Abstract
Ignorance is not probabilistic, as we illustrate with a riddle.

We then discuss non-probabilistic info-gap models of uncertainty, which can be used to quantify severe lack of information. Info-gap models can be combined with fragmentary probabilistic information.

We then consider the strategy of robust-satisficing: choosing an action or policy which attempts to achieve adequate outcomes most reliably. We discuss the trade-off between quality of the outcome and confidence in attaining that outcome. High aspirations have low robustness to uncertainty; maximal aspirations have zero robustness.

Robust-satisficing is very different from optimization, which is the choice of an action to maximize outcomes. From our discussion of trade-offs we know that optimization is equivalent to minimizing robustness against uncertainty. Hence optimization is an infeasible policy-selection strategy when faced with severe uncertainty.