

APPENDIX I: UCI PERFORMANCES

Tables IX to XXIV show the performance results for the UCI data sets using Gentle Adaboost. The results using Linear *SVM* are shown in tables from XXV to XL.

TABLE IX

DERMATHOLOGY PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	92.04(2.32)	89.37(1.89)	91.04(2.37)	58.84(2.07)	91.82(2.33)	92.04(2.17)
<i>IHD</i>	91.59(2.07)	88.05(1.93)	92.37(1.85)	63.42(1.27)	91.72(2.17)	92.02(2.12)
<i>ED</i>	92.04(2.32)	89.37(1.89)	91.04(2.37)	63.69(1.11)	92.04(2.19)	92.04(2.32)
<i>AED</i>	92.04(2.32)	89.37(1.89)	91.04(2.37)	64.79(0.94)	92.04(2.26)	92.04(2.34)
<i>LLB</i>	91.79(2.39)	95.13(1.11)	94.00(1.76)	54.98(1.79)	90.11(2.32)	91.08(2.22)
<i>ELB</i>	92.07(2.14)	95.13(1.11)	94.00(1.76)	58.78(2.17)	92.04(2.25)	92.04(2.39)
<i>PD</i>	91.32(2.39)	95.11(1.86)	92.62(2.19)	44.49(3.58)	92.04(2.05)	91.75(2.04)
<i>LAP</i>	92.04(2.32)	89.37(1.89)	91.04(2.37)	63.69(1.11)	92.04(2.20)	92.04(2.20)
$\beta - DEN$	92.04(2.32)	89.37(1.89)	91.04(2.37)	63.69(1.11)	92.04(2.04)	92.04(2.11)
<i>LLWDiscrete</i>	92.04(2.32)	88.57(1.85)	91.59(2.39)	65.07(0.86)	92.04(2.02)	92.04(2.11)
<i>LLWContinuous</i>	91.79(2.39)	95.13(1.11)	93.72(1.99)	45.28(4.14)	91.54(2.13)	91.98(2.28)
<i>ELWDiscrete</i>	91.77(2.33)	89.39(1.38)	91.59(2.39)	65.07(0.86)	91.72(2.33)	91.81(2.04)
<i>ELWContinuous</i>	92.07(2.04)	95.13(1.11)	94.00(1.76)	43.61(4.24)	92.07(2.38)	92.07(2.25)

TABLE X

IRIS PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	94.00(2.48)	93.33(2.18)	93.33(2.18)	93.33(1.95)	92.44(2.26)	93.33(2.18)
<i>IHD</i>	94.00(2.48)	93.33(2.18)	93.33(2.18)	93.33(1.95)	92.44(2.26)	93.33(2.18)
<i>ED</i>	94.00(2.48)	93.33(2.18)	93.33(2.18)	93.33(1.95)	92.44(2.26)	94.00(2.18)
<i>AED</i>	94.00(2.48)	93.33(2.18)	93.33(2.18)	93.33(1.95)	93.33(2.03)	95.33(1.14)
<i>LLB</i>	94.00(2.48)	95.33(1.14)	95.33(1.14)	95.33(1.14)	92.44(2.26)	94.00(2.18)
<i>ELB</i>	94.00(2.48)	95.33(1.14)	95.33(1.14)	95.33(1.14)	92.44(2.26)	94.00(2.18)
<i>PD</i>	94.00(2.48)	93.33(1.14)	95.33(1.14)	95.33(1.14)	92.44(2.26)	94.00(2.18)
<i>LAP</i>	94.00(2.48)	93.33(2.18)	93.33(2.18)	93.33(1.95)	93.33(2.27)	95.33(1.14)
$\beta - DEN$	94.00(2.48)	93.33(2.18)	93.33(2.18)	93.33(1.95)	93.33(2.18)	95.33(1.14)
<i>LLWDiscrete</i>	94.00(2.48)	93.33(2.18)	93.33(2.18)	93.33(1.95)	93.33(2.18)	95.33(1.14)
<i>LLWContinuous</i>	94.00(2.48)	95.33(1.14)	95.33(1.14)	95.33(1.14)	94.00(2.48)	96.00(1.14)
<i>ELWDiscrete</i>	94.00(2.48)	93.33(2.18)	93.33(2.18)	93.33(1.95)	93.33(2.18)	96.00(1.14)
<i>ELWContinuous</i>	94.00(2.48)	95.33(1.14)	95.33(1.14)	95.33(1.14)	95.33(1.14)	96.00(1.44)

TABLE XI
ECOLI PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	77.87(1.69)	76.45(1.98)	79.46(1.63)	37.32(1.71)	78.01(2.01)	77.46(1.96)
<i>IHD</i>	77.28(1.56)	76.45(1.98)	75.24(1.96)	37.93(1.63)	78.12(2.06)	76.24(1.76)
<i>ED</i>	77.87(1.69)	76.45(1.98)	79.46(1.63)	36.73(2.15)	78.23(1.91)	77.82(2.02)
<i>AED</i>	77.87(1.69)	76.45(1.98)	79.46(1.63)	53.34(1.49)	78.66(1.67)	79.74(1.63)
<i>LLB</i>	81.38(1.37)	80.53(1.56)	81.00(1.19)	28.44(1.93)	78.12(1.58)	77.82(2.02)
<i>ELB</i>	80.53(1.27)	80.53(1.56)	80.39(1.89)	30.22(2.05)	78.92(2.11)	78.02(1.99)
<i>PD</i>	81.47(1.48)	78.44(2.04)	77.73(1.98)	49.33(1.76)	78.42(1.53)	76.42(2.01)
<i>LAP</i>	77.87(1.69)	76.45(1.98)	79.46(1.63)	37.03(1.89)	78.77(1.88)	79.46(1.63)
$\beta - DEN$	77.87(1.69)	76.45(1.98)	79.46(1.63)	35.78(1.21)	78.93(1.85)	79.46(1.63)
<i>LLWDiscrete</i>	78.18(1.65)	75.57(1.97)	79.74(1.69)	53.96(1.58)	79.04(1.15)	79.74(1.69)
<i>LLWContinuous</i>	81.38(1.11)	78.48(1.45)	80.98(1.74)	44.34(2.21)	78.93(1.44)	80.98(1.74)
<i>ELWDiscrete</i>	78.76(1.64)	75.57(1.97)	79.74(1.69)	55.15(1.14)	78.93(1.44)	79.74(1.69)
<i>ELWContinuous</i>	80.53(0.89)	79.09(1.44)	80.68(1.89)	47.74(2.93)	79.22(1.56)	80.98(1.74)

TABLE XII
WINE PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	94.35(0.81)	95.49(1.37)	94.93(1.27)	94.35(1.84)	94.35(0.81)	94.35(0.81)
<i>IHD</i>	94.35(0.81)	95.49(1.37)	94.93(1.27)	94.35(1.84)	94.35(0.81)	94.35(0.81)
<i>ED</i>	94.35(0.81)	95.49(1.37)	94.93(1.27)	94.35(1.84)	95.49(1.37)	95.49(1.37)
<i>AED</i>	94.35(0.81)	95.49(1.37)	94.93(1.27)	94.35(1.84)	96.05(1.18)	96.05(1.18)
<i>LLB</i>	93.79(1.27)	96.05(1.18)	96.05(1.18)	96.05(1.18)	94.35(0.81)	94.35(0.81)
<i>ELB</i>	94.35(0.98)	95.49(1.37)	95.49(1.37)	95.49(1.37)	94.35(0.81)	94.35(0.81)
<i>PD</i>	95.46(1.11)	95.49(1.37)	95.49(1.37)	95.49(1.37)	94.35(0.81)	94.35(0.81)
<i>LAP</i>	94.35(0.81)	95.49(1.37)	94.93(1.27)	94.35(1.84)	96.05(1.18)	96.05(1.18)
$\beta - DEN$	94.35(0.81)	95.49(1.37)	94.93(1.27)	94.35(1.84)	96.05(1.18)	96.05(1.18)
<i>LLWDiscrete</i>	94.35(0.81)	95.49(1.37)	94.93(1.27)	94.35(1.84)	96.05(1.18)	96.05(1.18)
<i>LLWContinuous</i>	93.79(1.27)	96.05(1.18)	96.05(1.18)	96.05(1.18)	96.05(1.18)	96.05(1.18)
<i>ELWDiscrete</i>	94.35(0.81)	95.49(1.37)	94.93(1.27)	94.35(1.84)	96.05(1.18)	96.05(1.18)
<i>ELWContinuous</i>	94.35(0.98)	96.05(1.18)	96.05(1.18)	96.05(1.18)	96.05(1.18)	96.05(1.18)

