

The figure is a box plot titled 'Number of features selected by classifier'. The y-axis is labeled 'features' and ranges from 4 to 10. The x-axis is labeled 'dataset' and lists 12 datasets: blood-transfusion, iris, diabetes, pollen, kc2, pc3, madelon, vehicle, steel, and japanese-vowels. For each dataset, there are up to 10 box plots, one for each classifier. The classifiers are: IWLS (blue), Adam (orange), SGD (green), Linear Discriminant Analysis (red), Quadratic Discriminant Analysis (purple), Decision Tree Classifier (brown), Random Forest Classifier (pink), IWLS Interactions (grey), Adam Interactions (olive), and SGD Interactions (teal). Outliers are represented by open circles. The plot shows that the number of features selected varies significantly between datasets and classifiers. For example, in the 'iris' dataset, the Decision Tree Classifier selects a high number of features (around 9.5), while in the 'pollen' dataset, the Linear Discriminant Analysis classifier selects a low number of features (around 4.5).

- classifier