SEN9110 Simulation Package: Assignment 4

Assignment to be carried out in your simulation package

Check on the basis of the documentation and example models of your package:

*Which **simulation formalisms** (DEVS, DESS, DTSS, Agent, ...) the package supports*

- provide a nice example of each in your slide pack
- how the different formalisms are linked when they are combined in one model
    - how is state consistency managed?
    - how is time managed?
    - how is transfer of data between the submodels managed?

*Which **locality** / localities the package uses / supports for discrete-event models*

- locality of state (activity scanning)
- locality of time (event scheduling)
- locality of object (process interaction)
- provide clear examples on one or more slides

*Whether **hierarchical modeling** is supported*

- can a model consist of submodels?
- can submodels be abstracted from built models?
- can new libraries of submodels be constructed from newly built components?
- provide example(s) on one or more slides if support is present

*Whether **distribution** of models is supported*

- can the model act as a federate in a federation?
- provide example(s) on one or more slides if support is present

You do not have to build models yourself for this exercise. Just check in the manual and examples whether and how these features are implemented and reflect on this in your slides.

Deadline and requirements

Hand in a small slide pack (5-10 slides) describing what features are supported in the package. Provide example models (in the form of screen dumps) to illustrate what is possible and what not.

The slides have to be uploaded Friday 11 October latest at 17:00 as an assignment in Brightspace.