TABLE XIII
GLASS PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	66.69(3.16)	57.51(3.78)	56.00(4.95)	59.22(3.72)	64.56(2.15)	63.53(2.22)
<i>IHD</i>	67.14(3.08)	53.73(3.77)	45.18(5.32)	56.97(4.04)	64.35(2.56)	65.53(2.84)
<i>ED</i>	66.69(3.16)	57.51(3.78)	56.00(4.95)	59.22(3.72)	64.50(3.25)	66.50(2.78)
<i>AED</i>	66.69(3.16)	57.51(3.78)	56.00(4.95)	58.80(3.64)	65.55(2.87)	66.50(2.78)
<i>LLB</i>	49.31(1.25)	63.68(4.05)	57.87(4.28)	48.64(3.61)	62.64(3.16)	64.01(2.84)
<i>ELB</i>	55.57(3.11)	64.59(4.14)	58.35(3.43)	59.83(3.98)	64.01(2.84)	64.01(2.84)
<i>PD</i>	66.21(2.62)	62.16(2.86)	57.74(4.71)	61.40(3.32)	63.26(2.93)	64.35(2.72)
<i>LAP</i>	66.69(3.16)	57.51(3.78)	56.00(4.95)	59.22(3.72)	66.50(2.78)	66.50(2.78)
$\beta - DEN$	66.69(3.16)	57.51(3.78)	56.00(4.95)	59.22(3.72)	66.50(2.78)	66.50(2.78)
<i>LLWDiscrete</i>	67.16(3.12)	60.26(3.67)	52.75(4.01)	59.22(3.72)	66.50(2.78)	66.69(3.16)
<i>LLWContinuous</i>	49.31(2.25)	64.01(3.79)	57.85(3.98)	53.04(2.85)	66.50(2.78)	66.69(3.16)
<i>ELWDiscrete</i>	67.62(3.02)	55.98(5.08)	53.23(4.28)	59.22(3.72)	66.50(2.78)	66.69(3.16)
<i>ELWContinuous</i>	56.03(3.19)	65.01(3.74)	57.85(3.98)	60.50(3.67)	66.69(3.16)	66.69(3.16)

TABLE XIV
THYROID PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	92.10(3.13)	90.71(2.62)	90.71(2.62)	90.71(2.62)	92.10(3.13)	92.10(3.13)
<i>IHD</i>	92.10(3.13)	90.71(2.62)	90.71(2.62)	90.71(2.62)	92.10(3.13)	92.10(3.13)
<i>ED</i>	92.10(3.13)	90.71(2.62)	90.71(2.62)	90.71(2.62)	92.10(3.13)	92.10(3.13)
<i>AED</i>	92.10(3.13)	90.71(2.62)	90.71(2.62)	90.71(2.62)	92.10(3.13)	92.10(3.13)
<i>LLB</i>	91.17(3.08)	92.10(2.72)	92.10(2.72)	92.10(2.72)	91.17(3.08)	91.17(3.08)
<i>ELB</i>	91.17(3.08)	92.10(2.72)	92.10(2.72)	92.10(2.72)	91.17(3.08)	91.17(3.08)
<i>PD</i>	92.10(2.63)	91.19(2.67)	91.19(2.67)	91.19(2.67)	91.17(3.08)	91.17(3.08)
<i>LAP</i>	92.10(3.13)	90.71(2.62)	90.71(2.62)	90.71(2.62)	92.10(3.13)	92.10(3.13)
$\beta - DEN$	92.10(3.13)	90.71(2.62)	90.71(2.62)	90.71(2.62)	92.10(3.13)	92.10(3.13)
<i>LLWDiscrete</i>	92.10(3.13)	90.71(2.62)	90.71(2.62)	90.71(2.62)	92.10(3.13)	92.10(3.13)
<i>LLWContinuous</i>	91.17(3.08)	92.10(2.72)	92.10(2.72)	92.10(2.72)	91.17(3.08)	91.17(3.08)
<i>ELWDiscrete</i>	92.10(3.13)	90.71(2.62)	90.71(2.62)	90.71(2.62)	92.10(3.13)	92.10(3.13)
<i>ELWContinuous</i>	91.17(3.08)	92.10(2.72)	92.10(2.72)	92.10(2.72)	91.17(3.08)	91.17(3.08)

TABLE XV
VOWEL PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	59.19(2.83)	42.42(2.28)	27.47(2.07)	38.28(2.08)	60.36(2.67)	61.30(2.67)
<i>IHD</i>	57.98(2.59)	43.33(2.29)	24.14(1.86)	27.98(1.26)	61.02(2.76)	60.82(2.57)
<i>ED</i>	59.19(2.83)	42.42(2.28)	27.47(2.07)	44.14(2.27)	62.83(2.62)	62.56(2.87)
<i>AED</i>	59.19(2.83)	42.42(2.28)	27.47(2.07)	43.03(2.56)	63.25(2.92)	64.36(2.62)
<i>LLB</i>	52.32(3.38)	47.47(2.40)	32.32(2.28)	36.26(2.38)	54.36(3.12)	55.63(3.06)
<i>ELB</i>	55.45(3.42)	47.37(2.43)	33.23(2.39)	39.60(2.48)	55.45(3.19)	56.48(3.12)
<i>PD</i>	58.48(3.02)	45.05(2.27)	31.52(2.29)	43.94(2.04)	56.36(3.22)	55.75(3.21)
<i>LAP</i>	59.19(2.83)	42.42(2.28)	27.47(2.07)	44.34(2.19)	64.91(2.68)	65.36(2.17)
$\beta - DEN$	59.19(2.83)	42.42(2.28)	27.47(2.07)	44.34(2.19)	65.12(2.62)	65.36(2.17)
<i>LLWDiscrete</i>	59.09(2.84)	45.66(3.41)	29.70(2.09)	45.15(2.44)	66.71(2.63)	66.79(2.25)
<i>LLWContinuous</i>	52.42(3.42)	48.89(2.53)	33.23(2.48)	40.51(2.24)	67.13(3.21)	69.53(3.11)
<i>ELWDiscrete</i>	59.70(2.82)	45.66(3.41)	29.70(2.09)	44.95(2.58)	66.93(2.53)	68.45(2.59)
<i>ELWContinuous</i>	55.25(3.31)	48.48(2.53)	33.13(2.44)	43.13(1.99)	69.87(3.06)	71.77(3.02)

TABLE XVI
BALANCE PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	78.97(5.02)	47.16(5.49)	50.49(6.19)	42.54(2.08)	78.97(5.02)	78.97(5.02)
<i>IHD</i>	78.97(5.02)	47.16(5.49)	50.49(6.19)	42.54(2.08)	78.97(5.02)	78.97(5.02)
<i>ED</i>	78.97(5.02)	47.16(5.49)	50.49(6.19)	80.15(4.01)	78.97(5.02)	78.97(5.02)
<i>AED</i>	78.97(5.02)	47.16(5.49)	50.49(6.19)	80.15(4.01)	78.97(5.02)	78.97(5.02)
<i>LLB</i>	75.93(4.72)	71.30(5.79)	73.08(6.97)	48.10(2.76)	75.93(4.72)	75.93(4.72)
<i>ELB</i>	77.86(4.53)	72.11(7.96)	72.10(7.98)	63.96(4.86)	77.86(4.53)	77.86(4.53)
<i>PD</i>	82.22(4.19)	79.89(7.76)	80.05(7.79)	78.54(3.79)	82.22(4.19)	82.22(4.19)
<i>LAP</i>	78.97(5.02)	47.16(5.49)	50.49(6.19)	80.15(4.01)	78.97(5.02)	78.97(5.02)
$\beta - DEN$	78.97(5.02)	47.16(5.49)	50.49(6.19)	80.15(4.01)	78.97(5.02)	78.97(5.02)
<i>LLWDiscrete</i>	78.34(4.19)	76.52(7.98)	80.94(8.24)	78.84(5.10)	78.34(4.19)	78.34(4.19)
<i>LLWContinuous</i>	76.09(4.67)	74.87(7.77)	75.67(7.75)	71.02(5.01)	76.09(4.67)	76.09(4.67)
<i>ELWDiscrete</i>	78.34(4.19)	76.52(7.98)	80.94(8.24)	78.84(5.51)	78.34(4.19)	78.34(4.19)
<i>ELWContinuous</i>	77.55(4.46)	74.87(7.77)	75.67(7.75)	73.56(5.24)	77.55(4.46)	77.55(4.46)

