

This is an online appendix to the article “Cautious Collective Classification” by McDowell, Gupta, and Aha.

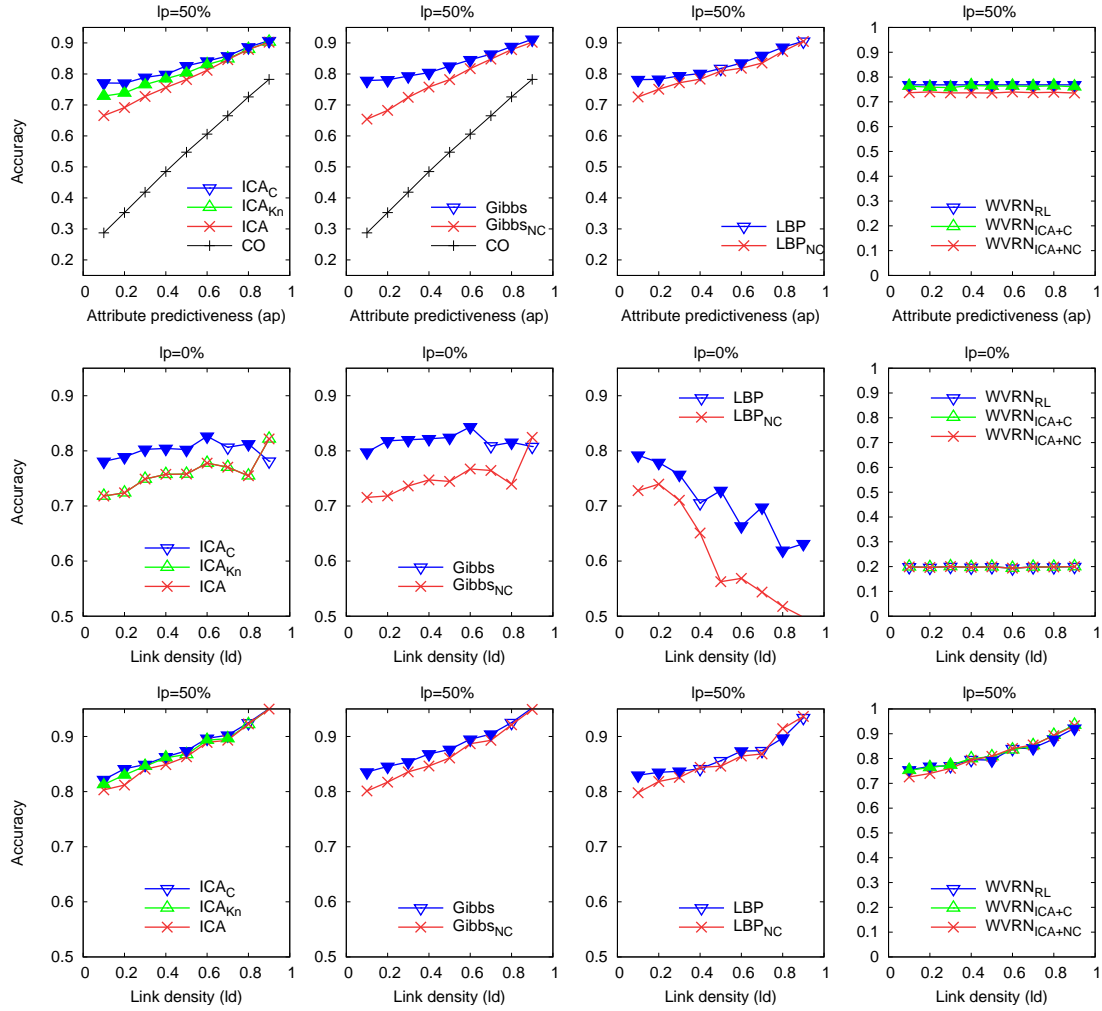


Figure 17: Results for the synthetic data as the attribute predictiveness or link density varies, using the NB local classifier. These graphs are similar to those in Figures 8 and 11 in the body of the article, but are for different values of  $lp$ .

