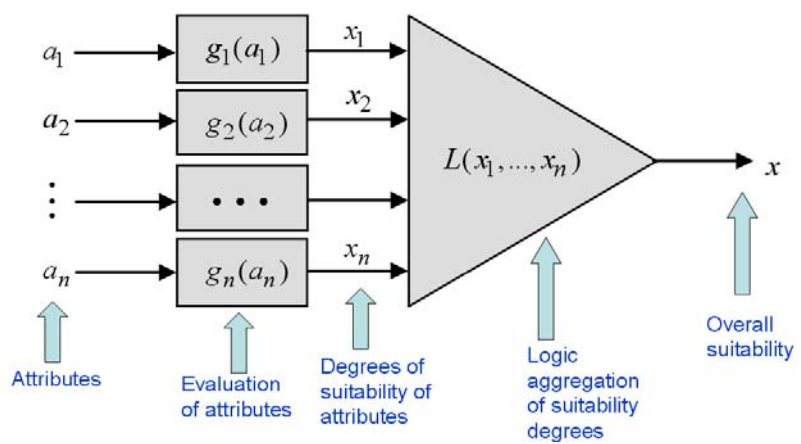
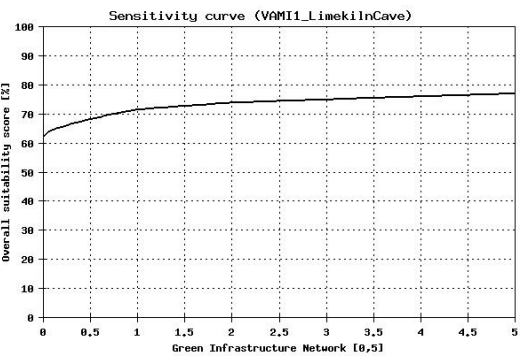
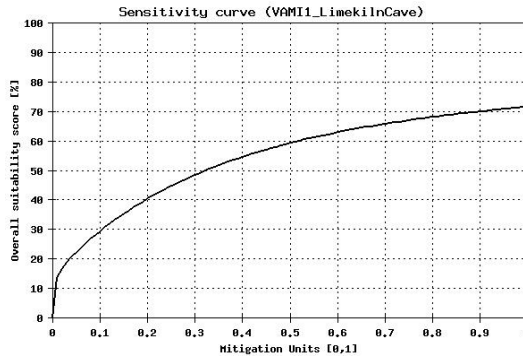
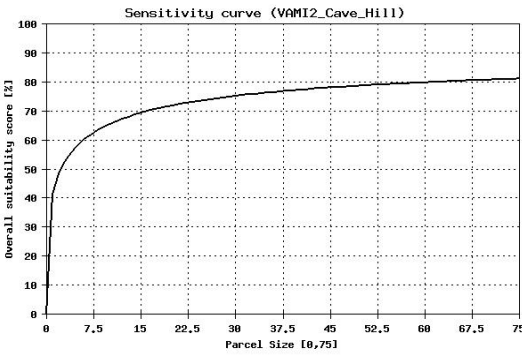
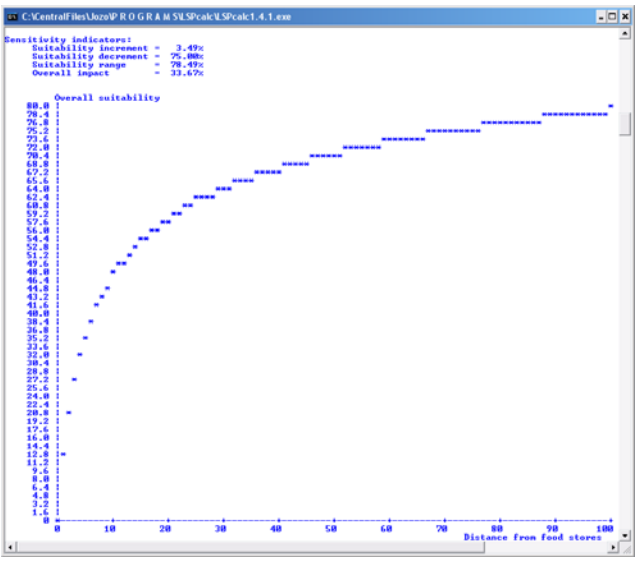


LSPsan is a standalone programming system for sensitivity analysis of complex LSP criteria. The goal of sensitivity analysis is to investigate how various inputs and parameters affect the results of evaluation. Sensitivity analysis is an auxiliary process that contributes to the quality of decision models and the reliability of evaluation. LSPsan generates tables with various sensitivity coefficients and sensitivity curves that evaluators use to design justifiable evaluation criteria.