TABLE XVII
YEAST PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	49.57(1.38)	45.87(1.12)	46.84(1.34)	44.30(2.15)	48.77(1.32)	49.64(1.38)
<i>IHD</i>	49.30(1.58)	43.32(1.09)	22.42(1.58)	40.22(1.18)	48.93(1.51)	49.94(1.62)
<i>ED</i>	49.57(1.38)	45.87(1.12)	46.84(1.34)	43.50(2.08)	50.32(1.44)	50.88(2.16)
<i>AED</i>	49.57(1.38)	45.87(1.12)	46.84(1.34)	39.35(0.81)	51.77(1.27)	51.98(1.29)
<i>LLB</i>	50.74(1.47)	46.54(1.43)	48.11(1.24)	46.16(1.46)	50.74(1.38)	49.52(1.33)
<i>ELB</i>	51.81(1.93)	46.68(1.38)	47.91(1.21)	45.53(1.54)	50.74(1.38)	50.89(1.57)
<i>PD</i>	49.66(1.34)	45.95(2.41)	41.57(1.25)	34.55(0.81)	48.47(1.52)	49.85(1.58)
<i>LAP</i>	49.57(1.38)	45.87(1.12)	46.84(1.34)	43.57(1.96)	51.77(1.35)	52.04(1.38)
$\beta - DEN$	49.57(1.38)	45.87(1.12)	46.84(1.34)	43.57(1.96)	51.79(1.37)	52.04(1.55)
<i>LLWDiscrete</i>	49.16(1.47)	41.38(1.21)	46.93(1.81)	39.54(1.37)	51.84(1.29)	52.04(1.27)
<i>LLWContinuous</i>	49.46(1.24)	47.96(1.01)	45.29(1.31)	40.12(2.02)	51.76(1.51)	51.88(1.57)
<i>ELWDiscrete</i>	49.16(1.47)	41.38(1.21)	46.86(1.81)	40.20(1.63)	52.04(1.37)	52.04(1.45)
<i>ELWContinuous</i>	51.41(1.73)	49.05(1.31)	45.42(1.35)	40.32(1.81)	51.84(1.19)	52.17(1.86)

TABLE XVIII
SATIMAGE PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	83.25(2.23)	79.37(2.03)	79.91(2.45)	79.56(1.99)	82.05(1.98)	82.15(2.28)
<i>IHD</i>	83.19(2.17)	75.28(1.56)	76.57(2.24)	76.61(1.88)	81.98(2.05)	82.04(2.27)
<i>ED</i>	83.25(2.23)	79.37(2.03)	79.91(2.45)	81.49(1.87)	82.32(2.02)	83.06(2.33)
<i>AED</i>	83.25(2.23)	79.37(2.03)	79.91(2.45)	63.96(1.48)	82.80(2.36)	84.06(2.13)
<i>LLB</i>	83.51(1.71)	83.56(2.03)	84.09(1.91)	76.60(2.56)	81.83(1.79)	83.10(1.19)
<i>ELB</i>	83.23(1.71)	83.57(1.99)	84.24(1.86)	78.71(2.61)	81.88(1.93)	83.43(2.01)
<i>PD</i>	83.31(2.07)	83.15(1.77)	83.90(1.82)	63.75(2.14)	82.14(2.11)	83.23(2.22)
<i>LAP</i>	83.25(2.23)	79.37(2.03)	79.91(2.45)	81.49(1.87)	83.07(2.19)	84.15(2.22)
$\beta - DEN$	83.25(2.23)	79.37(2.03)	79.91(2.45)	81.49(1.87)	83.11(2.28)	84.15(2.09)
<i>LLWDiscrete</i>	83.06(2.19)	80.96(2.02)	80.70(2.37)	67.33(2.54)	83.16(2.49)	84.88(2.36)
<i>LLWContinuous</i>	83.22(1.76)	83.26(2.07)	83.84(1.97)	63.80(3.46)	83.87(1.88)	85.25(1.65)
<i>ELWDiscrete</i>	83.11(2.14)	80.74(2.21)	80.70(2.37)	65.64(1.56)	83.17(2.23)	85.03(2.09)
<i>ELWContinuous</i>	84.13(1.68)	83.31(2.01)	83.82(2.00)	70.59(3.04)	84.07(1.70)	85.37(1.87)

TABLE XIX
LETTER PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	88.16(1.71)	82.54(1.62)	84.32(1.56)	80.31(1.68)	87.35(1.66)	88.31(1.58)
<i>IHD</i>	87.68(1.54)	83.91(1.71)	83.35(1.71)	82.10(1.68)	86.43(1.60)	87.37(1.87)
<i>ED</i>	88.96(1.56)	84.34(1.65)	84.53(1.67)	82.31(1.82)	87.56(1.67)	88.85(1.58)
<i>AED</i>	88.96(1.56)	84.34(1.65)	84.53(1.67)	84.13(1.87)	88.16(1.63)	89.03(1.62)
<i>LLB</i>	88.54(1.62)	85.62(1.74)	83.76(1.68)	82.14(1.76)	86.37(1.80)	87.46(1.74)
<i>ELB</i>	88.76(1.62)	85.89(1.54)	84.51(1.57)	82.80(1.71)	86.77(1.67)	87.72(1.84)
<i>PD</i>	87.65(2.01)	84.37(1.52)	82.74(1.71)	81.21(1.78)	85.62(1.63)	86.37(1.63)
<i>LAP</i>	88.96(1.64)	86.89(1.63)	85.73(1.76)	83.42(1.77)	88.76(1.59)	90.12(1.81)
$\beta - DEN$	88.96(1.64)	87.12(1.60)	88.26(1.50)	83.82(1.51)	89.01(1.54)	90.32(1.58)
<i>LLWDiscrete</i>	88.96(1.86)	87.28(1.63)	87.85(1.50)	84.82(1.44)	89.43(1.58)	91.09(1.63)
<i>LLWContinuous</i>	89.91(1.44)	87.42(1.56)	89.47(1.81)	85.55(1.55)	89.35(1.77)	90.86(1.69)
<i>ELWDiscrete</i>	90.61(1.55)	87.64(1.63)	88.59(1.57)	86.28(1.56)	90.10(1.57)	91.12(1.72)
<i>ELWContinuous</i>	90.77(1.60)	88.83(1.55)	90.70(1.52)	88.05(1.66)	91.74(1.65)	91.92(1.58)

TABLE XX
PENDIGITS PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	96.72(0.92)	91.08(1.01)	90.34(0.96)	83.92(1.11)	91.05(0.98)	96.32(1.02)
<i>IHD</i>	97.02(1.09)	91.76(1.01)	92.10(1.23)	81.84(1.00)	91.24(1.13)	96.07(0.89)
<i>ED</i>	97.34(1.01)	92.72(1.07)	93.20(1.13)	85.87(0.96)	92.31(1.12)	96.87(1.11)
<i>AED</i>	97.34(1.01)	92.72(1.07)	93.20(1.13)	88.98(1.07)	92.84(1.26)	97.06(1.24)
<i>LLB</i>	96.78(0.91)	91.87(0.93)	91.36(1.02)	83.67(0.94)	92.13(0.89)	95.73(1.00)
<i>ELB</i>	96.87(0.71)	91.95(0.75)	92.37(0.77)	85.72(0.73)	93.24(0.82)	96.72(0.81)
<i>PD</i>	96.98(1.09)	90.66(1.39)	91.87(1.04)	84.82(1.14)	92.18(1.05)	96.01(1.13)
<i>LAP</i>	97.34(0.91)	93.02(0.76)	94.72(1.00)	92.73(1.00)	94.37(0.98)	97.16(0.97)
$\beta - DEN$	97.34(0.91)	93.02(0.89)	94.72(0.91)	93.26(1.06)	94.80(0.80)	97.19(0.97)
<i>LLWDiscrete</i>	97.88(0.87)	93.21(0.85)	94.88(0.87)	93.26(0.89)	95.02(0.89)	97.54(0.92)
<i>LLWContinuous</i>	97.98(0.86)	93.24(0.82)	95.32(0.86)	94.02(0.98)	95.82(0.88)	97.64(0.92)
<i>ELWDiscrete</i>	97.96(0.69)	93.19(0.55)	95.01(0.69)	93.26(0.75)	95.35(0.70)	97.62(0.75)
<i>ELWContinuous</i>	98.01(1.01)	93.98(1.06)	95.54(1.01)	94.78(1.06)	96.25(0.95)	97.84(0.97)

TABLE XXI
SEGMENTATION PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	96.10(0.79)	91.82(1.26)	93.03(0.82)	92.16(1.01)	93.13(1.31)	95.09(1.24)
<i>IHD</i>	96.23(0.76)	92.03(1.21)	93.46(0.95)	92.21(0.91)	93.67(1.02)	95.93(1.23)
<i>ED</i>	96.10(0.79)	91.82(1.26)	93.03(0.82)	92.16(1.01)	93.88(1.05)	96.13(1.38)
<i>AED</i>	96.10(0.79)	91.82(1.26)	93.03(0.82)	89.18(1.27)	94.03(0.95)	96.44(1.24)
<i>LLB</i>	93.98(0.92)	95.54(0.78)	94.50(0.82)	71.13(1.61)	93.54(0.97)	94.04(1.03)
<i>ELB</i>	95.80(0.80)	95.58(0.76)	94.55(0.78)	86.32(0.63)	93.58(0.88)	93.92(0.88)
<i>PD</i>	96.06(0.87)	95.24(0.86)	94.20(0.65)	92.07(1.03)	93.25(0.69)	94.00(0.89)
<i>LAP</i>	96.10(0.79)	91.82(1.26)	93.03(0.82)	92.16(1.01)	94.33(0.80)	96.44(1.06)
$\beta - DEN$	96.10(0.79)	91.82(1.26)	93.03(0.82)	92.16(1.01)	94.35(0.70)	96.44(1.17)
<i>LLWDiscrete</i>	96.15(0.81)	93.25(1.31)	93.98(0.92)	92.73(1.06)	94.58(1.01)	96.48(1.38)
<i>LLWContinuous</i>	93.81(0.95)	95.58(0.70)	95.19(0.89)	86.58(0.80)	95.09(0.93)	96.76(0.90)
<i>ELWDiscrete</i>	96.15(0.81)	93.25(1.31)	93.98(0.92)	92.86(0.96)	94.65(0.81)	96.65(1.30)
<i>ELWContinuous</i>	95.84(0.80)	95.54(0.74)	95.19(0.89)	92.51(0.89)	95.97(0.90)	97.01(0.78)