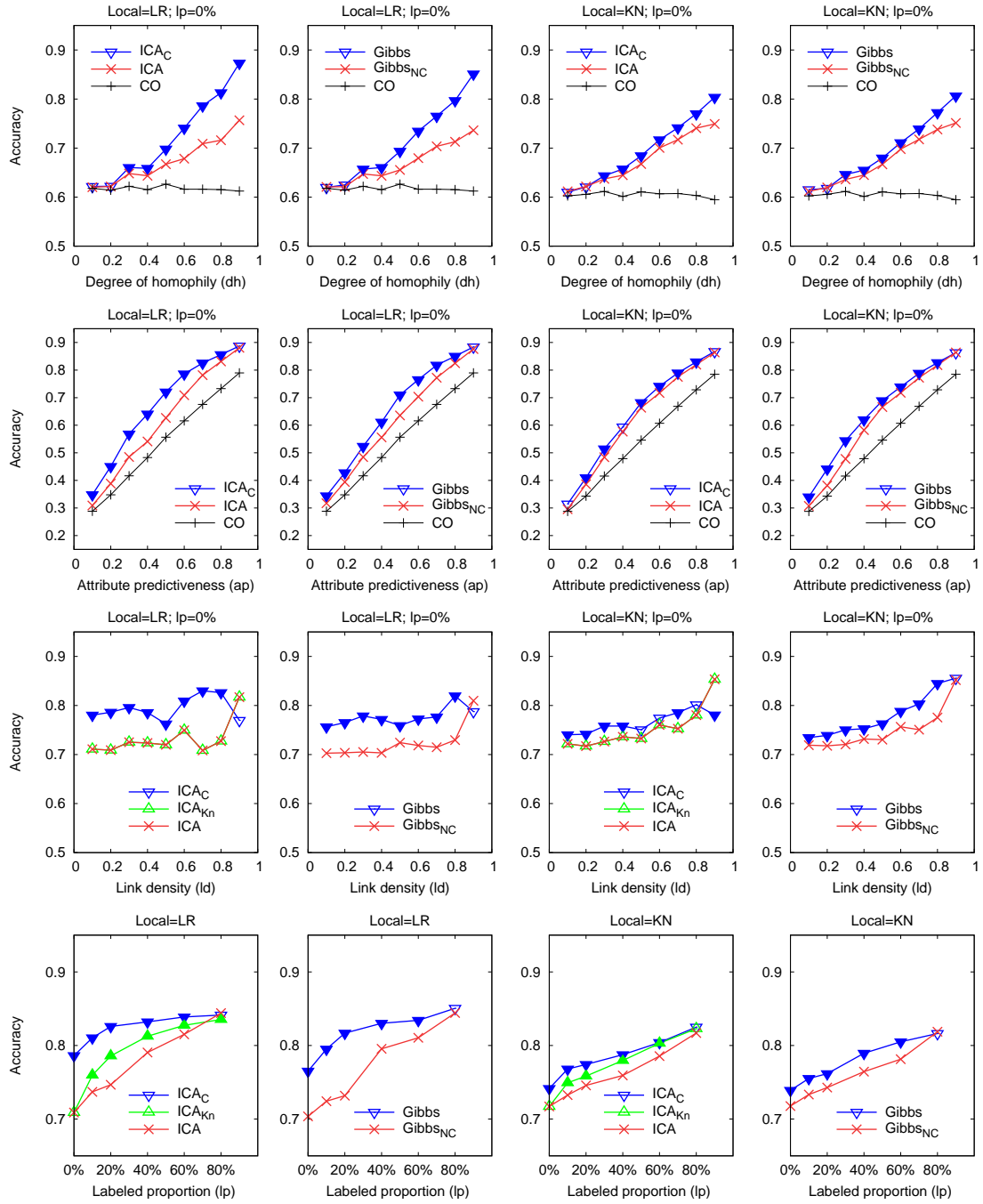


Figure 18: Results for the synthetic data when using the LR or kNN local classifiers, using  $lp=0\%$  by default. Each row varies a different data characteristic.

