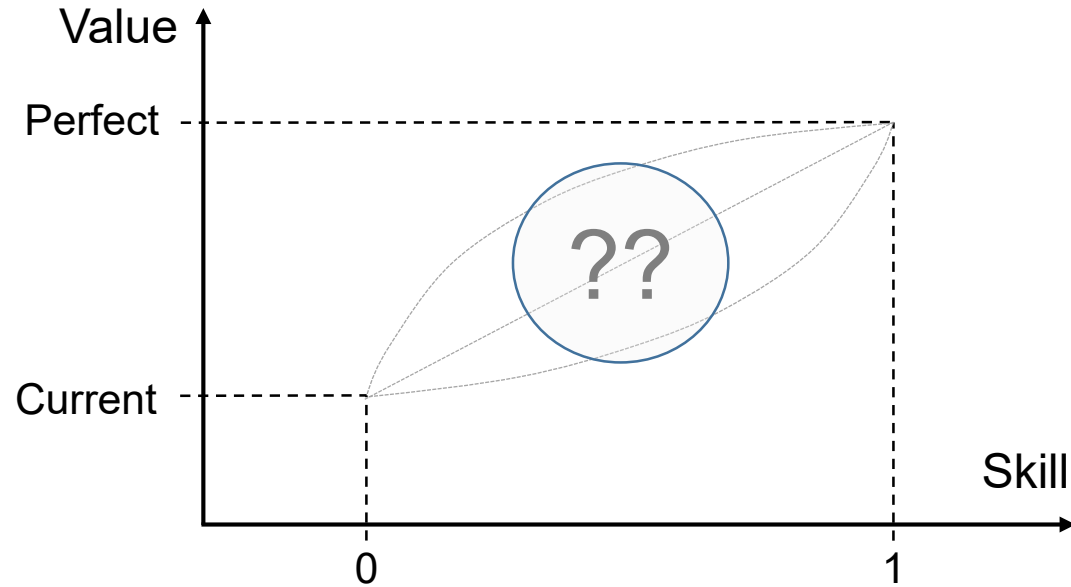


Generating families of synthetic forecasts of different skills from an existing forecast product

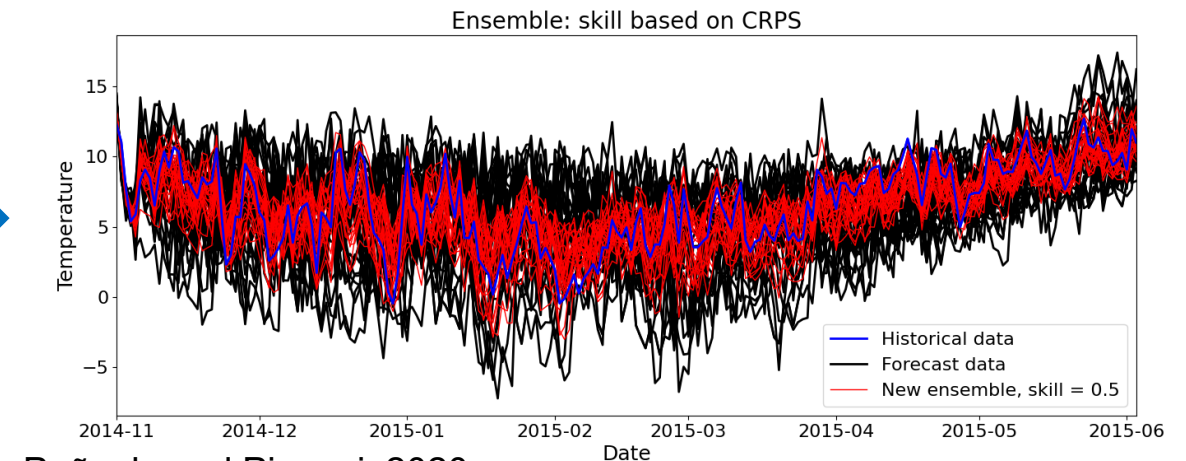
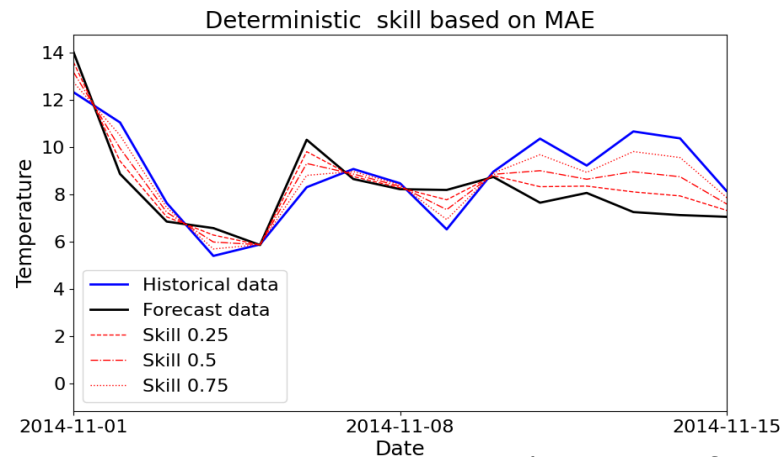
(1) Goal: systematic exploration of skill vs. value



(2) Method: one parameter family

- 1) Start from (past) forecast and observations.
- 2) Rescale error linearly (factor k).
 - *Keep error correlation structure*
- 3) Find relationship between scaling factor and desired skill (based on MAE, MSE for deterministic forecasts, CRPS for ensembles)
- 4) Generate synthetic forecasts!

(3) Example application*



* Example from iRONS toolbox, Peñuela and Pianosi, 2020