TABLE XXII
OPTDIGITS PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	96.50(0.71)	86.58(2.71)	80.57(2.03)	75.36(1.80)	87.99(2.56)	95.05(1.04)
<i>IHD</i>	96.85(1.10)	85.53(2.23)	66.53(1.96)	71.64(1.69)	87.78(2.67)	95.64(1.13)
<i>ED</i>	96.50(0.71)	86.58(2.71)	80.57(2.03)	79.63(2.28)	88.66(2.90)	96.58(1.32)
<i>AED</i>	96.50(0.71)	86.58(2.71)	80.57(2.03)	74.04(2.33)	89.07(2.80)	96.03(1.25)
<i>LLB</i>	93.11(1.42)	89.61(1.81)	85.91(1.56)	78.70(2.62)	86.73(2.08)	94.03(1.54)
<i>ELB</i>	93.95(0.54)	90.67(1.80)	85.10(1.46)	79.57(2.54)	87.83(2.21)	94.83(1.11)
<i>PD</i>	96.26(0.35)	91.46(1.77)	85.39(1.67)	78.38(2.48)	86.38(1.98)	93.72(0.98)
<i>LAP</i>	96.50(0.71)	86.58(2.71)	83.57(2.03)	79.50(2.36)	89.07(2.80)	96.60(1.03)
$\beta - DEN$	96.50(0.71)	86.58(2.71)	83.57(2.03)	79.63(2.28)	89.07(2.80)	96.60(1.03)
<i>LLWDiscrete</i>	96.80(0.41)	88.49(3.18)	84.43(2.10)	76.96(2.17)	90.27(2.69)	96.90(1.12)
<i>LLWContinuous</i>	93.11(1.42)	92.83(1.64)	86.89(1.64)	79.41(2.58)	91.09(1.87)	96.83(1.32)
<i>ELWDiscrete</i>	96.80(0.41)	88.58(3.02)	84.43(2.10)	77.31(2.18)	91.02(2.63)	99.82(1.04)
<i>ELWContinuous</i>	93.95(0.54)	92.81(1.69)	86.85(1.66)	80.92(2.05)	91.20(3.02)	97.05(1.01)

TABLE XXIII
VEHICLE PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	72.34(3.34)	66.32(3.18)	64.06(2.57)	65.85(2.37)	69.77(3.37)	72.34(3.34)
<i>IHD</i>	72.34(3.34)	67.50(2.68)	65.60(2.05)	70.34(2.47)	69.77(3.37)	72.34(3.34)
<i>ED</i>	72.34(3.34)	66.32(3.18)	64.06(2.57)	70.22(2.36)	69.77(3.37)	72.34(3.34)
<i>AED</i>	72.34(3.34)	66.32(3.18)	64.06(2.57)	71.06(3.69)	69.77(3.37)	72.34(3.34)
<i>LLB</i>	72.35(3.25)	71.99(3.91)	71.75(3.61)	65.36(2.19)	69.77(3.37)	71.08(3.43)
<i>ELB</i>	72.58(3.17)	72.10(3.74)	72.10(3.71)	66.90(2.22)	69.77(3.37)	72.80(3.14)
<i>PD</i>	71.99(3.13)	72.70(2.84)	72.58(2.95)	71.63(2.75)	69.77(3.37)	72.05(3.11)
<i>LAP</i>	72.34(3.34)	66.32(3.18)	64.06(2.57)	70.22(2.36)	69.77(3.37)	72.34(3.34)
$\beta - DEN$	72.34(3.34)	66.32(3.18)	64.06(2.57)	70.22(2.36)	69.77(3.37)	72.34(3.34)
<i>LLWDiscrete</i>	72.69(3.62)	70.58(3.65)	71.40(4.16)	70.22(2.36)	69.77(3.37)	72.70(3.62)
<i>LLWContinuous</i>	72.23(3.07)	72.45(3.53)	72.46(4.46)	69.14(1.99)	69.77(3.37)	72.70(3.62)
<i>ELWDiscrete</i>	72.69(3.62)	70.58(3.65)	71.40(4.16)	70.22(2.36)	69.77(3.37)	72.70(3.62)
<i>ELWContinuous</i>	72.35(3.17)	72.57(3.74)	72.33(4.42)	69.97(1.94)	69.77(3.37)	73.15(3.16)

TABLE XXIV
SHUTTLE PERFORMANCE USING GENTLE ADABOOST.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	99.84(0.07)	99.83(0.07)	99.74(0.10)	85.02(0.07)	99.84(0.07)	99.84(0.07)
<i>IHD</i>	99.68(0.28)	99.83(0.07)	99.72(0.07)	84.97(0.07)	99.68(0.28)	99.68(0.28)
<i>ED</i>	99.84(0.07)	99.83(0.07)	99.74(0.10)	99.87(0.06)	99.84(0.07)	99.84(0.07)
<i>AED</i>	99.84(0.07)	99.83(0.07)	99.74(0.10)	99.82(0.07)	99.84(0.07)	99.84(0.07)
<i>LLB</i>	91.43(0.42)	99.88(0.07)	99.84(0.07)	85.45(0.28)	93.42(0.35)	91.43(0.42)
<i>ELB</i>	98.92(1.03)	99.88(0.07)	99.85(0.07)	85.94(0.47)	98.76(1.24)	98.92(1.03)
<i>PD</i>	99.15(0.60)	95.38(1.42)	97.91(3.13)	94.45(0.88)	98.73(0.82)	99.15(0.07)
<i>LAP</i>	99.84(0.07)	99.83(0.07)	99.74(0.10)	99.87(0.07)	99.84(0.07)	99.84(0.07)
$\beta - DEN$	99.84(0.07)	99.83(0.07)	99.74(0.10)	99.87(0.07)	99.84(0.07)	99.84(0.07)
<i>LLWDiscrete</i>	99.85(0.07)	99.84(0.07)	99.78(0.07)	99.88(0.07)	99.85(0.07)	99.85(0.07)
<i>LLWContinuous</i>	94.31(2.14)	99.88(0.07)	99.85(0.07)	93.67(2.23)	99.85(0.07)	99.85(0.07)
<i>ELWDiscrete</i>	99.86(0.07)	99.84(0.07)	99.78(0.07)	99.88(0.07)	99.86(0.07)	99.86(0.07)
<i>ELWContinuous</i>	99.52(0.20)	99.88(0.07)	99.85(0.07)	99.01(0.07)	99.86(0.07)	99.86(0.07)

TABLE XXV

DERMATHOLOGY PERFORMANCE USING LINEAR *SVM*.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	95.59(0.74)	94.54(1.04)	80.86(1.26)	37.43(0.57)	94.90(0.63)	94.88(1.03)
<i>IHD</i>	95.03(1.07)	95.11(1.27)	30.60(1.30)	38.27(0.77)	93.82(1.16)	93.51(1.07)
<i>ED</i>	95.59(0.74)	94.54(1.04)	80.86(1.26)	44.02(2.49)	95.07(1.02)	95.52(0.94)
<i>AED</i>	95.59(0.74)	94.54(1.04)	80.86(1.26)	86.81(1.70)	96.10(1.04)	95.59(0.75)
<i>LLB</i>	84.82(1.52)	96.12(0.93)	81.41(1.17)	45.60(3.26)	91.84(1.57)	89.26(1.04)
<i>ELB</i>	94.22(1.12)	96.12(0.93)	81.41(1.17)	62.33(2.70)	92.32(1.43)	93.56(1.33)
<i>PD</i>	94.47(1.30)	93.39(1.30)	80.88(1.09)	85.38(3.02)	91.41(1.07)	91.73(1.24)
<i>LAP</i>	95.59(0.74)	94.54(1.04)	80.86(1.26)	44.02(2.49)	96.10(0.94)	95.59(1.00)
$\beta - DEN$	95.59(0.74)	94.54(1.04)	80.86(1.26)	71.91(2.43)	96.10(0.94)	96.10(0.83)
<i>LLWDiscrete</i>	95.59(0.74)	95.10(1.01)	80.86(1.26)	87.09(1.50)	96.20(0.88)	96.31(0.87)
<i>LLWContinuous</i>	84.82(1.52)	96.12(0.93)	81.41(1.17)	76.68(3.03)	96.03(1.42)	96.20(1.42)
<i>ELWDiscrete</i>	95.59(0.74)	95.38(0.86)	80.86(1.26)	87.09(1.50)	96.26(1.03)	96.31(1.07)
<i>ELWContinuous</i>	94.22(1.12)	96.12(0.93)	81.41(1.17)	83.53(3.11)	96.31(1.07)	96.40(1.60)