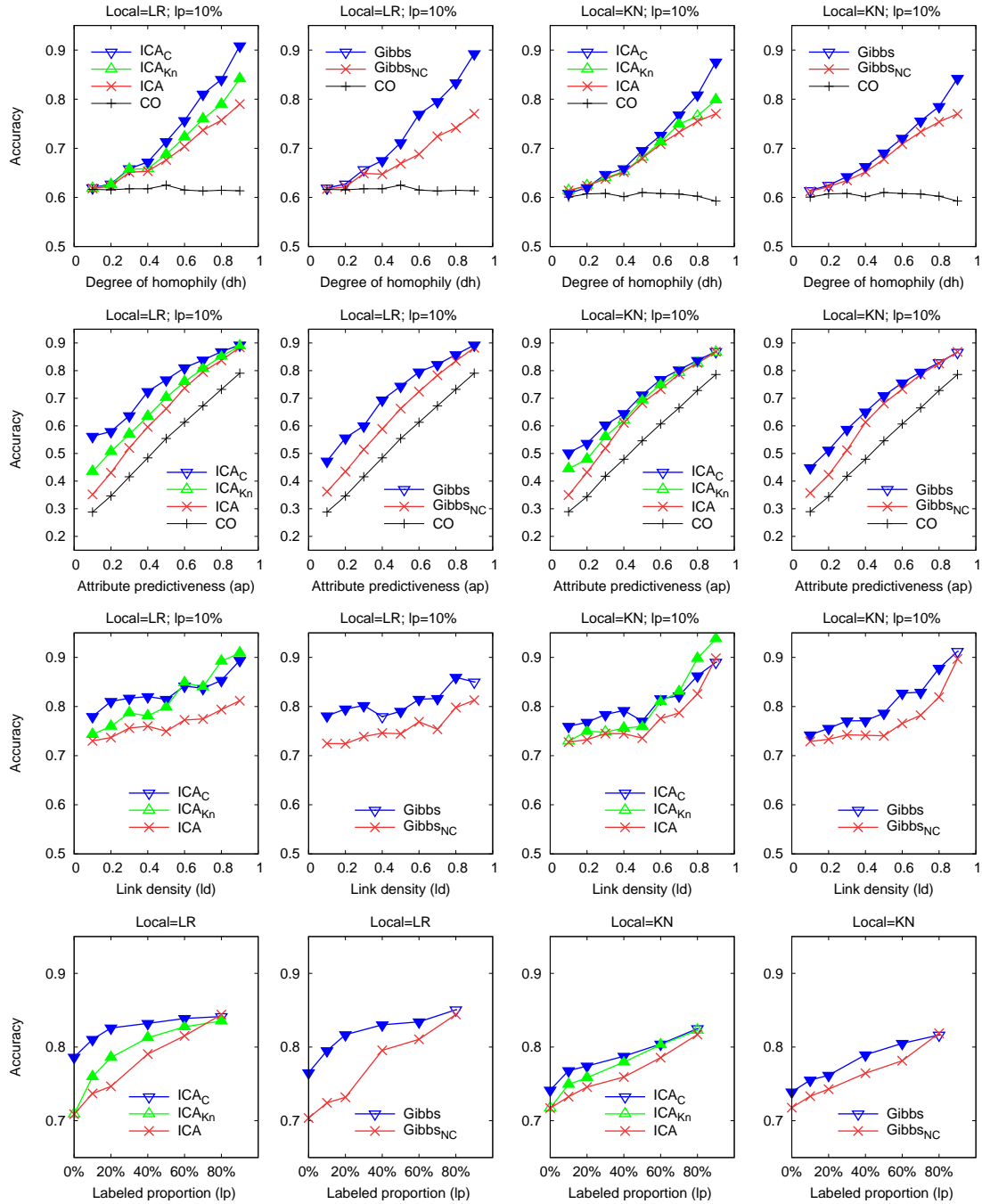


Figure 19: Results for the synthetic data when using the LR or kNN local classifiers, using  $lp=10\%$  by default. Each row varies a different data characteristic.

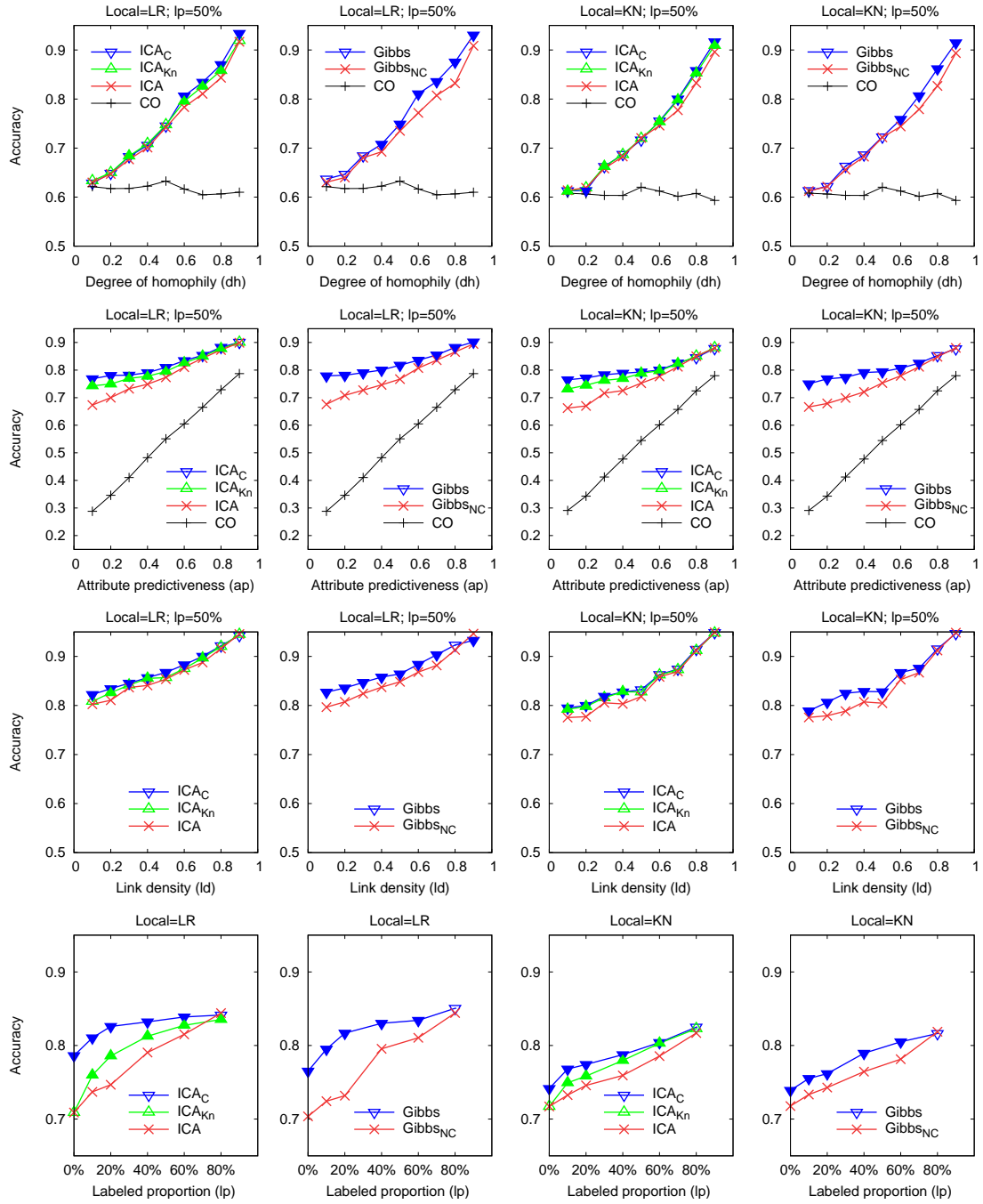


Figure 20: Results for the synthetic data when using the LR or kNN local classifiers, using  $lp=50\%$  by default. Each row varies a different data characteristic.

