

Additional file 5

Plain-language glossary for practitioners

This file accompanies the manuscript “Value of Information with Imprecise Probabilities for Decision Modeling” and gives plain-language definitions of the main terms used in the paper.

Table 1: Plain-language glossary for IP-VOI analyses.

Term	Meaning in this paper
Probabilistic sensitivity analysis	Simulation from one joint distribution for model inputs.
Imprecise probability	A set of probability measures rather than one precise probability measure.
Admissible probability-measure set	The set of probability measures compatible with current evidence and assumptions.
P-box	A lower and upper cumulative distribution function that bounds plausible distributions.
PBA	Probability bounds analysis; computation with p-boxes and related uncertain numbers.
EVPI interval	The range of standard EVPI values over all admissible probability measures.
EVPPI interval	The range of standard EVPPI values for a parameter group over all admissible probability measures.
EVSI interval	The range of standard EVSI values for a study design over all admissible probability measures.
Input narrowing	Replacing an imprecise input by a narrower or more precise input to represent learning.
Outer search	Search over admissible probability measures.
Standard VOI calculation	EVPI, EVPPI, or EVSI calculation for one fixed probability measure.
Robustly worthwhile study	A study whose lower ENBS endpoint is greater than zero.
Assumption-dependent study	A study whose ENBS interval contains zero.