TABLE XXVI

IRIS PERFORMANCE USING LINEAR *SVM*.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	97.33(1.07)	72.00(2.54)	72.00(2.54)	66.67(1.00)	97.33(1.07)	97.33(1.07)
<i>IHD</i>	97.33(1.07)	72.00(2.54)	72.00(2.54)	66.67(1.00)	97.33(1.07)	97.33(1.07)
<i>ED</i>	97.33(1.07)	72.00(2.54)	72.00(2.54)	97.33(1.07)	97.33(1.07)	97.33(1.07)
<i>AED</i>	97.33(1.07)	72.00(2.54)	72.00(2.54)	97.33(1.07)	97.33(1.07)	97.33(1.07)
<i>LLB</i>	58.00(1.07)	92.67(2.05)	92.67(2.05)	66.67(1.00)	58.00(1.70)	58.00(1.70)
<i>ELB</i>	97.33(1.07)	92.67(2.05)	92.67(2.05)	92.00(1.90)	97.33(1.07)	97.33(1.07)
<i>PD</i>	97.33(1.07)	82.67(2.22)	82.67(2.22)	77.33(1.99)	97.33(1.07)	97.33(1.07)
<i>LAP</i>	97.33(1.07)	72.00(2.54)	72.00(2.54)	97.33(1.07)	97.33(1.07)	97.33(1.07)
$\beta - DEN$	97.33(1.07)	72.00(2.54)	72.00(2.54)	97.33(1.07)	97.33(1.07)	97.33(1.07)
<i>LLWDiscrete</i>	97.33(1.07)	97.33(1.07)	97.33(1.07)	97.33(1.07)	97.33(1.07)	97.33(1.07)
<i>LLWContinuous</i>	58.00(1.70)	94.00(2.05)	94.00(2.05)	78.00(2.39)	58.00(1.70)	58.00(1.70)
<i>ELWDiscrete</i>	97.33(1.07)	97.33(1.07)	97.33(1.07)	97.33(1.07)	97.33(1.07)	97.33(1.07)
<i>ELWContinuous</i>	97.33(1.07)	93.33(2.18)	93.33(2.18)	93.33(1.69)	97.33(1.07)	97.33(1.07)

TABLE XXVII
ECOLI PERFORMANCE USING LINEAR SVM.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	77.02(3.33)	61.60(3.37)	68.12(3.36)	68.42(2.26)	77.23(2.64)	77.80(3.06)
<i>IHD</i>	77.02(3.33)	60.12(3.37)	72.15(2.86)	26.92(2.57)	76.01(2.36)	75.36(3.52)
<i>ED</i>	77.02(3.33)	61.60(3.37)	68.12(3.36)	72.63(3.16)	78.04(2.91)	78.55(2.51)
<i>AED</i>	77.02(3.33)	61.60(3.37)	68.12(3.36)	72.31(3.06)	78.90(3.00)	79.98(3.08)
<i>LLB</i>	75.56(2.76)	78.81(2.57)	76.42(3.45)	69.98(2.69)	74.53(2.94)	76.59(2.73)
<i>ELB</i>	76.13(3.07)	78.81(2.57)	76.42(3.45)	74.34(3.14)	75.35(3.16)	77.48(3.21)
<i>PD</i>	77.92(2.27)	82.44(1.91)	78.53(1.86)	27.50(2.90)	73.42(2.44)	76.98(2.53)
<i>LAP</i>	77.02(3.33)	61.60(3.37)	68.12(3.36)	72.63(3.16)	79.02(2.86)	80.24(2.95)
$\beta - DEN$	77.02(3.33)	61.60(3.37)	68.12(3.36)	72.63(3.16)	79.11(2.90)	80.33(2.51)
<i>LLWDiscrete</i>	78.64(2.49)	68.81(3.42)	71.52(2.79)	68.38(3.80)	79.22(2.45)	80.41(2.60)
<i>LLWContinuous</i>	80.45(2.39)	70.86(3.28)	70.44(3.50)	41.32(3.33)	79.30(2.76)	81.82(2.85)
<i>ELWDiscrete</i>	79.37(2.51)	66.35(3.75)	67.79(3.44)	61.35(4.88)	79.35(3.06)	80.70(2.93)
<i>ELWContinuous</i>	81.30(2.62)	73.05(3.21)	70.36(4.88)	41.10(4.23)	80.90(2.71)	81.94(2.50)

TABLE XXVIII
WINE PERFORMANCE USING LINEAR SVM.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	93.78(1.76)	93.23(1.63)	93.23(1.63)	93.23(1.63)	94.75(1.56)	94.75(1.56)
<i>IHD</i>	93.78(1.76)	93.23(1.63)	93.23(1.63)	93.23(1.63)	94.75(1.56)	94.75(1.56)
<i>ED</i>	93.78(1.76)	93.23(1.63)	93.23(1.63)	93.23(1.63)	94.75(1.56)	94.75(1.56)
<i>AED</i>	93.78(1.76)	93.23(1.63)	93.23(1.63)	93.23(1.63)	95.55(1.49)	95.55(1.49)
<i>LLB</i>	90.97(2.10)	95.55(1.34)	95.55(1.34)	95.55(1.34)	94.75(1.56)	94.75(1.56)
<i>ELB</i>	92.64(1.70)	95.55(1.34)	95.55(1.34)	95.55(1.34)	94.75(1.56)	94.75(1.56)
<i>PD</i>	93.82(1.27)	94.96(0.95)	94.96(0.95)	94.96(0.95)	94.75(1.56)	94.75(1.56)
<i>LAP</i>	93.78(1.76)	93.23(1.63)	93.23(1.63)	93.23(1.63)	95.55(1.49)	95.55(1.49)
$\beta - DEN$	93.78(1.76)	93.23(1.63)	93.23(1.63)	93.23(1.63)	95.55(1.49)	95.55(1.49)
<i>LLWDiscrete</i>	93.78(1.76)	93.23(1.63)	93.23(1.63)	93.23(1.63)	95.55(1.49)	95.55(1.49)
<i>LLWContinuous</i>	90.97(2.10)	95.55(1.34)	95.55(1.34)	95.55(1.34)	95.55(1.49)	95.55(1.49)
<i>ELWDiscrete</i>	93.78(1.76)	93.23(1.63)	93.23(1.63)	93.23(1.63)	95.55(1.49)	95.55(1.49)
<i>ELWContinuous</i>	92.64(1.70)	95.55(1.34)	95.55(1.34)	95.55(1.34)	95.55(1.49)	95.55(1.49)

TABLE XXIX
GLASS PERFORMANCE USING LINEAR SVM.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	55.75(3.60)	48.02(2.30)	40.04(3.08)	43.83(2.45)	52.71(3.02)	55.18(3.16)
<i>IHD</i>	55.77(3.72)	36.35(3.86)	32.79(1.54)	46.07(2.94)	51.09(3.47)	54.52(3.18)
<i>ED</i>	55.75(3.60)	48.02(2.30)	40.04(3.08)	44.60(3.39)	52.99(2.51)	55.90(2.51)
<i>AED</i>	55.75(3.60)	48.02(2.30)	40.04(3.08)	45.72(2.38)	54.40(2.52)	57.47(2.69)
<i>LLB</i>	45.85(2.73)	51.48(3.36)	34.91(3.24)	42.87(2.53)	51.21(2.56)	56.46(3.02)
<i>ELB</i>	57.54(3.03)	51.48(3.36)	34.91(3.24)	45.67(2.95)	52.94(2.86)	57.66(3.12)
<i>PD</i>	57.04(3.59)	51.84(4.58)	33.40(5.46)	45.29(2.29)	51.93(3.09)	56.40(3.19)
<i>LAP</i>	55.75(3.60)	48.02(2.30)	40.04(3.08)	45.20(2.87)	55.93(3.06)	57.73(3.14)
$\beta - DEN$	55.75(3.60)	48.02(2.30)	40.04(3.08)	44.60(3.39)	56.04(2.68)	57.92(3.46)
<i>LLWDiscrete</i>	50.57(3.26)	41.36(3.64)	37.79(2.89)	44.38(2.16)	54.36(3.16)	58.03(3.07)
<i>LLWContinuous</i>	57.84(3.89)	40.43(3.66)	41.45(3.86)	45.77(3.09)	56.80(2.94)	59.04(3.14)
<i>ELWDiscrete</i>	58.14(4.47)	41.36(3.64)	37.38(3.76)	42.78(3.15)	57.89(2.86)	59.13(3.19)
<i>ELWContinuous</i>	58.65(2.66)	42.87(3.41)	41.50(3.47)	45.81(3.31)	58.15(3.32)	59.30(3.16)

