Table 1: Results for the datasets Balance, Basketball, Bolts, Coil2000, Fars, House16H, Ionosphere, Magic, Movement Libras, Optdigits, Pollution, Quake y Satimage in the comparison with NGAs

Algorithm	#R	$Av_{Sup}(\sigma)$	$Av_{Conf}(\sigma)$	$Av_{Lift}(\sigma)$	Av_{Conv}	$Av_{CF}(\sigma)$	$Av_{NetConf}(\sigma)$	$Av_{YulesQ}(\sigma)$	$Av_{Amp}(\sigma)$	$Av_{Div}(\sigma)$	$\%Tran(\sigma)$
Balance											
Clearing	24.20	0.08 (0.05)	0.82 (0.10)	2.74 (1.15)	∞	0.68 (0.21)	0.49 (0.18)	0.73 (0.17)	3.47 (0.94)	0.73 (0.04)	89.48 (10.20)
ASCGA	21.20	**0.09** (0.03)	0.73 (0.05)	2.30 (0.44)	∞	0.54 (0.07)	0.39 (0.08)	0.62 (0.09)	**3.34** (0.24)	0.74 (0.05)	75.01 (21.02)
NICGAR	**26.40**	0.06 (0.02)	**0.92** (0.03)	**4.25** (0.44)	∞	**0.86** (0.04)	**0.69** (0.03)	**0.91** (0.02)	3.81 (0.18)	**0.82** (0.02)	89.96 (2.19)
Basketball											
Clearing	**57.00**	0.03 (0.01)	0.98 (0.02)	32.87 (9.48)	∞	0.97 (0.03)	**0.91** (0.03)	**0.99** (0.01)	2.00 (0.01)	**0.99** (0.00)	84.17 (8.12)
ASCGA	10.00	**0.09** (0.07)	0.97 (0.03)	14.81 (11.66)	∞	0.94 (0.05)	0.83 (0.07)	0.98 (0.02)	2.04 (0.05)	0.81 (0.16)	35.84 (9.84)
NICGAR	49.80	0.04 (0.01)	**0.99** (0.01)	9.43 (2.53)	∞	**0.98** (0.02)	0.80 (0.04)	**0.99** (0.01)	2.15 (0.09)	0.95 (0.01)	91.67 (4.04)
Bolts											
Clearing	**21.80**	0.13 (0.07)	0.96 (0.04)	**9.50** (4.16)	∞	0.94 (0.05)	0.84 (0.05)	0.98 (0.02)	2.06 (0.10)	**0.87** (0.06)	99.00 (1.37)
ASCGA	15.60	0.18 (0.04)	0.96 (0.03)	4.91 (2.43)	∞	0.93 (0.05)	0.82 (0.06)	0.97 (0.03)	2.42 (0.29)	0.74 (0.10)	89.00 (16.73)
NICGAR	9.80	**0.30** (0.04)	**0.98** (0.02)	5.51 (1.66)	∞	**0.98** (0.02)	**0.93** (0.03)	**1.00** (0.00)	**2.00** (0.00)	0.82 (0.02)	**100.00** (0.00)
Coil2000											
Clearing	18.60	0.23 (0.10)	0.80 (0.06)	**5.93** (5.20)	∞	0.69 (0.08)	0.63 (0.05)	0.85 (0.06)	2.08 (0.12)	0.75 (0.04)	99.81 (0.36)
ASCGA	**29.00**	0.22 (0.07)	0.63 (0.02)	4.21 (5.46)	∞	0.38 (0.05)	0.32 (0.05)	0.54 (0.04)	2.71 (0.26)	0.81 (0.03)	99.62 (0.82)
NICGAR	25.40	**0.28** (0.03)	**0.93** (0.02)	3.65 (0.51)	∞	**0.89** (0.03)	**0.86** (0.03)	**0.98** (0.01)	2.04 (0.04)	0.82 (0.03)	**99.96** (0.10)
