1 A good CASP9 contact prediction example

A good CASP9 contact prediction example that LRcon outperforms other predictors is shown in Figure 1. The true contact map and the predicted contact maps (top 0.2L predictions) at sequence separation $s \geq 24$ of five best CASP9 predictors and LRcon are shown in Figure 1 as well. From the figure, we can see that the five best CASP9 predictors correctly identify most of the contacts (at top 0.2L predictors) for this target. LRcon further improves the predictions of these predictors, yielding the highest accuracy (0.904), coverage (0.155), and F-measure (0.265).

[Figure 1 about here.]

2 Results on the CASP9 dataset

2.1 Results for the top 0.2L predictions

[Figure 2 about here.]
Figure 1: A good contact prediction example. The top panel is a cartoon visualization of the 3D structure of the CASP9 target T0532. The lower panels are the true contact map and predicted contact maps at sequence separation $s \geq 24$. The blue points in the upper triangles represent the true contact map. The red points in the lower triangles represent the top $0.2L$ predictions of five CASP9 predictors and LRcon.
Figure 2: Histogram of the accuracies, coverage and F-measures for the top 0.2L predictions of LRcon and other predictors on the CASP9 dataset D80.