TABLE XXX
THYROID PERFORMANCE USING LINEAR SVM.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	94.39(2.15)	91.65(2.67)	91.65(2.67)	81.41(0.94)	94.39(2.15)	94.39(2.15)
<i>IHD</i>	94.39(2.15)	91.65(2.67)	91.65(2.67)	81.41(0.94)	94.39(2.15)	94.39(2.15)
<i>ED</i>	94.39(2.15)	91.65(2.67)	91.65(2.67)	94.39(2.15)	94.39(2.15)	94.39(2.15)
<i>AED</i>	94.39(2.15)	91.65(2.67)	91.65(2.67)	94.39(2.15)	94.39(2.15)	94.39(2.15)
<i>LLB</i>	77.23(1.00)	93.46(2.57)	93.46(2.57)	81.88(0.76)	77.23(1.00)	79.86(1.07)
<i>ELB</i>	92.87(2.22)	93.46(2.57)	93.46(2.57)	94.80(1.59)	92.87(2.22)	92.97(2.32)
<i>PD</i>	93.48(2.49)	85.58(1.98)	85.58(1.98)	89.76(2.31)	93.48(2.49)	93.41(2.46)
<i>LAP</i>	94.39(2.15)	91.65(2.67)	91.65(2.67)	94.39(2.15)	94.39(2.15)	94.39(2.15)
$\beta - DEN$	94.39(2.15)	91.65(2.67)	91.65(2.67)	94.39(2.15)	94.39(2.15)	94.39(2.15)
<i>LLWDiscrete</i>	94.39(2.15)	94.39(2.15)	94.39(2.15)	94.39(2.15)	94.39(2.15)	94.39(2.15)
<i>LLWContinuous</i>	77.23(1.00)	93.44(2.58)	93.44(2.58)	85.63(1.19)	77.23(1.00)	94.87(2.22)
<i>ELWDiscrete</i>	94.39(2.15)	94.39(2.15)	94.39(2.15)	94.39(2.15)	94.39(2.15)	94.39(2.15)
<i>ELWContinuous</i>	94.87(2.22)	93.46(2.57)	93.46(2.57)	94.85(2.00)	94.87(2.22)	94.87(2.22)

TABLE XXXI
VOWEL PERFORMANCE USING LINEAR *SVM*.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	64.95(3.71)	26.67(2.11)	28.18(3.16)	34.34(1.86)	65.73(2.62)	65.46(2.67)
<i>IHD</i>	64.95(3.48)	32.63(2.31)	22.83(1.62)	30.81(1.85)	64.33(3.11)	65.12(2.90)
<i>ED</i>	64.95(3.71)	26.67(2.11)	28.18(3.16)	34.14(1.73)	66.78(2.67)	66.90(2.73)
<i>AED</i>	64.95(3.71)	26.67(2.11)	28.18(3.16)	30.10(2.19)	68.26(2.64)	67.79(2.57)
<i>LLB</i>	31.52(2.65)	43.03(3.10)	33.23(2.56)	31.31(2.16)	67.28(2.99)	67.34(2.79)
<i>ELB</i>	64.95(3.19)	43.03(3.10)	32.93(2.72)	29.80(2.08)	67.82(2.89)	67.56(2.70)
<i>PD</i>	63.64(3.43)	40.51(2.90)	32.42(2.33)	24.18(2.52)	65.36(3.08)	66.37(2.69)
<i>LAP</i>	64.95(3.71)	26.67(2.11)	28.18(3.16)	35.25(1.86)	68.36(3.02)	68.40(2.94)
$\beta - DEN$	64.95(3.71)	26.67(2.11)	28.18(3.16)	35.25(1.86)	68.36(3.08)	68.53(3.13)
<i>LLWDiscrete</i>	65.96(3.61)	32.83(2.10)	31.11(3.05)	35.76(2.54)	69.38(2.91)	68.47(3.02)
<i>LLWContinuous</i>	31.21(2.61)	38.99(3.33)	38.59(2.92)	32.83(2.99)	69.73(2.62)	69.50(2.83)
<i>ELWDiscrete</i>	65.96(3.61)	32.83(2.10)	31.11(3.05)	35.96(2.51)	70.82(2.86)	69.88(2.96)
<i>ELWContinuous</i>	65.15(3.08)	44.14(2.79)	36.26(2.36)	36.06(2.34)	71.44(3.16)	70.87(3.05)

TABLE XXXII
BALANCE PERFORMANCE USING LINEAR *SVM*.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	84.62(4.27)	85.57(4.18)	85.57(4.18)	85.57(4.18)	84.62(4.27)	85.57(4.18)
<i>IHD</i>	84.62(4.27)	85.57(4.18)	85.57(4.18)	85.57(4.18)	84.62(4.27)	85.57(4.18)
<i>ED</i>	84.62(4.27)	85.57(4.18)	85.57(4.18)	85.57(4.18)	82.83(4.39)	85.57(4.18)
<i>AED</i>	84.62(4.27)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)
<i>LLB</i>	82.83(4.39)	83.36(3.52)	83.36(3.52)	83.36(3.52)	82.83(4.39)	83.36(3.52)
<i>ELB</i>	85.43(4.32)	83.36(3.52)	83.36(3.52)	83.36(3.52)	85.43(4.32)	83.36(3.52)
<i>PD</i>	83.36(4.09)	82.23(4.01)	82.23(4.01)	82.23(4.01)	83.36(4.09)	82.23(4.01)
<i>LAP</i>	84.62(4.27)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)
$\beta - DEN$	84.62(4.27)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)
<i>LLWDiscrete</i>	84.62(4.27)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)
<i>LLWContinuous</i>	84.62(4.27)	84.59(4.59)	84.59(4.59)	84.59(4.59)	85.57(4.18)	85.57(4.18)
<i>ELWDiscrete</i>	84.62(4.27)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)
<i>ELWContinuous</i>	84.94(4.31)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)	85.57(4.18)

TABLE XXXIII
YEAST PERFORMANCE USING LINEAR SVM.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	50.79(2.39)	35.52(1.00)	27.82(1.59)	38.00(1.24)	50.23(2.51)	50.35(2.42)
<i>IHD</i>	51.12(2.46)	35.52(1.00)	16.96(1.62)	38.55(1.35)	50.34(2.56)	50.76(2.44)
<i>ED</i>	50.79(2.39)	35.52(1.00)	27.82(1.59)	38.07(1.25)	50.79(2.48)	51.04(2.51)
<i>AED</i>	50.79(2.39)	35.52(1.00)	27.82(1.59)	37.80(1.38)	50.79(2.44)	52.20(2.57)
<i>LLB</i>	50.26(2.31)	50.10(1.13)	26.53(1.53)	37.99(1.64)	50.34(2.45)	50.54(2.62)
<i>ELB</i>	50.38(2.31)	50.10(1.13)	26.67(1.44)	39.08(1.29)	50.63(2.62)	50.98(2.59)
<i>PD</i>	51.17(1.41)	51.64(2.83)	33.65(1.27)	21.76(0.57)	50.73(2.41)	50.30(2.45)
<i>LAP</i>	50.79(2.39)	35.52(1.00)	27.82(1.59)	38.07(1.25)	50.79(2.21)	52.20(2.44)
$\beta - DEN$	50.79(2.39)	35.52(1.00)	27.82(1.59)	38.13(1.31)	50.79(2.28)	52.34(2.46)
<i>LLWDiscrete</i>	51.18(0.42)	17.09(3.48)	40.50(1.21)	34.12(1.75)	51.14(2.66)	52.10(2.37)
<i>LLWContinuous</i>	52.58(2.08)	50.13(1.10)	45.12(1.77)	21.08(0.95)	52.43(2.68)	52.38(2.62)
<i>ELWDiscrete</i>	49.43(2.84)	35.58(1.04)	40.78(1.06)	34.66(2.14)	52.17(2.56)	52.21(2.65)
<i>ELWContinuous</i>	51.36(2.61)	48.70(0.92)	44.83(1.77)	22.16(0.61)	52.45(2.60)	52.63(2.45)

TABLE XXXIV
SATIMAGE PERFORMANCE USING LINEAR SVM.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	83.36(2.02)	70.71(2.16)	72.01(1.25)	71.87(1.65)	74.25(2.12)	81.92(2.06)
<i>IHD</i>	83.32(2.02)	76.81(2.74)	70.24(1.88)	71.03(1.47)	75.36(2.18)	80.37(2.13)
<i>ED</i>	83.36(2.02)	70.71(2.16)	72.01(1.25)	72.60(1.42)	76.38(2.17)	82.03(2.00)
<i>AED</i>	83.36(2.02)	70.71(2.16)	72.01(1.25)	61.52(1.95)	77.89(1.51)	83.02(1.93)
<i>LLB</i>	62.22(2.79)	77.25(2.29)	77.31(1.44)	67.06(3.89)	70.89(1.79)	72.74(2.01)
<i>ELB</i>	83.88(2.13)	77.25(2.29)	77.42(1.43)	72.50(1.91)	73.74(1.97)	78.73(2.07)
<i>PD</i>	80.90(1.74)	77.97(1.50)	74.83(0.99)	63.45(2.15)	72.15(1.73)	77.83(2.11)
<i>LAP</i>	83.36(2.02)	70.71(2.16)	72.01(1.25)	72.60(1.42)	78.03(1.97)	83.20(1.97)
$\beta - DEN$	83.36(2.02)	70.71(2.16)	72.01(1.25)	72.60(1.42)	79.83(2.08)	83.27(2.05)
<i>LLWDiscrete</i>	83.39(2.04)	75.06(2.19)	79.56(2.63)	61.85(1.99)	80.93(1.93)	83.33(2.07)
<i>LLWContinuous</i>	60.28(2.14)	67.32(4.34)	61.79(2.44)	40.31(2.88)	81.73(2.62)	83.17(2.09)
<i>ELWDiscrete</i>	83.39(2.04)	75.06(2.19)	79.56(2.63)	63.87(3.03)	81.31(2.12)	83.49(2.17)
<i>ELWContinuous</i>	83.88(2.12)	78.24(2.52)	80.61(2.56)	66.08(2.18)	82.15(2.05)	84.07(2.00)

