

Figure 1 is a scatter plot showing the relationship between the probability weighting function parameter α (x-axis) and the risk seeking/risk averse index (y-axis). The x-axis ranges from 0.4 to 1.6, and the y-axis ranges from -0.5 to 0.5. A solid black curve represents the theoretical relationship. The plot is divided into four quadrants by dashed lines at $\alpha = 1.0$ and index = 0. The bottom-left quadrant is labeled "low ++ / high --" and the bottom-right quadrant is labeled "low -- / high ++". Data points are categorized by selection rate (x), mutation rate (red dots), and mixture rate (blue diamonds). The plot shows that for $\alpha < 1.0$, the risk seeking/risk averse index is generally negative (risk seeking), while for $\alpha > 1.0$, it is generally positive (risk averse). The data points are clustered around the theoretical curve, with some outliers in the bottom-right quadrant.

risk averse

risk seeking

low ++ / high --

low -- / high ++

- × selection rate
- mutation rate
- ◆ mixture rate