Fars											
Clearing	21.60	0.30 (0.07)	0.93 (0.02)	**12.92** (16.92)	∞	0.87 (0.04)	0.85 (0.04)	0.93 (0.05)	2.20 (0.04)	0.68 (0.04)	92.87 (15.06)
ASCGA	**22.60**	0.22 (0.05)	0.78 (0.09)	8.11 (8.17)	∞	0.61 (0.12)	0.56 (0.11)	0.71 (0.14)	2.51 (0.21)	0.79 (0.02)	99.48 (1.17)
NICGAR	12.60	**0.31** (0.05)	**0.99** (0.00)	5.67 (0.58)	∞	**0.99** (0.01)	**0.98** (0.02)	**1.00** (0.00)	2.02 (0.04)	0.81 (0.04)	**100.00** (0.00)
House16H											
Clearing	**24.60**	0.09 (0.06)	0.81 (0.05)	13.12 (8.20)	∞	0.74 (0.04)	0.69 (0.06)	0.55 (0.22)	2.09 (0.07)	0.72 (0.09)	**83.41** (21.75)
ASCGA	11.60	0.14 (0.06)	0.75 (0.13)	**14.42** (24.64)	∞	0.63 (0.19)	0.57 (0.20)	0.70 (0.07)	2.27 (0.31)	0.70 (0.08)	68.69 (16.64)
NICGAR	6.00	**0.24** (0.04)	**0.92** (0.00)	3.67 (0.71)	15.00	**0.88** (0.01)	**0.83** (0.01)	**0.98** (0.00)	2.00 (0.00)	**0.86** (0.02)	82.18 (13.91)
Ionosphere											
Clearing	**41.00**	0.07 (0.02)	**0.94** (0.02)	55.85 (25.71)	∞	**0.91** (0.03)	**0.86** (0.05)	**0.98** (0.01)	**2.01** (0.02)	**0.92** (0.03)	92.03 (4.34)
ASCGA	13.00	0.18 (0.04)	0.78 (0.07)	3.13 (0.64)	∞	0.67 (0.11)	0.59 (0.09)	0.88 (0.08)	2.43 (0.13)	0.82 (0.07)	82.51 (17.39)
NICGAR	24.80	**0.20** (0.02)	0.85 (0.01)	3.77 (0.59)	∞	0.78 (0.02)	0.74 (0.02)	0.96 (0.00)	2.01 (0.02)	0.88 (0.01)	**99.83** (0.15)
Letter											
Clearing	17.40	0.16 (0.03)	0.87 (0.03)	**7.28** (1.87)	∞	0.77 (0.03)	0.72 (0.05)	0.93 (0.01)	2.11 (0.08)	0.81 (0.04)	**98.26** (1.59)
ASCGA	15.00	**0.18** (0.09)	0.74 (0.06)	4.61 (0.76)	∞	0.59 (0.08)	0.57 (0.09)	0.82 (0.07)	2.40 (0.25)	0.76 (0.07)	85.47 (24.98)
NICGAR	**18.80**	0.15 (0.02)	**0.89** (0.02)	5.94 (1.31)	∞	**0.84** (0.03)	**0.76** (0.04)	**0.96** (0.01)	**2.01** (0.02)	**0.87** (0.01)	98.17 (1.62)
Magic											
Clearing	**9.80**	**0.34** (0.18)	0.93 (0.01)	2.81 (0.64)	10.38	0.79 (0.24)	**0.85** (0.03)	**0.99** (0.01)	2.01 (0.02)	0.77 (0.16)	**99.55** (0.32)
ASCGA	9.20	0.22 (0.09)	0.89 (0.06)	2.88 (0.35)	14.25	0.82 (0.08)	0.72 (0.05)	0.92 (0.07)	2.02 (0.05)	0.57 (0.18)	69.57 (15.76)
