

**Table 9.a** Spearman’s rank correlation coefficient for the ensemble diversity and the gain of the ensemble for the **OPTDIGITS** Dataset. The best values are in bold. The shaded values represent the ensembles in which the measure diversity and the gain of the ensemble are uncorrelated.

	Full Feature Space				Feature Subspace Selected by CFS			
	RandomInit	Bagging	Boosting	BCE	RandomInit	Bagging	Boosting	BCE
Q statistic	-0.505	0.481	-0.118	-0.550	-0.544	-0.533	-0.160	-0.698
Correlation coefficient	-0.121	0.480	-0.120	-0.205	-0.300	-0.272	-0.133	-0.508
Disagreement measure	0.757	0.429	-0.044	0.795	0.661	0.609	-0.003	0.805
Double-fault measure	0.436	0.465	-0.145	0.330	0.222	0.171	-0.100	0.122
Kappa degree-of- agreement statistic	-0.728	0.456	0.053	-0.777	-0.657	-0.541	0.023	-0.781
Plain disagreement measure	0.740	0.426	-0.041	0.788	0.676	0.561	-0.013	0.809
Ambiguity	0.740	0.426	-0.041	0.787	0.676	0.560	-0.013	0.809
Entropy	0.774	0.431	-0.023	0.803	0.699	0.583	-0.009	0.766

**Table 9.b** Spearman’s rank correlation coefficient for the ensemble diversity and the gain of the ensemble for the **LIBRAS** Dataset. The best values are in bold. The shaded values represent the ensembles in which the measure diversity and the gain of the ensemble are uncorrelated.

	Full Feature Space				Feature Subspace Selected by CFS			
	RandomInit	Bagging	Boosting	BCE	RandomInit	Bagging	Boosting	BCE
Q statistic	-0.585	-0.745	-0.145	-0.554	-0.526	-0.522	0.327	-0.573
Correlation coefficient	-0.592	-0.744	-0.123	-0.556	-0.528	-0.513	0.331	-0.557
Disagreement measure	0.581	0.751	0.043	0.570	0.492	0.575	-0.332	0.529
Double-fault measure	-0.411	-0.479	-0.164	-0.408	-0.267	-0.206	0.237	-0.252
Kappa degree-of- agreement statistic	-0.638	-0.750	0.157	-0.576	-0.259	-0.646	0.088	-0.419
Plain disagreement measure	0.640	0.752	-0.143	0.578	0.261	0.646	-0.102	0.422
Ambiguity	0.640	0.752	-0.143	0.578	0.261	0.646	-0.101	0.422
Entropy	0.581	0.786	0.029	0.627	0.541	0.649	-0.296	0.479

**Table 9.c** Spearman’s rank correlation coefficient for the ensemble diversity and the gain of the ensemble for the **IMBALANCED SEMEION** Dataset. The best values are in bold. The shaded values represent the ensembles in which the measure diversity and the gain of the ensemble are uncorrelated.

	Full Feature Space				Feature Subspace Selected by CFS			
	RandomInit	Bagging	Boosting	BCE	RandomInit	Bagging	Boosting	BCE
Q statistic	-0.571	-0.668	-0.255	-0.535	-0.293	-0.713	-0.080	-0.536
Correlation coefficient	-0.474	-0.626	-0.189	-0.426	-0.378	-0.649	-0.105	-0.514
Disagreement measure	0.596	0.584	0.149	0.562	0.198	0.616	-0.023	0.478
Double-fault measure	0.114	-0.235	-0.031	0.064	-0.272	-0.120	-0.334	-0.184
Kappa degree-of- agreement statistic	-0.520	-0.495	-0.108	-0.547	-0.213	-0.538	0.073	-0.433
Plain disagreement measure	0.524	0.500	0.110	0.550	0.218	0.544	-0.073	0.438
Ambiguity	0.524	0.500	0.110	0.550	0.218	0.543	-0.073	0.438
Entropy	0.600	0.602	0.189	0.563	0.217	0.644	-0.058	0.474

**Table 9.d** Spearman’s rank correlation coefficient for the ensemble diversity and the gain of the ensemble for the **SEMEION** Dataset. The best values are in bold. The shaded values represent the ensembles in which the measure diversity and the gain of the ensemble are uncorrelated.

	Full Feature Space				Feature Subspace Selected by CFS			
	RandomInit	Bagging	Boosting	BCE	RandomInit	Bagging	Boosting	BCE
Q statistic	-0.333	-0.232	-0.023	-0.397	-0.486	-0.575	-0.233	0.156
Correlation coefficient	-0.377	-0.301	-0.009	-0.300	-0.485	-0.572	-0.250	-0.137
Disagreement measure	0.163	0.017	-0.058	0.375	0.320	0.464	-0.007	-0.696
Double-fault measure	-0.297	-0.311	-0.004	-0.046	0.033	-0.200	-0.200	-0.928
Kappa degree-of- agreement statistic	-0.031	0.070	0.058	-0.181	-0.293	-0.292	0.101	0.802
Plain disagreement measure	0.038	-0.060	-0.054	0.192	0.299	0.300	-0.102	-0.798
Ambiguity	0.038	-0.060	-0.054	0.192	0.299	0.300	-0.101	-0.798
Entropy	0.206	0.063	-0.043	0.361	0.285	0.526	0.020	-0.715

**Table 9.e** Spearman’s rank correlation coefficient for the ensemble diversity and the gain of the ensemble for the **ASISTENTUR** Dataset. The best values are in bold. The shaded values represent the ensembles in which the measure diversity and the gain of the ensemble are uncorrelated.

	Full Feature Space				Feature Subspace Selected by CFS			
	RandomInit	Bagging	Boosting	BCE	RandomInit	Bagging	Boosting	BCE
Q statistic	-0.619	-0.455	-0.178	-0.633	-0.035	-0.467	-0.352	-0.460
Correlation coefficient	-0.543	-0.288	-0.235	-0.494	-0.044	-0.394	-0.352	-0.229
Disagreement measure	0.577	0.507	-0.131	0.631	0.041	0.427	0.213	0.573
Double-fault measure	-0.217	-0.001	-0.347	-0.104	-0.062	-0.138	-0.303	0.136
Kappa degree-of- agreement statistic	-0.436	-0.361	0.235	-0.517	-0.084	-0.364	-0.189	-0.508
Plain disagreement measure	0.445	0.363	-0.228	0.521	0.097	0.363	0.195	0.514
Ambiguity	0.445	0.363	-0.228	0.521	0.097	0.363	0.195	0.514
Entropy	0.566	0.459	-0.070	0.605	0.020	0.368	0.238	0.510