Property Elicitation I

Reading Questions for Monday, February 8, 2016

We ask you to submit comments on the following papers by midnight Tuesday February 2:

- Making and Evaluating Point Forecasts. T. Gneiting. Journal of the American Statistical Association, Vol. 106, No. 494, June 2011.

- Eliciting Properties of Probability Distributions. N. Lambert, D.M. Pennock and Y. Shoham, ACM EC'08.

Your comments should include both answers to the specific reading questions and generic response about the papers. You are welcome to include any questions you have about the papers in your comments. After submitting your own comments, you'll be able to see others' submitted comments. You can comment on others' submissions and answer raised questions on Canvas. Discussion on Canvas is strongly encouraged.

1   Reading Questions

1. Describe a scenario in which property elicitation would be appropriate (i.e. a single property of the distribution is all that the designer needs). What is a scenario in which the full distribution is desired?

2. Explain how you would elicit the variance of a distribution without explicitly querying the expert about the variance. What formula for the variance makes this possible? What is the variances k-elicitability?

3. Briefly describe how the choice of scoring function can impact the information elicited from experts.

2   Generic Response

Respond to the papers following the guidelines in the course syllabus (under "Submit Comments and Presenting Papers").