NICGAR	6.60	0.26 (0.01)	**0.94** (0.01)	**3.00** (0.06)	**15.30**	**0.91** (0.02)	**0.85** (0.01)	**0.99** (0.01)	2.00 (0.00)	**0.85** (0.01)	94.87 (4.93)
Movement Libras											
Clearing	23.60	0.24 (0.01)	0.94 (0.03)	**5.11** (2.50)	∞	0.90 (0.04)	0.88 (0.04)	0.98 (0.02)	**2.00** (0.00)	**0.87** (0.01)	99.95 (0.12)
ASCGA	20.80	0.21 (0.06)	0.82 (0.11)	2.81 (0.65)	∞	0.70 (0.18)	0.63 (0.21)	0.83 (0.15)	2.57 (0.51)	0.84 (0.05)	94.73 (11.34)
NICGAR	**27.80**	**0.27** (0.01)	**0.98** (0.00)	3.64 (0.05)	∞	**0.97** (0.01)	**0.95** (0.01)	**1.00** (0.00)	**2.00** (0.00)	0.86 (0.00)	**100.00** (0.00)
Optdigits											
Clearing	17.80	0.22 (0.12)	0.84 (0.06)	**5.05** (3.47)	∞	0.69 (0.14)	0.65 (0.07)	0.84 (0.05)	2.07 (0.16)	0.76 (0.07)	96.82 (4.63)
ASCGA	23.80	0.23 (0.07)	0.67 (0.04)	2.07 (0.55)	∞	0.40 (0.08)	0.37 (0.04)	0.60 (0.07)	2.44 (0.14)	0.80 (0.03)	98.99 (1.06)
NICGAR	**28.80**	**0.28** (0.02)	**0.87** (0.02)	3.24 (0.40)	∞	**0.75** (0.05)	**0.71** (0.01)	**0.95** (0.01)	2.05 (0.04)	**0.82** (0.02)	**100.00** (0.00)
Penbased											
Clearing	16.80	0.15 (0.04)	0.82 (0.05)	**4.22** (2.14)	∞	0.73 (0.08)	0.63 (0.08)	0.87 (0.05)	**2.06** (0.06)	0.84 (0.02)	98.08 (1.10)
ASCGA	**19.80**	**0.22** (0.04)	0.76 (0.02)	2.20 (0.31)	∞	0.60 (0.05)	0.53 (0.04)	0.82 (0.05)	2.12 (0.06)	0.66 (0.20)	94.04 (6.20)
NICGAR	15.00	0.18 (0.02)	**0.89** (0.01)	3.64 (0.77)	∞	**0.83** (0.02)	**0.73** (0.03)	**0.95** (0.01)	2.06 (0.10)	**0.88** (0.02)	**98.64** (0.92)
Pollution											
Clearing	48.60	0.05 (0.01)	**0.98** (0.03)	18.68 (3.55)	∞	**0.97** (0.04)	**0.90** (0.04)	0.99 (0.03)	**2.01** (0.02)	**0.96** (0.01)	90.34 (8.53)
ASCGA	13.00	**0.13** (0.07)	0.95 (0.05)	9.54 (3.87)	∞	0.92 (0.06)	0.83 (0.06)	0.98 (0.03)	2.16 (0.23)	0.85 (0.10)	72.67 (22.69)
NICGAR	**57.80**	0.08 (0.01)	**0.98** (0.01)	8.35 (1.33)	∞	**0.97** (0.01)	0.84 (0.02)	**1.00** (0.00)	2.07 (0.05)	0.93 (0.01)	**100.00** (0.00)
Quake											
Clearing	**33.20**	0.03 (0.03)	0.86 (0.08)	38.81 (28.61)	∞	**0.84** (0.09)	0.76 (0.11)	0.84 (0.13)	**2.00** (0.00)	**0.88** (0.06)	75.42 (14.14)
