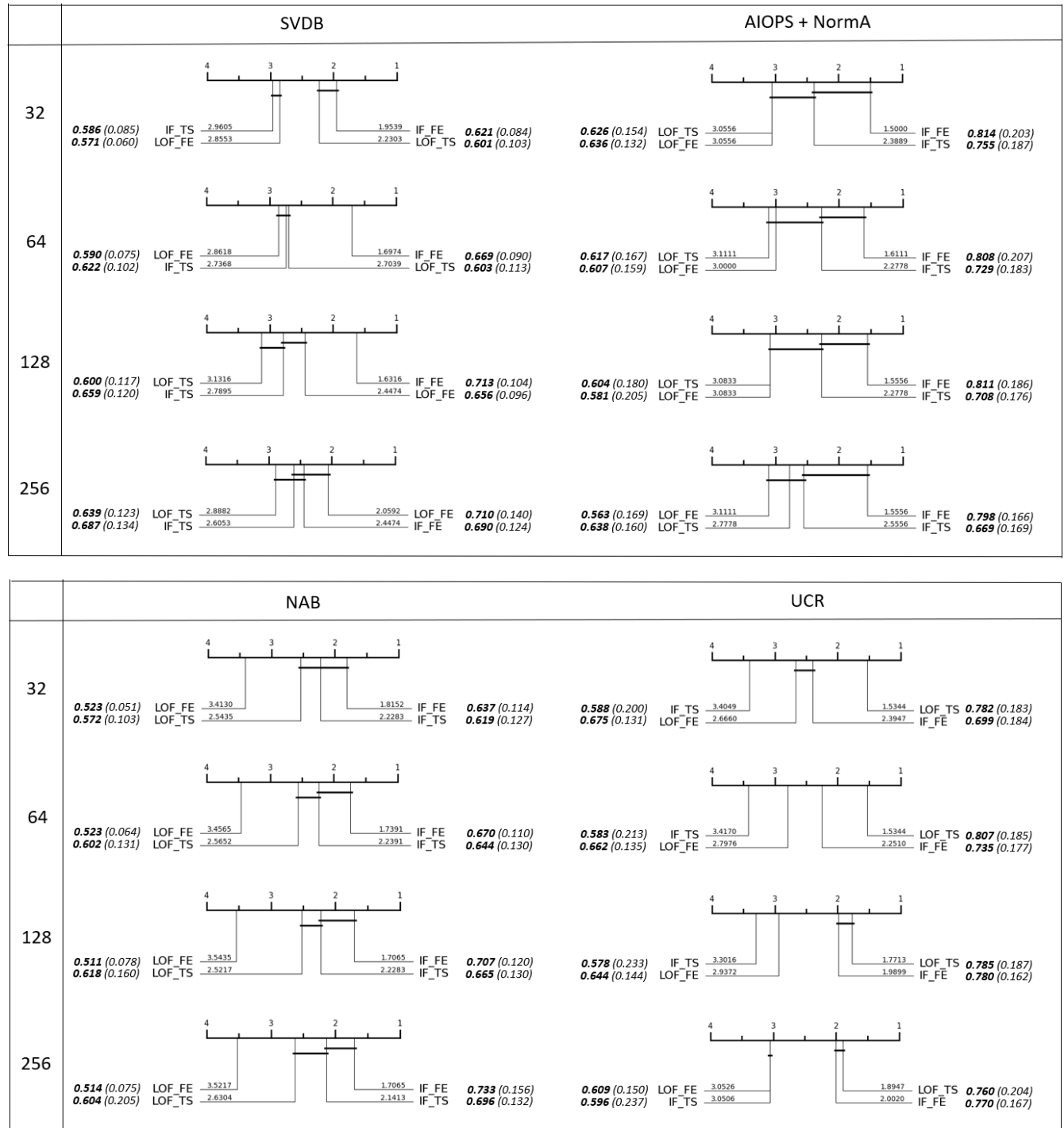


Figure 1: Critical difference diagrams