TABLE XXXV
LETTER PERFORMANCE USING LINEAR *SVM*.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	85.09(0.88)	36.38(0.76)	65.73(0.86)	63.27(1.01)	80.01(0.84)	85.11(0.97)
<i>IHD</i>	86.01(0.89)	36.93(0.72)	66.71(0.83)	63.74(0.94)	81.17(0.84)	84.93(0.91)
<i>ED</i>	86.11(0.99)	36.38(0.76)	67.28(0.81)	64.83(0.89)	82.09(0.81)	86.25(0.86)
<i>AED</i>	86.11(0.99)	36.38(0.76)	67.28(0.81)	66.27(0.95)	84.21(0.99)	88.71(0.91)
<i>LLB</i>	49.08(1.09)	60.88(0.88)	65.26(0.86)	64.89(1.46)	78.19(0.89)	72.01(0.95)
<i>ELB</i>	85.86(0.91)	60.88(0.88)	66.26(0.86)	65.27(0.95)	79.62(1.00)	79.82(0.80)
<i>PD</i>	68.72(0.91)	51.54(0.73)	65.83(0.94)	64.31(1.06)	77.82(1.01)	74.26(0.95)
<i>LAP</i>	86.22(1.00)	36.38(0.76)	68.73(1.01)	67.10(1.18)	85.15(0.96)	88.89(1.05)
$\beta - DEN$	86.47(0.92)	36.38(0.76)	70.37(0.97)	67.28(0.95)	85.62(0.89)	89.03(0.94)
<i>LLWDiscrete</i>	87.64(0.95)	40.85(0.83)	71.26(0.91)	70.21(1.07)	86.19(0.92)	89.12(0.88)
<i>LLWContinuous</i>	87.85(1.10)	39.85(0.65)	71.87(0.95)	70.55(0.88)	86.10(0.79)	89.10(0.78)
<i>ELWDiscrete</i>	88.61(1.05)	40.81(0.84)	71.66(0.92)	70.37(0.95)	87.21(0.87)	89.27(0.91)
<i>ELWContinuous</i>	88.98(0.96)	47.45(0.91)	72.19(0.95)	71.02(0.98)	88.02(1.07)	89.44(0.97)

TABLE XXXVI
PENDIGITS PERFORMANCE USING LINEAR *SVM*.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	95.73(0.76)	92.37(0.68)	92.18(0.94)	87.82(0.88)	94.28(0.93)	95.87(0.88)
<i>IHD</i>	96.10(0.92)	91.78(0.83)	91.72(1.03)	88.72(0.78)	95.12(0.95)	96.21(0.79)
<i>ED</i>	97.04(0.78)	94.05(0.85)	93.25(0.93)	89.37(0.88)	95.72(0.81)	96.89(0.88)
<i>AED</i>	97.04(0.78)	94.05(0.85)	93.25(0.93)	91.27(0.94)	96.04(0.92)	96.98(0.95)
<i>LLB</i>	95.37(1.09)	93.16(0.92)	91.78(1.01)	90.21(0.97)	93.67(0.98)	94.67(1.01)
<i>ELB</i>	96.21(1.20)	94.28(1.02)	92.16(1.08)	90.21(1.09)	94.26(1.09)	95.37(1.04)
<i>PD</i>	95.63(1.09)	91.72(1.06)	90.36(1.02)	89.71(0.94)	93.62(1.00)	94.20(1.06)
<i>LAP</i>	97.04(0.73)	94.27(0.82)	93.62(0.95)	91.34(0.89)	96.09(0.89)	97.09(0.93)
$\beta - DEN$	97.04(0.82)	94.38(0.87)	93.88(0.92)	91.66(0.92)	96.17(0.92)	97.11(0.94)
<i>LLWDiscrete</i>	97.12(0.78)	94.63(0.74)	93.65(0.84)	91.72(0.88)	96.23(0.56)	97.25(0.89)
<i>LLWContinuous</i>	97.04(1.44)	95.37(1.03)	94.03(1.11)	92.13(1.46)	96.30(1.05)	97.31(1.08)
<i>ELWDiscrete</i>	97.26(1.52)	95.54(1.61)	94.23(1.47)	91.88(1.35)	96.47(1.09)	97.27(1.17)
<i>ELWContinuous</i>	97.36(1.27)	95.87(2.30)	95.62(1.29)	92.73(1.37)	96.69(1.07)	97.42(1.09)

TABLE XXXVII
SEGMENTATION PERFORMANCE USING LINEAR *SVM*.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	95.15(0.62)	80.82(1.21)	81.86(0.66)	70.69(1.39)	94.94(1.02)	95.51(0.62)
<i>IHD</i>	95.11(0.59)	80.87(1.20)	80.74(0.59)	62.77(1.58)	95.03(1.05)	94.27(0.62)
<i>ED</i>	95.15(0.62)	80.82(1.21)	81.86(0.66)	83.81(0.67)	95.07(0.99)	95.74(0.62)
<i>AED</i>	95.15(0.62)	80.82(1.21)	81.86(0.66)	80.00(0.59)	95.30(0.89)	96.10(0.59)
<i>LLB</i>	35.11(1.23)	91.69(0.89)	85.15(0.66)	47.53(1.00)	78.02(1.09)	90.37(1.07)
<i>ELB</i>	95.06(0.65)	91.69(0.89)	84.81(0.71)	84.98(0.75)	95.10(0.91)	94.17(0.84)
<i>PD</i>	90.00(0.84)	89.31(0.76)	73.29(0.69)	71.60(0.66)	93.20(0.89)	92.31(0.57)
<i>LAP</i>	95.15(0.62)	80.82(1.21)	81.86(0.66)	83.72(0.73)	95.48(0.93)	96.12(0.65)
$\beta - DEN$	95.15(0.62)	80.82(1.21)	81.86(0.66)	83.72(0.73)	95.76(0.86)	96.34(0.62)
<i>LLWDiscrete</i>	95.32(0.66)	90.87(0.89)	85.71(0.69)	83.72(0.73)	96.06(0.95)	96.44(0.65)
<i>LLWContinuous</i>	34.59(1.20)	77.06(1.43)	86.71(0.53)	70.00(3.07)	95.83(1.05)	96.10(0.66)
<i>ELWDiscrete</i>	95.32(0.66)	90.87(0.89)	85.71(0.69)	83.72(0.73)	96.16(0.94)	96.59(0.77)
<i>ELWContinuous</i>	95.02(0.65)	92.21(0.73)	86.58(0.78)	85.19(0.79)	96.43(0.92)	96.98(0.69)

TABLE XXXVIII
OPTDIGITS PERFORMANCE USING LINEAR *SVM*.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	96.21(1.18)	89.39(2.38)	82.05(2.87)	71.05(1.95)	91.20(1.89)	96.21(1.08)
<i>IHD</i>	96.23(1.17)	88.91(2.21)	76.67(3.18)	66.47(2.18)	90.26(2.09)	96.21(1.08)
<i>ED</i>	96.21(1.18)	89.39(2.38)	82.05(2.87)	76.78(1.70)	92.06(2.18)	96.21(1.08)
<i>AED</i>	96.21(1.18)	89.39(2.38)	82.05(2.87)	73.86(2.12)	92.30(2.08)	96.21(1.08)
<i>LLB</i>	79.48(3.18)	93.58(1.93)	87.49(2.79)	61.69(2.95)	91.21(2.14)	89.53(2.04)
<i>ELB</i>	96.00(1.17)	93.58(1.93)	87.60(2.82)	76.33(1.24)	92.09(2.15)	96.12(1.13)
<i>PD</i>	95.11(1.16)	94.09(1.57)	87.22(2.56)	71.94(2.00)	91.04(1.87)	95.34(1.24)
<i>LAP</i>	96.21(1.18)	89.39(2.38)	82.05(2.87)	76.92(1.67)	92.70(2.80)	96.77(1.22)
$\beta - DEN$	96.21(1.18)	89.39(2.38)	82.05(2.87)	76.94(1.66)	92.78(2.87)	96.77(1.22)
<i>LLWDiscrete</i>	96.23(1.19)	91.19(2.36)	84.59(2.90)	76.99(1.58)	93.09(2.16)	96.77(1.22)
<i>LLWContinuous</i>	79.48(3.18)	93.59(1.92)	87.95(2.94)	62.05(1.47)	93.36(2.09)	96.83(2.53)
<i>ELWDiscrete</i>	96.21(1.28)	91.23(2.31)	84.57(2.93)	76.85(1.80)	92.09(2.11)	96.77(1.22)
<i>ELWContinuous</i>	96.00(1.17)	93.59(1.93)	87.79(2.79)	81.33(2.42)	94.09(2.22)	96.89(1.44)