ASCGA	4.60	**0.28** (0.13)	0.84 (0.06)	3.39 (2.64)	5.64	0.72 (0.12)	0.66 (0.07)	0.87 (0.08)	2.08 (0.18)	0.62 (0.12)	72.51 (25.18)
NICGAR	3.60	**0.28** (0.05)	**0.90** (0.01)	2.51 (0.80)	11.40	0.81 (0.02)	0.72 (0.02)	**0.95** (0.01)	**2.00** (0.00)	0.75 (0.03)	**83.15** (1.70)
Satimage											
Clearing	15.20	0.25 (0.03)	**0.92** (0.02)	**5.00** (3.32)	∞	0.86 (0.03)	0.80 (0.03)	0.98 (0.01)	2.01 (0.03)	**0.82** (0.01)	96.34 (6.91)
ASCGA	**30.60**	**0.37** (0.04)	0.83 (0.05)	2.69 (0.10)	∞	0.66 (0.05)	0.66 (0.06)	0.93 (0.01)	2.39 (0.15)	0.71 (0.02)	**100.00** (0.00)
NICGAR	24.00	0.24 (0.01)	**0.92** (0.01)	3.83 (0.31)	12.27	**0.88** (0.01)	**0.85** (0.01)	**0.99** (0.00)	**2.00** (0.00)	**0.82** (0.01)	93.94 (2.29)

Table 2: Results for the datasets Segment, Sonar, Spambase, Stock, Stulong, Texture, Wine, Wdbc y Vowel in the comparison with NGAs

Algorithm	#R	$Av_{Sup}(\sigma)$	$Av_{Conf}(\sigma)$	$Av_{Lift}(\sigma)$	Av_{Conv}	$Av_{CF}(\sigma)$	$Av_{NetConf}(\sigma)$	$Av_{YulesQ}(\sigma)$	$Av_{Amp}(\sigma)$	$Av_{Div}(\sigma)$	$\%Tran(\sigma)$
Segment											
Clearing	11.80	0.20 (0.01)	0.93 (0.05)	4.41 (0.80)	∞	0.91 (0.07)	0.88 (0.08)	0.94 (0.09)	2.02 (0.04)	0.86 (0.03)	98.09 (3.04)
ASCGA	**16.00**	**0.25** (0.06)	0.86 (0.05)	3.38 (0.69)	∞	0.79 (0.05)	0.74 (0.10)	0.88 (0.08)	2.25 (0.18)	0.77 (0.05)	98.76 (1.42)
NICGAR	12.60	0.22 (0.01)	**0.99** (0.01)	**4.91** (0.43)	∞	**0.98** (0.01)	**0.97** (0.01)	**1.00** (0.00)	**2.00** (0.00)	**0.88** (0.01)	**99.76** (0.26)
Sonar											
Clearing	**51.40**	0.06 (0.03)	**0.96** (0.02)	**57.68** (14.37)	∞	**0.93** (0.03)	**0.91** (0.03)	**0.99** (0.01)	**2.00** (0.00)	**0.94** (0.03)	87.02 (22.84)
ASCGA	18.20	0.20 (0.06)	0.77 (0.11)	4.12 (2.92)	∞	0.58 (0.19)	0.51 (0.18)	0.74 (0.17)	2.57 (0.43)	0.85 (0.04)	95.48 (6.32)
NICGAR	22.80	**0.26** (0.03)	0.89 (0.02)	7.56 (5.59)	∞	0.81 (0.02)	0.77 (0.02)	0.97 (0.01)	2.01 (0.02)	0.84 (0.02)	**100.00** (0.00)
Spambase											
Clearing	**32.40**	0.09 (0.12)	0.89 (0.05)	115.83 (93.33)	∞	0.83 (0.09)	0.81 (0.10)	0.88 (0.09)	2.03 (0.04)	**0.84** (0.14)	85.01 (23.67)
