

Early classification of time series using multi-objective optimization techniques

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In this document, we provide the exact values for the Δ , M_3 and Hypervolume for *the baseline method* and our proposal.

Table 1: Multiobjective evaluation metrics when comparing *the baseline method* to our proposal. The first columns within each metric belongs to *the baseline method* and the second to our proposal.

	Δ		M_3		Hypervolume	
50words	1,10	0,86	115,97	116,40	5508,01	5670,65
Adiac	1,00	1,00	49,74	123,49	4893,39	5382,47
Beef	0,85	0,81	68,17	74,17	4606,11	4673,33
CBF	1,10	1,03	65,21	64,23	7750,15	7942,74
ChlorineConcentration	-	0,96	40,25	72,33	5714,06	6006,25
CinC_ECG_torso	1,18	1,04	82,63	78,47	6313,43	6850,01
Coffee	0,79	0,88	83,21	85,18	7383,93	7725,13
Cricket_X	0,94	0,82	67,87	89,53	5068,68	5339,51
Cricket_Y	0,78	0,85	81,32	92,10	6038,31	6138,88
Cricket_Z	0,74	0,76	94,18	98,46	5590,30	5638,35
DiatomSizeReduction	-	0,99	-	7,35	-	6979,05
ECG200	0,96	0,97	13,45	52,70	8332,55	8564,05
ECGFiveDays	0,91	1,03	39,61	34,07	6427,55	6460,69
FaceAll	0,88	0,85	65,95	81,31	7984,58	8053,42
FaceFour	0,97	0,88	71,25	71,25	7893,01	8263,82
FacesUCR	0,99	0,91	70,82	93,30	6794,32	6968,88
fish	0,88	0,87	74,29	74,40	7599,18	7664,42
Gun_Point	0,93	1,00	45,43	45,43	8488,60	8556,02
Haptics	1,08	1,07	51,04	95,02	4169,54	4346,58
InlineSkate	0,92	0,95	60,27	30,66	2695,04	2661,00
ItalyPowerDemand	1,11	0,99	58,31	59,59	8046,57	8173,49
Lighting2	-	0,98	32,62	34,43	7077,00	7093,79
Lighting7	1,02	0,97	46,23	36,99	5412,08	5111,56
MALLAT	1,11	1,07	137,02	132,75	7069,53	7416,28
MedicalImages	1,00	0,98	19,04	16,87	7011,01	7034,46
MoteStrain	1,03	0,98	20,56	27,36	7999,98	8046,21
OliveOil	-	0,86	33,83	31,50	5740,00	5838,33
OSULeaf	0,97	0,96	46,12	29,73	4809,70	4934,84
SonyAIBORobotSurface	-	-	-	-	-	-
SonyAIBORobotSurfaceII	1,01	0,97	20,10	20,20	7504,26	7428,40
StarLightCurves	1,01	0,98	18,88	21,90	9086,81	9126,33
SwedhLeaf	0,95	0,90	53,18	57,51	7750,29	7812,32
Symbols	1,00	0,99	56,17	11,84	6649,85	6948,62
synthetic_control	0,97	1,07	55,45	115,83	8809,43	8880,28
Trace	1,00	0,75	62,55	71,20	7168,35	7248,90
TwoLeadECG	1,07	1,00	33,24	15,07	7647,01	7083,39
Two_Patterns	1,23	0,59	154,98	154,73	5326,81	6034,83
uWaveGestureLibrary_X	0,86	0,72	92,23	121,34	6349,13	6530,34
uWaveGestureLibrary_Y	0,85	0,82	99,75	136,65	5734,06	5839,45
uWaveGestureLibrary_Z	0,95	0,90	88,12	135,20	6114,57	6212,08
wafer	1,00	1,04	1,66	25,24	9263,75	9414,64
WordsSynonyms	0,99	0,87	106,50	119,84	4777,66	4935,73
yoga	1,08	1,04	43,78	63,18	7729,41	7815,02
NIFEKG_Thorax1	0,98	0,99	24,17	72,67	8338,31	8521,62
NIFEKG_Thorax2	1,09	0,99	43,62	52,02	8720,58	8801,70