

Possible usages of ProMCDA	Specifications	Notes
Simple MCDA No sensitivity nor robustness analysis is performed.	The specific pair normalization / aggregation to be used for the evaluation of the alternatives.	For a fully controlled MCDA.
Sensitivity analysis Focus is on the role of the normalization and aggregation functions.	All normalization and aggregation pairs are used for the evaluation of the alternatives.	Each pair normalization/aggregation will produce different scores for every alternative. The sensitivity analysis can be associated with the robustness analysis due to the weights or the indicators.
Robustness analysis of one weight at time Focus is on the role of one indicator and its relative weight at time.	One single weight at time is sampled from the uniform distribution [0,1].	This run can help investigate the importance of each indicator for the final scores. Average results are reported a number-of-indicator times. <i>This robustness analysis cannot be used together with the robustness analysis associated with the indicators.</i>
Robustness analysis of all weights Focus is on the role of the weights.	All weights are sampled from the uniform distribution [0,1].	This run can help understanding the overall impact of the uncertainty due to the weights. <i>This robustness analysis cannot be used together with the robustness analysis associated with the indicators.</i>
Robustness analysis of the indicators Focus is on the role of the uncertainty of the indicators.	All indicators, whose values are distributed as a non-exact pdf, are randomly sampled. ProMCDA needs N-values for each indicator per alternative to build N random input-matrices.	This run let the user analyse the impact of the uncertainty on the indicators for the final scores. <i>This robustness analysis cannot be used together with the robustness analysis associated to the weights.</i>