ASCGA	20.20	**0.19** (0.03)	0.75 (0.06)	20.22 (20.15)	∞	0.59 (0.04)	0.45 (0.10)	0.72 (0.08)	2.72 (0.33)	0.78 (0.04)	**95.85** (6.84)
NICGAR	11.20	0.12 (0.02)	**0.95** (0.02)	73.02 (28.16)	∞	**0.90** (0.03)	**0.87** (0.04)	**0.98** (0.01)	**2.00** (0.00)	**0.84** (0.05)	76.75 (31.96)
Spectfheart											
Clearing	39.00	0.12 (0.08)	0.97 (0.02)	**61.20** (11.76)	∞	0.91 (0.06)	**0.94** (0.03)	0.99 (0.01)	**2.01** (0.01)	0.86 (0.06)	86.22 (30.82)
ASCGA	12.60	**0.37** (0.10)	0.89 (0.03)	18.04 (10.86)	∞	0.68 (0.10)	0.80 (0.07)	0.95 (0.03)	2.17 (0.19)	0.71 (0.11)	99.25 (1.09)
NICGAR	**72.20**	0.13 (0.01)	**0.98** (0.00)	29.01 (4.73)	∞	**0.92** (0.00)	0.92 (0.02)	**1.00** (0.00)	2.03 (0.05)	**0.89** (0.02)	**100.00** (0.00)
Stock											
Clearing	**14.60**	0.21 (0.07)	0.91 (0.05)	**16.56** (18.61)	∞	0.86 (0.07)	0.78 (0.04)	0.96 (0.04)	**2.06** (0.10)	0.84 (0.05)	**99.41** (0.98)
ASCGA	8.00	**0.28** (0.09)	0.90 (0.06)	2.70 (0.46)	∞	0.85 (0.09)	0.79 (0.11)	0.95 (0.05)	2.18 (0.24)	0.70 (0.13)	81.04 (11.23)
NICGAR	9.20	**0.28** (0.02)	**0.95** (0.01)	3.01 (0.18)	∞	**0.93** (0.02)	**0.87** (0.01)	**0.99** (0.00)	2.07 (0.07)	**0.86** (0.02)	**99.41** (0.23)
Stulong											
Clearing	**10.60**	0.23 (0.12)	**0.87** (0.02)	29.51 (43.04)	∞	0.68 (0.10)	**0.75** (0.11)	**0.94** (0.04)	2.10 (0.14)	0.72 (0.10)	**97.20** (1.52)
ASCGA	7.40	0.16 (0.03)	0.79 (0.01)	9.08 (7.99)	3.44	**0.71** (0.02)	0.65 (0.01)	0.92 (0.01)	**2.00** (0.00)	0.45 (0.05)	44.93 (23.77)
NICGAR	4.20	**0.26** (0.07)	0.79 (0.03)	16.82 (19.90)	∞	0.62 (0.08)	0.64 (0.06)	0.90 (0.03)	2.04 (0.09)	**0.78** (0.06)	84.99 (7.01)
Texture											
Clearing	15.20	**0.29** (0.04)	0.93 (0.02)	3.14 (0.32)	19.47	0.89 (0.03)	0.86 (0.04)	0.98 (0.02)	2.01 (0.03)	**0.83** (0.02)	97.26 (5.77)
ASCGA	16.40	**0.29** (0.04)	0.90 (0.04)	35.96 (56.31)	∞	0.81 (0.07)	0.75 (0.06)	0.93 (0.06)	2.37 (0.28)	0.76 (0.09)	**98.23** (2.05)
NICGAR	**17.40**	0.27 (0.02)	**0.97** (0.00)	3.72 (0.39)	∞	**0.95** (0.00)	**0.92** (0.01)	**1.00** (0.00)	**2.00** (0.00)	0.82 (0.02)	95.85 (4.66)
Thyroid											