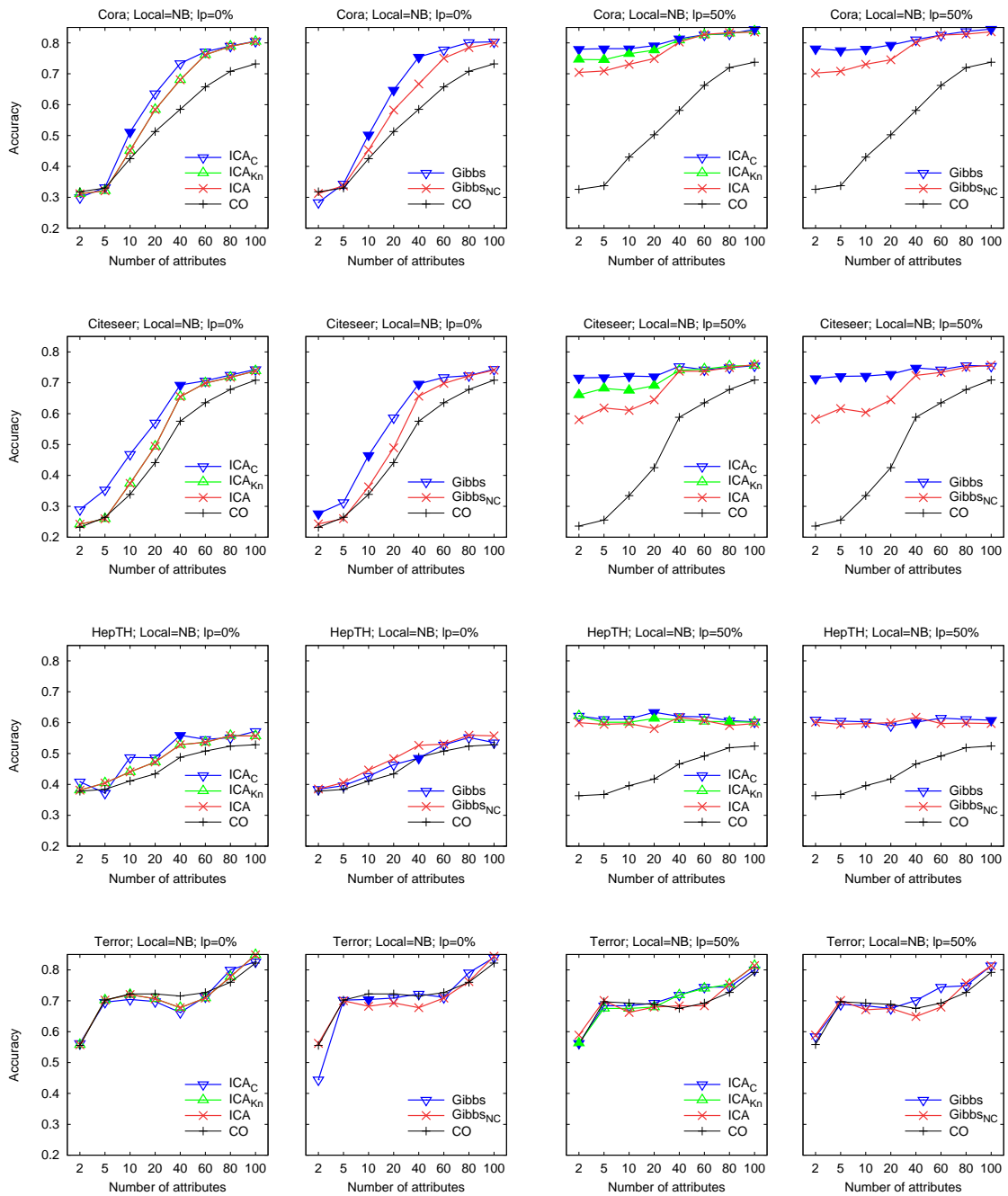


Figure 21: Results for four of the real data sets as the number of attributes is varied, using the NB local classifier. These results are like Figure 9, but for different  $lp$  values ( $lp=0\%$  or  $50\%$ ).

