

12 March 2015

The figures below show the results of different experiments on v8-FaceDetection44 using Additive BO algorithm.

The experiments on the first row use a guessRange of 7 to set the domain of the upperBound. While the experiments on the second row use a guessRange of 5.

The figures within the same row use the same experiment parameters except the initialization points.

As the guessRange increases and numDiRectEval decreases, the model with $d = 44$ does not perform as well as models with $d < 44$.

During some experiments, models with $d = 8$ or $d = 11$ outperform others. This agrees with our guess that when optimization becomes difficult or problem domain becomes large, additive model will have advantages over the non-additive model.