- Preference increment: $\delta_i^+ = 100(y_i^{(max)} - y_i^{(0)})$ [%]
- Preference decrement: $\delta_i^- = 100(y_i^{(0)} - y_i^{(min)})$ [%]
- Absolute influence range: $\rho_i = 100(y_i^{(max)} - y_i^{(min)})$ [%]
- Relative influence range: $\rho_{ri} = 100 \frac{y_i^{(max)} - y_i^{(min)}}{y_i^{(max)}}$ [%]
- Relative position of output: $\pi_i = 100 \frac{y_i^{(0)} - y_i^{(min)}}{y_i^{(max)} - y_i^{(min)}}$ [%]
- Overall impact: $\gamma_i = 200 \frac{y_i^{(max)} - \int_0^1 f_i(x_i) dx_i}{y_i^{(max)}}$ [%]
- Relative coefficient of impact: $\gamma_{ri} = 200 \frac{y_i^{(max)} - \int_0^1 f_i(x_i) dx_i}{y_i^{(max)} - y_i^{(min)}}$ [%]



PROJECT location

SUMMARY OF SENSITIVITY ANALYSIS RESULTS FOR DEFAULT SUITABILITY OF 75.0%:

No.	Block	Increment	Decrement	Range	Impact	Attribute
0	1111	4.5%	1.7%	6.3%	12.9%	Distance from train stations
1	1112	3.8%	1.0%	4.8%	10.2%	Distance from bus stations
2	112	3.5%	75.0%	78.5%	33.7%	Distance from food stores
3	121	7.0%	22.4%	29.4%	36.8%	Distance from parks
4	122	4.1%	22.4%	26.5%	25.7%	Distance from restaurants
5	123	2.7%	21.8%	24.5%	18.5%	Distance from libraries
6	111	4.5%	1.7%	6.3%	12.9%	Distance from train stations
7	1112	3.8%	1.0%	4.8%	10.2%	Distance from bus stations

SENSITIVITY ANALYSIS RESULTS SORTED ACCORDING TO DECREASING RANGE

Rank	Block	Increment	Decrement	Range	Impact	Attribute
1	112	3.5%	75.0%	78.5%	33.7%	Distance from food stores
2	121	7.0%	22.4%	29.4%	36.8%	Distance from parks
3	122	4.1%	22.4%	26.5%	25.7%	Distance from restaurants
4	123	2.7%	21.8%	24.5%	18.5%	Distance from libraries
5	1111	4.5%	1.7%	6.3%	12.9%	Distance from train stations
6	1112	3.8%	1.0%	4.8%	10.2%	Distance from bus stations

SENSITIVITY ANALYSIS RESULTS SORTED ACCORDING TO DECREASING IMPACT

Rank	Block	Increment	Decrement	Range	Impact	Attribute
1	121	7.0%	22.4%	29.4%	36.8%	Distance from parks
2	112	3.5%	75.0%	78.5%	33.7%	Distance from food stores
3	122	4.1%	22.4%	26.5%	25.7%	Distance from restaurants
4	123	2.7%	21.8%	24.5%	18.5%	Distance from libraries
5	1111	4.5%	1.7%	6.3%	12.9%	Distance from train stations
6	1112	3.8%	1.0%	4.8%	10.2%	Distance from bus stations

Range ratio = 16.4 Impact ratio = 3.6

You can now repeat the whole sensitivity analysis using another value of default suitability, different from the previous value (75.0%). Enter a new value of default suitability or press Enter to continue: 90