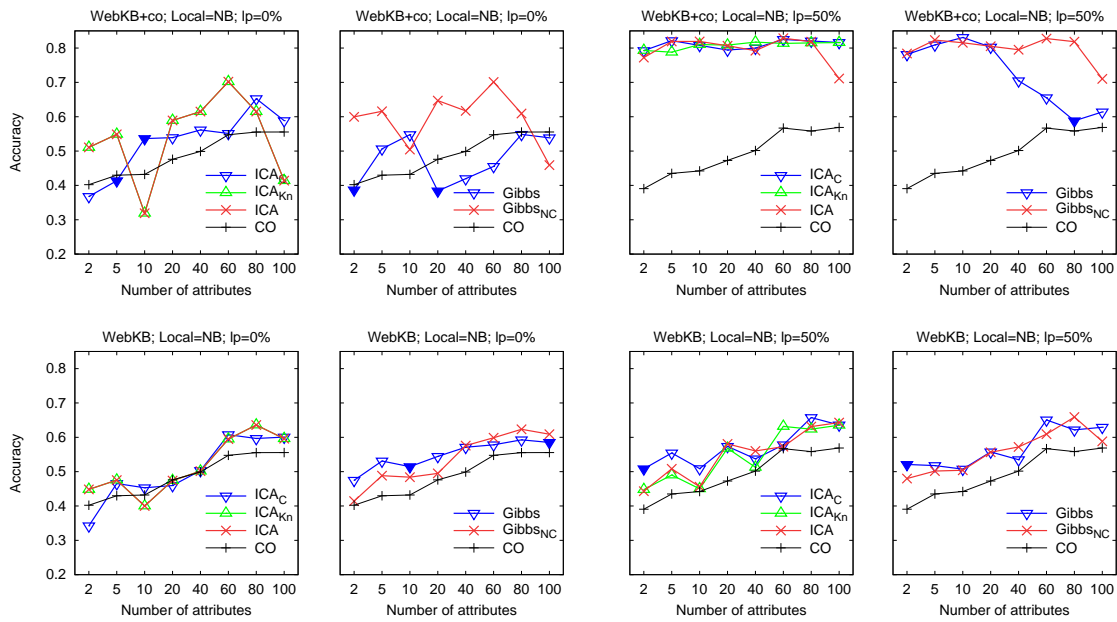


Figure 22: Results for the WebKB data sets as the number of attributes is varied, using the NB local classifier. These results are like Figure 10, but for different  $lp$  values ( $lp=0\%$  or  $50\%$ ).

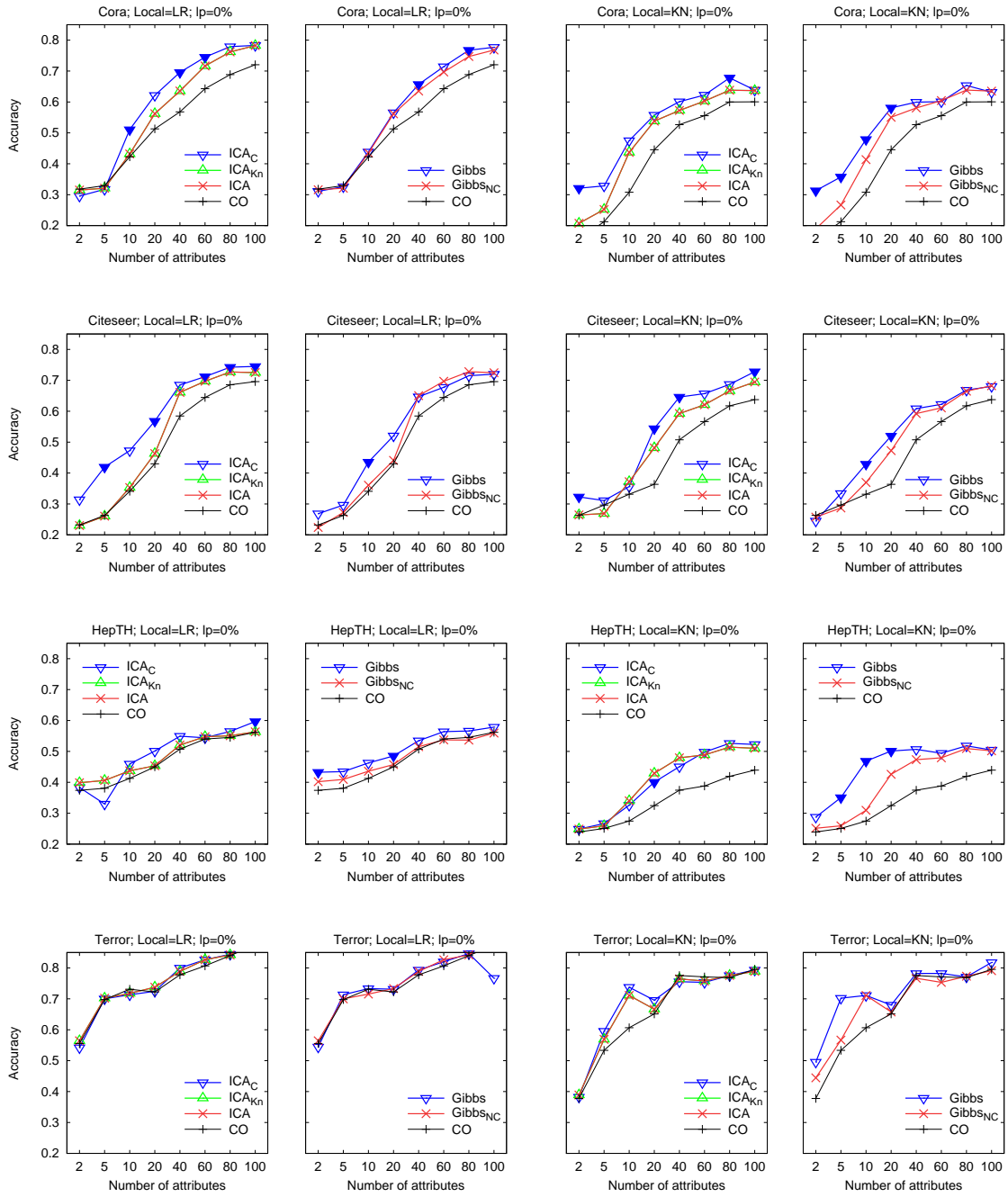


Figure 23: Results for four of the real data sets, using  $lp=0\%$ , as the number of attributes is varied, using the LR (at left) or kNN (at right) local classifier.