Clearing	**27.00**	0.11 (0.16)	0.87 (0.08)	**16.05** (9.81)	∞	0.76 (0.21)	0.77 (0.08)	0.81 (0.10)	2.48 (0.38)	0.73 (0.12)	72.81 (40.62)
ASCGA	20.20	0.17 (0.07)	0.74 (0.06)	6.14 (4.15)	∞	0.53 (0.11)	0.38 (0.16)	0.56 (0.16)	2.64 (0.43)	0.71 (0.09)	88.64 (13.24)
NICGAR	6.20	**0.23** (0.07)	**0.93** (0.02)	14.29 (9.46)	∞	**0.80** (0.07)	**0.85** (0.02)	**0.95** (0.05)	**2.02** (0.05)	**0.79** (0.05)	**98.16** (2.30)
Wdbc											
Clearing	**18.80**	0.19 (0.05)	0.92 (0.04)	48.87 (36.99)	∞	0.88 (0.06)	0.84 (0.07)	0.97 (0.03)	**2.00** (0.00)	**0.86** (0.01)	**99.51** (0.62)
ASCGA	13.80	0.26 (0.04)	0.81 (0.08)	3.18 (1.52)	∞	0.68 (0.14)	0.62 (0.17)	0.81 (0.13)	2.37 (0.35)	0.78 (0.10)	97.62 (2.44)
NICGAR	13.60	**0.27** (0.03)	**0.96** (0.02)	3.49 (0.39)	∞	**0.93** (0.04)	**0.90** (0.03)	**0.99** (0.01)	**2.00** (0.00)	0.84 (0.01)	98.53 (2.10)
Vehicle											
Clearing	13.00	0.26 (0.05)	0.96 (0.02)	**5.21** (3.69)	∞	0.93 (0.04)	0.89 (0.04)	0.97 (0.04)	**2.00** (0.00)	0.84 (0.03)	99.95 (0.10)
ASCGA	**13.80**	0.25 (0.03)	0.92 (0.05)	3.35 (0.57)	∞	0.87 (0.07)	0.84 (0.08)	0.96 (0.04)	2.08 (0.08)	0.76 (0.05)	96.86 (2.81)
NICGAR	12.80	**0.27** (0.03)	**0.97** (0.01)	3.46 (0.26)	∞	**0.95** (0.02)	**0.92** (0.01)	**1.00** (0.00)	**2.00** (0.00)	**0.86** (0.02)	**99.98** (0.05)
Wine											
Clearing	**23.20**	0.14 (0.10)	**0.94** (0.07)	19.43 (18.27)	∞	**0.91** (0.09)	0.83 (0.11)	0.97 (0.05)	2.02 (0.03)	**0.92** (0.09)	93.49 (7.39)
ASCGA	8.40	0.25 (0.04)	0.88 (0.06)	3.70 (2.98)	∞	0.79 (0.11)	0.73 (0.11)	0.92 (0.07)	2.17 (0.25)	0.78 (0.07)	83.71 (21.15)
NICGAR	6.60	**0.28** (0.01)	**0.94** (0.01)	2.79 (0.18)	∞	0.90 (0.02)	**0.84** (0.02)	**0.99** (0.01)	**2.00** (0.00)	0.86 (0.00)	**94.61** (0.85)
Vowel											
Clearing	**51.60**	0.23 (0.40)	**0.96** (0.02)	92.68 (69.98)	∞	0.78 (0.33)	**0.91** (0.04)	0.50 (0.15)	**2.02** (0.02)	0.81 (0.21)	92.10 (8.89)
ASCGA	15.40	0.19 (0.07)	0.79 (0.07)	4.41 (3.00)	∞	0.68 (0.12)	0.59 (0.12)	0.81 (0.11)	2.40 (0.22)	0.77 (0.08)	92.89 (12.00)
NICGAR	8.40	**0.27** (0.11)	0.95 (0.05)	5.81 (2.57)	∞	**0.92** (0.07)	0.89 (0.08)	**0.95** (0.09)	**2.02** (0.05)	**0.85** (0.01)	**100.00** (0.00)