TABLE XXXIX
VEHICLE PERFORMANCE USING LINEAR SVM.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	76.12(2.40)	68.67(3.12)	71.27(2.92)	52.01(1.15)	64.00(4.39)	76.12(2.40)
<i>IHD</i>	76.12(2.40)	69.85(2.23)	74.46(2.10)	72.21(1.64)	64.00(4.39)	76.12(2.40)
<i>ED</i>	76.12(2.40)	68.67(3.12)	71.27(2.92)	70.33(2.20)	64.00(4.39)	76.12(2.40)
<i>AED</i>	76.12(2.40)	68.67(3.12)	71.27(2.92)	70.22(2.26)	64.00(4.39)	76.12(2.40)
<i>LLB</i>	71.04(3.20)	78.60(2.40)	74.81(1.84)	67.00(2.66)	65.10(4.31)	71.04(3.20)
<i>ELB</i>	76.47(1.83)	78.72(2.36)	74.93(1.79)	73.04(1.74)	65.70(4.23)	76.47(1.83)
<i>PD</i>	76.00(1.45)	75.06(2.20)	74.23(1.88)	62.06(2.94)	64.37(4.17)	76.00(1.45)
<i>LAP</i>	76.12(2.40)	68.67(3.12)	71.27(2.92)	70.33(2.20)	64.00(4.39)	76.12(2.40)
$\beta - DEN$	76.12(2.40)	68.67(3.12)	71.27(2.92)	70.33(2.20)	64.00(4.39)	76.12(2.40)
<i>LLWDiscrete</i>	76.94(2.03)	74.82(2.26)	73.75(2.74)	70.33(2.20)	64.00(4.39)	76.94(2.03)
<i>LLWContinuous</i>	71.62(2.63)	78.13(2.21)	74.23(2.78)	70.44(2.59)	66.09(4.80)	76.94(2.03)
<i>ELWDiscrete</i>	76.94(2.03)	74.82(2.26)	73.75(2.74)	70.33(2.20)	64.00(4.39)	76.94(2.03)
<i>ELWContinuous</i>	76.95(1.76)	79.07(2.23)	74.70(2.03)	72.81(1.44)	66.10(4.71)	76.95(1.76)

TABLE XL
SHUTTLE PERFORMANCE USING LINEAR SVM.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	97.72(0.30)	97.72(0.30)	96.27(0.63)	97.72(0.30)	97.72(0.30)	97.80(0.32)
<i>IHD</i>	97.79(0.28)	97.72(0.30)	95.63(0.44)	97.72(0.30)	97.72(0.30)	97.78(0.29)
<i>ED</i>	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.80(0.32)
<i>AED</i>	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.80(0.32)
<i>LLB</i>	89.43(1.45)	88.72(1.35)	90.94(1.09)	89.20(1.42)	91.43(1.10)	91.82(1.54)
<i>ELB</i>	97.37(0.46)	97.72(0.30)	94.72(0.87)	97.72(0.30)	97.72(0.30)	97.65(0.87)
<i>PD</i>	96.63(0.33)	95.82(0.65)	93.92(0.88)	96.93(0.75)	97.30(1.00)	96.76(0.71)
<i>LAP</i>	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.80(0.32)
$\beta - DEN$	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.80(0.32)
<i>LLWDiscrete</i>	97.79(0.27)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.89(0.38)
<i>LLWContinuous</i>	97.79(1.44)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.98(0.97)
<i>ELWDiscrete</i>	97.80(0.28)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.92(0.33)
<i>ELWContinuous</i>	97.80(0.44)	97.72(0.30)	97.72(0.30)	97.72(0.30)	97.72(0.30)	98.03(0.77)

APPENDIX II: TRAFFIC SIGN PERFORMANCES

Tables XLI and XLII show the performance results of the traffic sign experiments using Gentle Adaboost and Linear *SVM*, respectively.

TABLE XLI

GENTLE ADABOOST RESULTS FOR THE CODING AND DECODING STRATEGIES ON THE TRAFFIC SIGN DATA SET.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	75.27(3.36)	59.39(2.85)	53.34(1.84)	52.61(2.09)	62.31(2.85)	75.78(2.84)
<i>IHD</i>	75.73(3.60)	60.59(2.97)	47.60(2.27)	48.37(2.17)	63.13(3.02)	74.92(3.28)
<i>ED</i>	75.27(3.36)	59.39(2.85)	53.34(1.84)	54.64(2.38)	63.75(2.85)	76.31(2.79)
<i>AED</i>	75.27(3.36)	59.39(2.85)	53.34(1.84)	53.48(2.22)	67.27(3.33)	78.23(2.86)
<i>LLB</i>	68.25(2.79)	69.12(3.13)	61.04(1.86)	40.42(1.57)	63.00(2.82)	76.23(3.48)
<i>ELB</i>	70.86(2.80)	69.00(3.18)	61.16(1.53)	43.03(1.50)	64.91(2.63)	76.38(3.14)
<i>PD</i>	74.06(3.09)	64.76(4.45)	60.92(1.38)	56.17(2.78)	61.21(2.62)	72.14(3.60)
<i>LAP</i>	75.27(3.36)	59.39(2.85)	53.34(1.84)	54.40(2.39)	68.34(2.93)	79.21(2.64)
$\beta - DEN$	75.27(3.36)	59.39(2.85)	53.34(1.84)	54.64(2.38)	68.34(3.06)	80.10(2.90)
<i>LLWDiscrete</i>	75.26(3.31)	63.03(3.63)	55.44(2.38)	52.89(2.20)	69.62(2.91)	80.33(2.97)
<i>LLWContinuous</i>	68.38(2.75)	69.83(3.33)	62.11(1.69)	45.07(1.77)	70.43(2.84)	81.03(3.46)
<i>ELWDiscrete</i>	75.39(3.16)	63.50(3.38)	55.32(2.37)	53.95(2.08)	70.49(2.95)	80.37(3.32)
<i>ELWContinuous</i>	75.86(2.80)	70.06(3.19)	62.23(1.67)	49.20(1.97)	71.88(2.72)	81.26(3.05)

TABLE XLII

LINEAR *SVM* RESULTS FOR THE CODING AND DECODING STRATEGIES ON THE TRAFFIC SIGN DATA SET.

	one-versus-one	one-versus-all	dense	sparse	decoc	ecoc-one
<i>HD</i>	83.45(3.08)	67.12(2.54)	64.26(2.62)	66.99(2.41)	75.98(2.91)	82.81(2.87)
<i>IHD</i>	83.92(3.14)	68.30(2.82)	56.12(2.63)	61.16(2.43)	76.21(3.10)	83.01(3.08)
<i>ED</i>	83.45(3.08)	67.12(2.54)	64.26(2.62)	70.53(2.72)	78.21(3.00)	83.33(2.82)
<i>AED</i>	83.45(3.08)	67.12(2.54)	64.26(2.62)	67.33(2.45)	79.92(3.03)	84.26(3.23)
<i>LLB</i>	69.24(2.83)	77.76(2.51)	69.47(2.21)	65.83(2.66)	77.28(2.92)	74.39(3.38)
<i>ELB</i>	77.29(3.56)	77.76(2.51)	69.12(2.16)	69.25(2.90)	77.92(3.38)	75.63(3.77)
<i>PD</i>	78.60(3.72)	68.74(5.02)	70.07(2.24)	65.08(2.17)	76.88(3.24)	76.52(3.94)
<i>LAP</i>	83.45(3.08)	67.12(2.54)	64.26(2.62)	70.06(2.76)	80.33(3.00)	82.91(3.50)
$\beta - DEN$	83.45(3.08)	67.12(2.54)	64.26(2.62)	70.06(2.80)	81.11(3.16)	84.26(3.40)
<i>LLWDiscrete</i>	83.45(3.08)	67.12(2.54)	64.26(2.62)	70.89(2.79)	81.03(3.08)	85.36(3.05)
<i>LLWContinuous</i>	69.24(2.83)	77.76(2.51)	69.47(2.21)	66.99(2.27)	80.19(2.76)	85.84(3.11)
<i>ELWDiscrete</i>	83.10(3.24)	68.79(2.56)	64.61(2.43)	70.29(2.82)	81.14(2.90)	86.82(3.08)
<i>ELWContinuous</i>	83.65(3.56)	77.76(2.51)	69.12(2.16)	71.84(2.86)	81.12(3.19)	87.87(3.31)