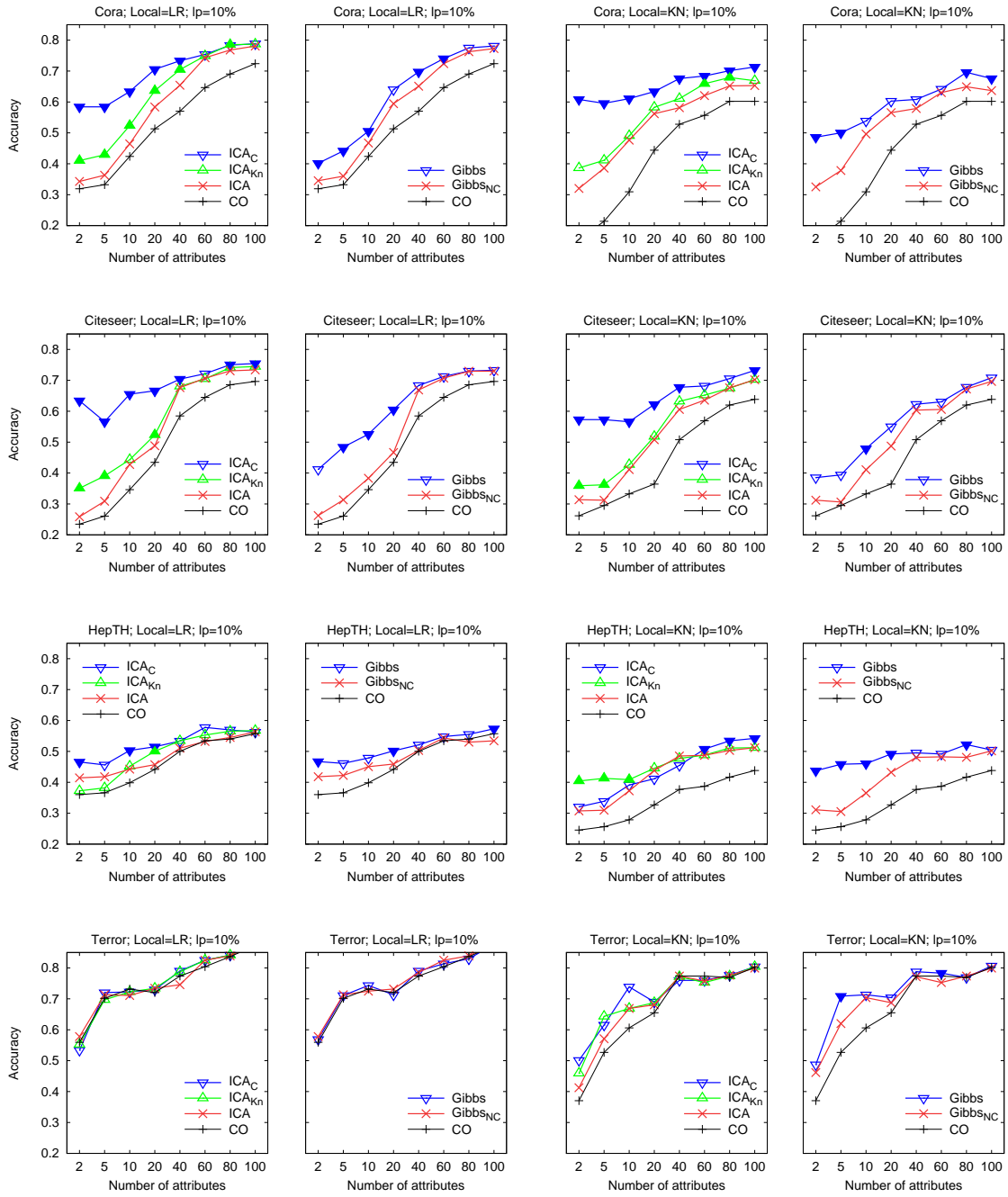


Figure 24: Results for four of the real data sets, using  $lp=10\%$ , as the number of attributes is varied, using the LR (at left) or kNN (at right) local classifier.

