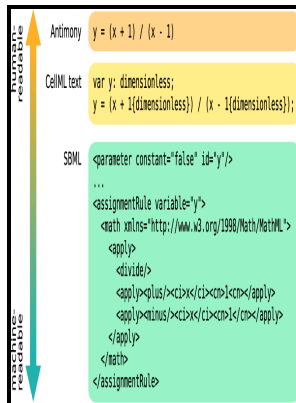# Programming language extension for discrete event simulation.

- - A History of Discrete Event Simulation Programming Languages

Description: -
-Programming language extension for discrete event simulation.
-Programming language extension for discrete event simulation.
Notes: Thesis (Ph. D.)--The Queens University of Belfast, 1976.
This edition was published in 1976

Filesize: 37.17 MB

Tags: #Computer #Science #Technical #Reports

Activity simulation in Modula

DE-Sim: a Python-based object-oriented discrete-event simulator for modeling complex systems DE-Sim is an open-source, Python-based object-oriented discrete-event simulation DES tool that makes it easy to use large, heterogeneous datasets and high-level data science tools such as , , , and to build and simulate complex computational models. Nonetheless, many of the available libraries provide features that you would not want to have to recreate yourself and you should look at these libraries for any large projects By working through the lessons you will understand what goes into a simulation package and will hopefully be in a better position to either write your own simulations or evaluate existing software libraries.

Activity simulation in Modula

Full text available as: PDF - Requires or other PDF viewer.

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You could also put these classes in a separate package if you are the neat and tidy type. Fishwick Discrete Systems Simulation, by B. This allows us to create concrete classes that implement Event and flesh out the Simulator class.

Activity simulation in Modula

This lesson develops a more elaborate model for the spread of a disease through a population. If you prefer, you can merge the two classes and commit yourself to simulations in which events are ordered by time. This model shows one way to structure event code in a language where you do not have closures.

Computer Science Technical Reports

Simulation Modeling and Analysis, by A. The justification for this approach is the conceptual parallels between programming and language design,

and the way in which programmer defined constructs are in practice not distinguished from those provided as part of the programming language. An interface is only allowed to defined the signature of methods.

Computer Science Technical Reports

The implementation of the OrderedSet is left for lesson 3. The five periods, spanning 1955-1986, are labeled: The Period of Search 1955-1960 ; The Advent 1961-1965 ; The Formative Period 1966-1970 ; The Expansional Period 1971-1978 ; and The Period of Consolidation and Regeneration 1979-1986. There are a few things that are set up in this lesson with extra flexibility so that lesson 10 can re-use most of this code without modification.

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I have also showed how to used the freely available OrderedSet class that is part of JGL from to get a faster implementation of the event queue. In particular, the thread support in Java only partially implemented, differs across platforms, and is in flux. In lesson 8 we avoided this by testing whether recovery would occur before the next contact, but this lesson shows a different implementation strategy.

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