

# Sensitivity Analysis

When opening this window, The *Model Editor* and the *Parameters Editor* windows become in read-only mode.

## *Left frames and buttons*

**Normal stakes, ..., number of steps, number of runs:** as in the Simulation window.

**Random / Regular parameter values:** determines whether the values of the varying parameters are to be chosen randomly or uniformly inside its range of value.

**number of experiments:** for each of the experiments, a <number of runs> simulations will be launched with new values for the *varying parameters*

**Open previous:** allow to load the results of a previous sensitivity analysis by selecting the <name of the model>-SensitivityInitialParameters.xls file, within the directory containing the sensitivity results. *It don't work, but each simulation may be opened in the Simulation window*

**Run:** launch the sensitivity analysis. You have to specify the directory where a new directory <name of the model>\_sensitivity\_<dateHour> will be created; simulation results of each experiment will be stored in a sub directory of this.

**View results:** access to the display window, cf. below.

**Save report:** generate a file (name of the model)\_SensiSynthesis.rtf

**Initial State, Actors' Parameters, Description** panels: the same as the Simulation window.

## *Experiences parameters* panel

The --> and <-- buttons allow you to put in the *varying parameters* frame the items whose value will vary from one experiment to another; then you have to fix the min and max values of the range of variation.

## available parameters box

**Simu parameters** Option: select in the *Actors* frame whether the variable parameter concerns the *whole* actors or a single one, and in the *Simulation Parameters* frame the simulation parameter which must vary.

**Stakes** Option: select (in the *Actors* frame) the actor, and (in the *Stakes* frame) the relation whose stake is varying

**Solidarities** Option: select (in the *Actors* frame) the actor whose solidarity is varying for the actor selected in the *Solidarities* frame

## View results window

The x-axis corresponds to experiments, sorted by their rank (*num experience*) or by the value of one of the variable parameters.

The y-axis values correspond, for each experiment, to the mean value over the simulation runs of this experiment.

**Note:** to get the detail of one experiment, use the *open previous simulation* button of the Simulation window. The SimulationInitialParameter.xls file is in the directory bearing the number of this experiment (see *Run* above).

## Specific Run

Calls the `core.orgNew.specificRun_1()` function, that you can program at your need.