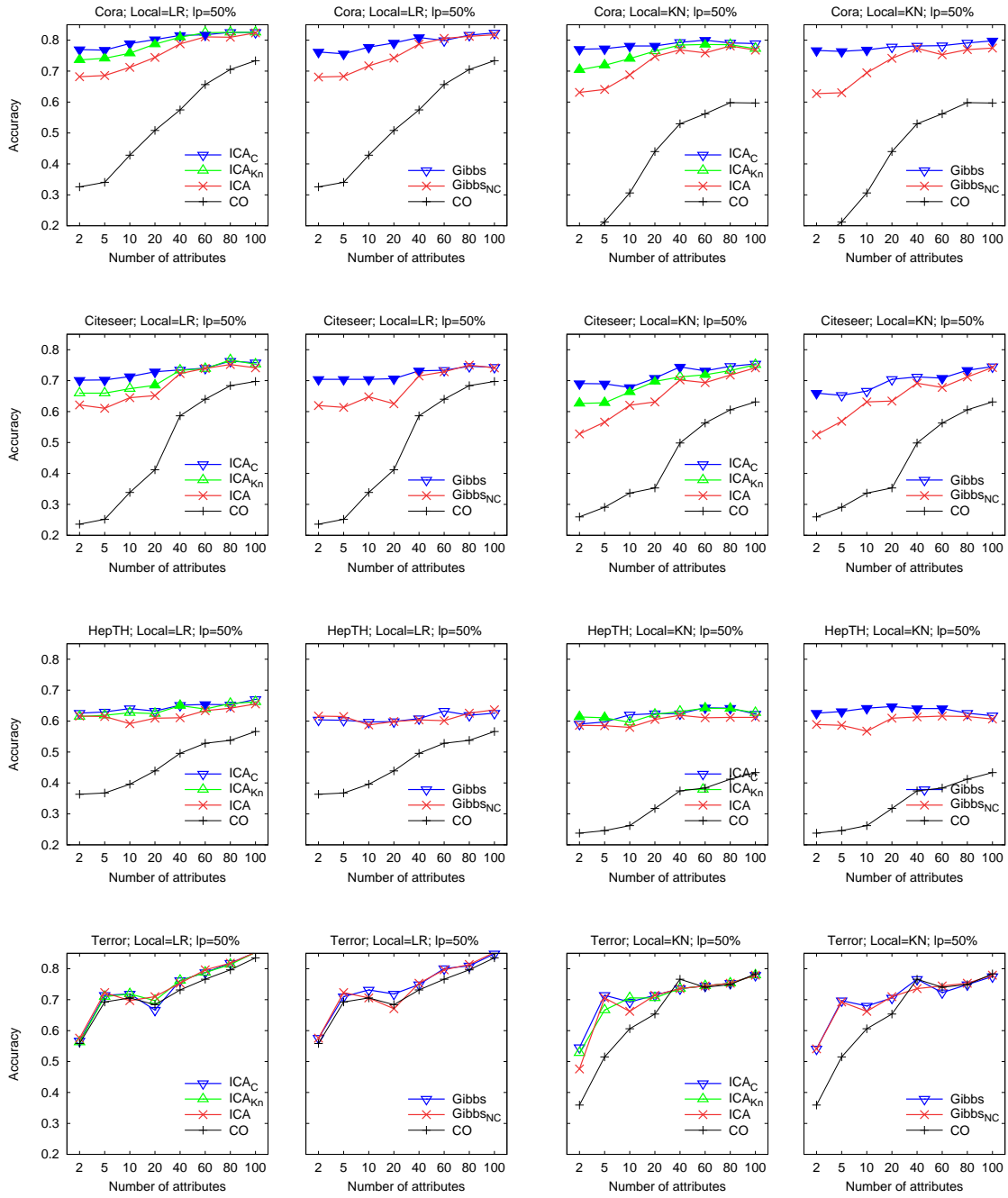


Figure 25: Results for four of the real data sets, using  $lp=50\%$ , as the number of attributes is varied, using the LR (at left) or kNN (at right) local classifier.

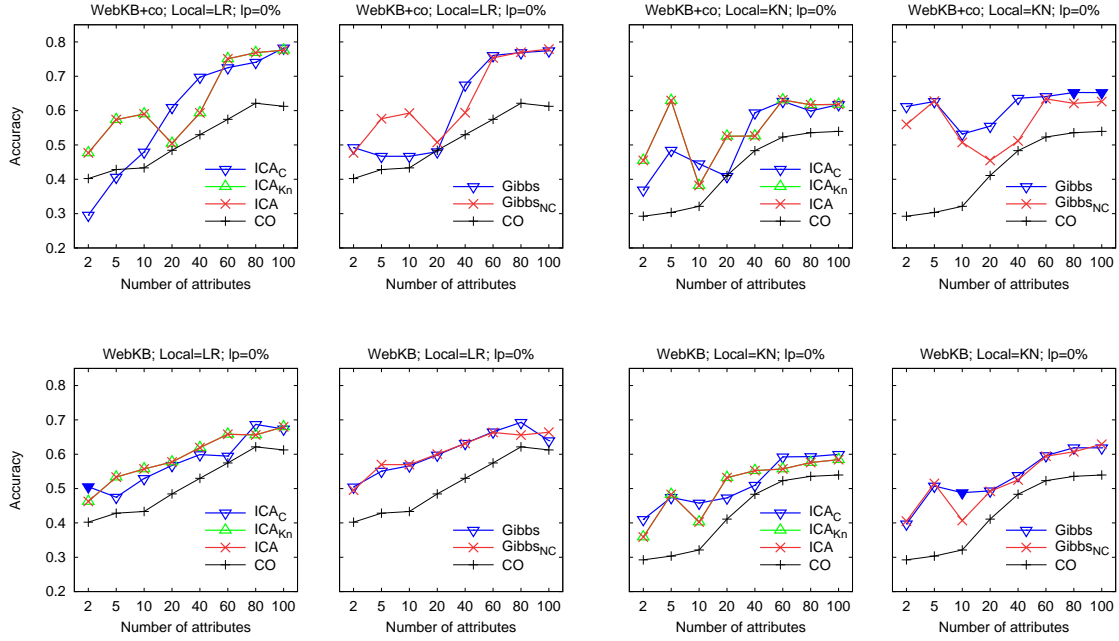


Figure 26: Results for the WebKB data sets, using  $lp=0\%$ , as the number of attributes is varied, using the LR (at left) or kNN (at right) local classifier.

