

1 Supplementary materials

This document provides supplementary materials for the paper entitled to “Many-objective robust decision-making approach to a joint problem under deep uncertainty in defence”.

1.1 Supplementary to Section 5.1. *Many-objective robust decision-making*

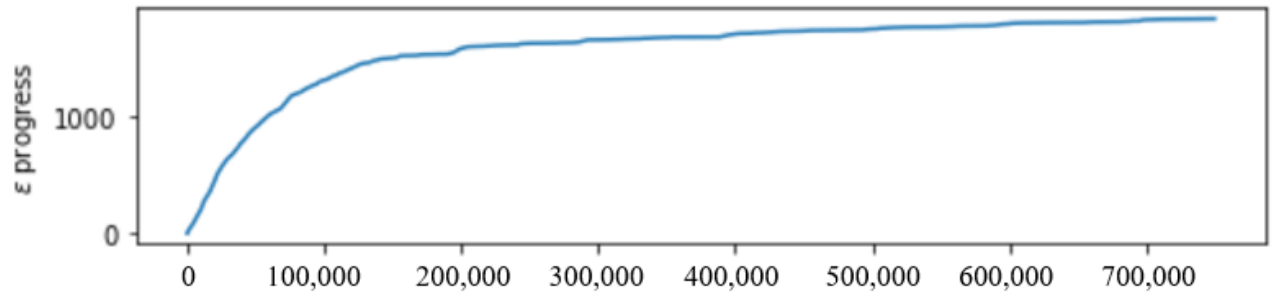


Figure 1: The convergence plot showing the ϵ progress, an evolution of archive size.

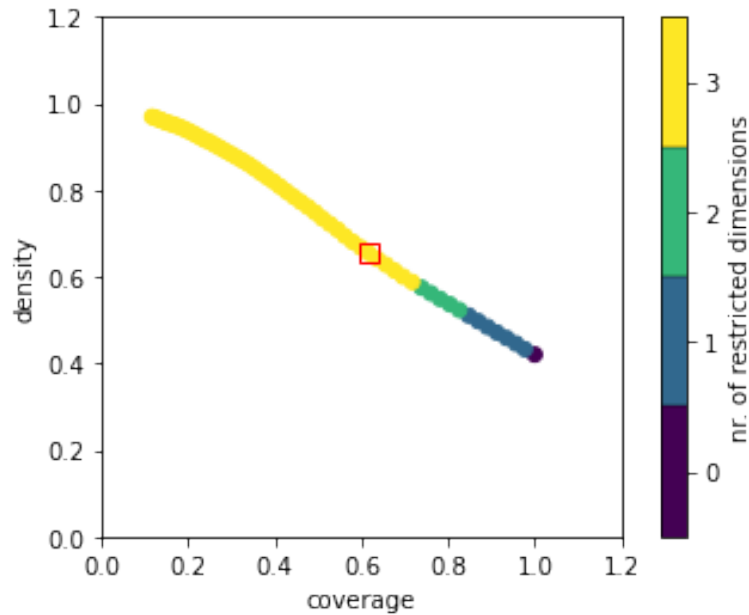


Figure 2: The obtained tradeoff curve (or peeling trajectory) from scenario discovery for the computational experiments with optimal strategies found during the search phase in many-objective robust decision-making.

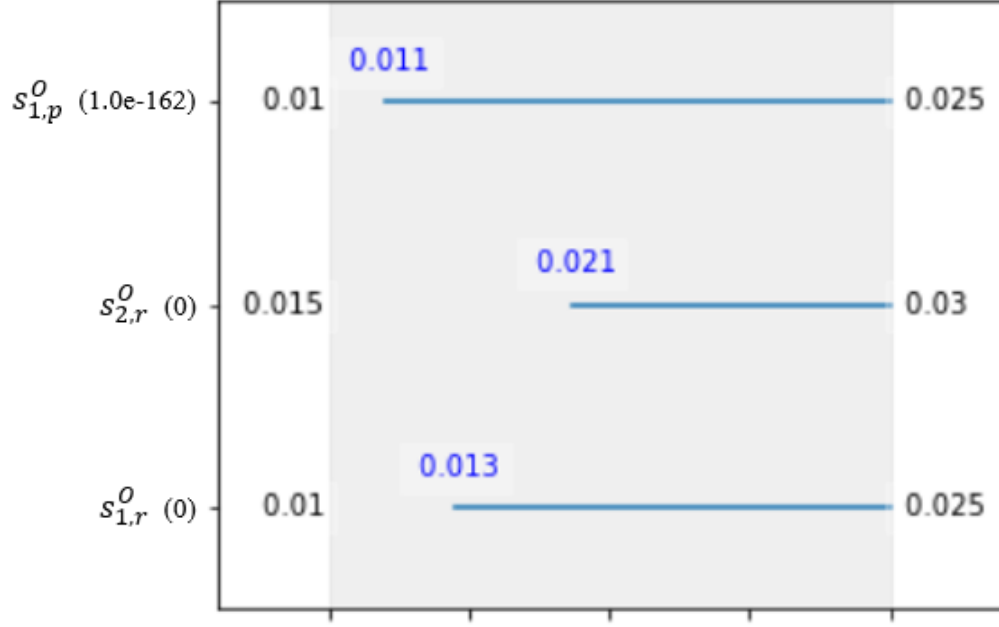


Figure 3: The scenario box corresponding to the highlighted point in Figure 2. This includes the critical uncertainties for explaining the unsatisfactory performance with a line including the critical range for each uncertainty, a qp -value to show the statistical significance of each uncertainty and the feasible ranges of uncertainties on two sides of the box.

1.2 Supplementary to Section 5.2. *Many-objective robust optimization*

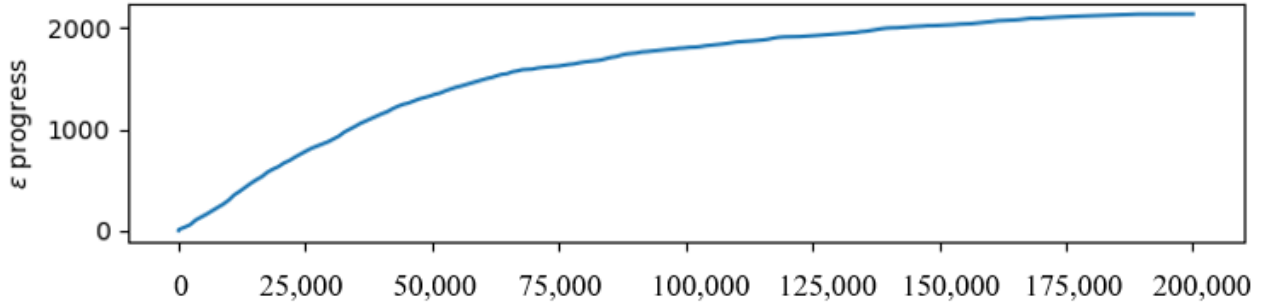


Figure 4: The convergence plot showing the ϵ progress, that is the evolution of archive size.