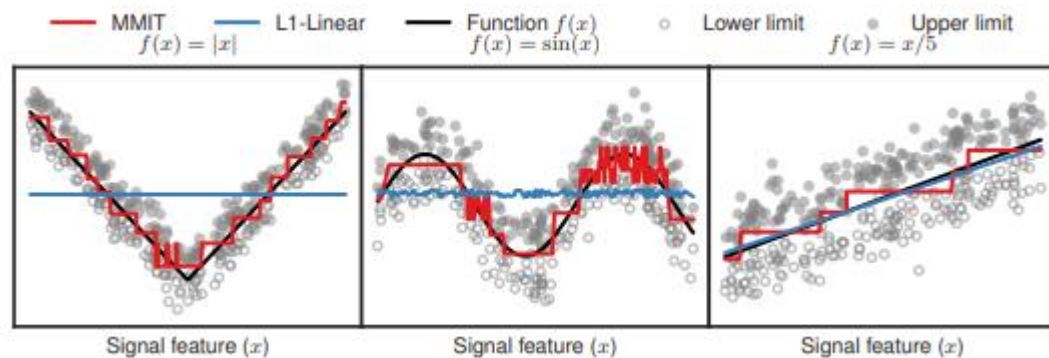
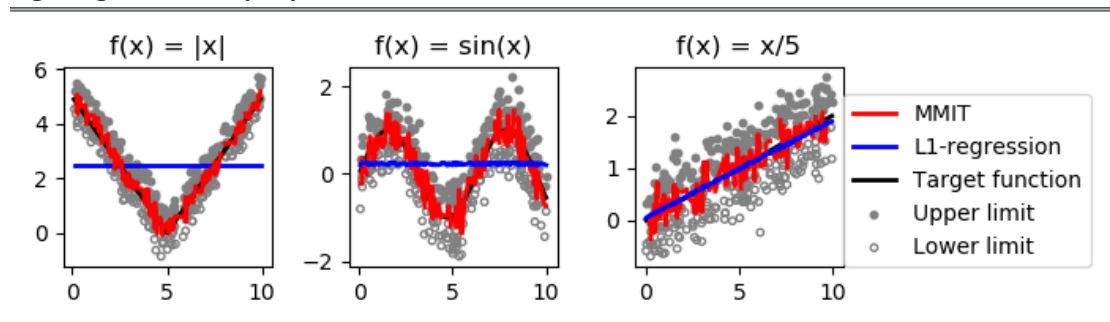


- Original figure, and a citation to where the figure came from
Citation: Alexandre Drouin, Toby Dylan Hocking, Francois Laviolette, "Maximum Margin Interval Tree", Figure 4
Original figure



- Figure generated by my code



- Do all/most of the details of the two figures match?
Most of these two figures are similar. However, the red line in my figure seems overfitting.
- Paragraph explaining what software/libraries you used, and what you implemented from scratch.
In this project, I use python to deal with MMIT and generate figure, and I use R to generate L1-regression parameters. For python, I use three packages, I use pandas for dealing with data, numpy for calculating, and matplotlib.pyplot for drawing figure. In R, I implement R package penalty Learning and I use the IntervalRegressionCV function in it. What's more I also use future, future.apply and ditectlabels as necessary tool to run penalty Learning package.
- Issues you had reproducing the figure.
There are two issues of this figure, first, the original program uses dynamic programming, but I do not use it. On the other hand, the value of margin in this figure is not generated from CV, I think it is the main reason that make the figure overfit.