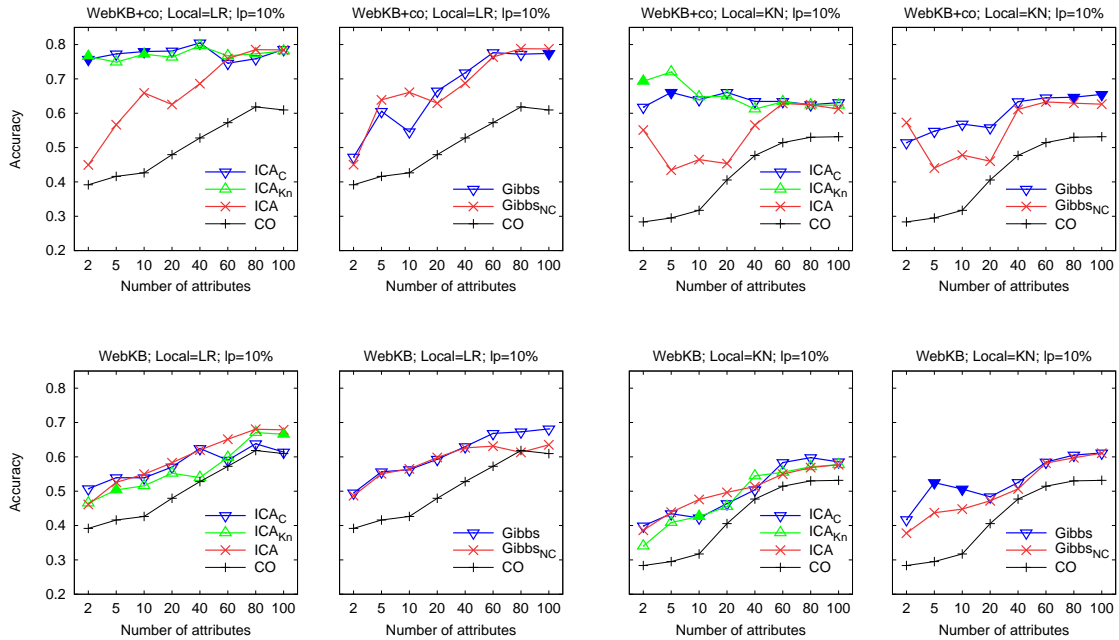


Figure 27: Results for the WebKB data sets, using  $lp=10\%$ , as the number of attributes is varied, using the LR (at left) or kNN (at right) local classifier.

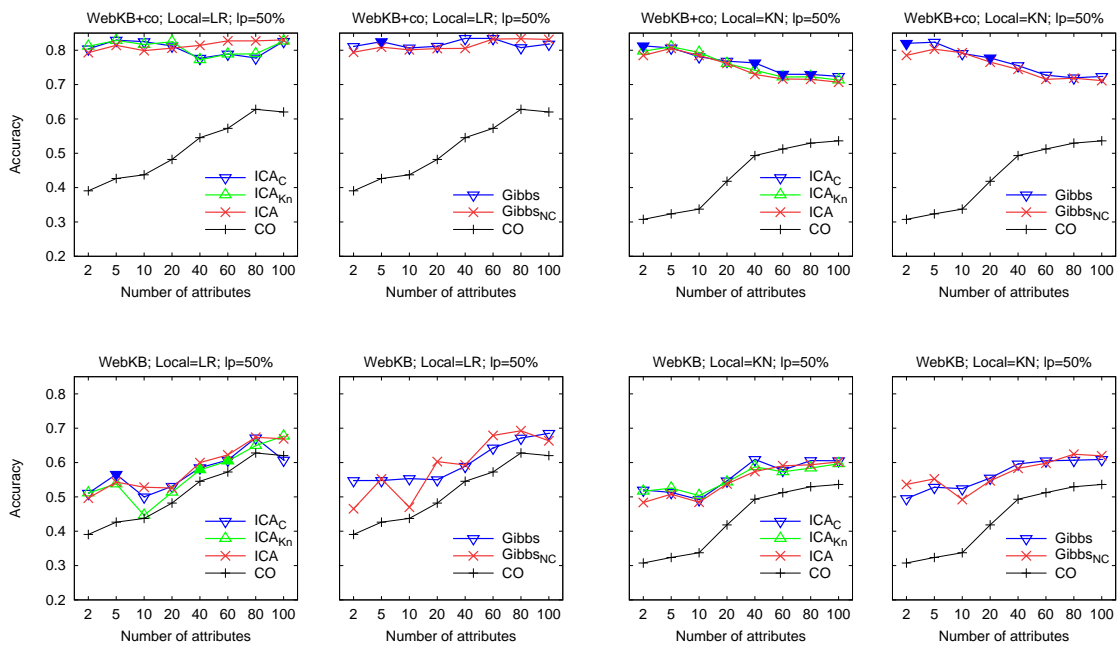


Figure 28: Results for the WebKB data sets, using  $lp=50\%$ , as the number of attributes is varied, using the LR (at left) or kNN (at right) local classifier.