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such as analysis, design,

and control of physical

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often composed of

interacting mechanical,

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molecular/cellular, organ-
system, on up to
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simulation) is the use of a
computer program to
model the time-varying
behavior of a dynamical

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system. The systems are typically described by ordinary differential equations or partial differential equations. A simulation run solves the state-equation system to find the behavior of the state variables over a specified period of time.

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NOC:Modelling and ...

Richard Bennett created the first system dynamics computer modeling language called SIMPLE (Simulation of Industrial Management Problems with Lots of Equations) in the spring of 1958. In 1959, Phyllis Fox and Alexander Pugh wrote

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the first version of DYNAMO (DYNAMIC MOdels), an improved version of SIMPLE, and the system dynamics language became the industry standard for over thirty years.

System dynamics -

Wikipedia

The System Dynamics software TRUE

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philosophy based on power and energy interactions; methods for understanding system characteristics and predicting system behaviors; and the use of graphical depictions of dynamic systems that can be translated automatically into complex mathematical models for computer simulation.

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Dynamic models provide

one means of simulating

the time-dependent

behavior of systems. The

defining feature of a

dynamic model is that

unlike the static model, it

does maintain an internal

'memory' of some

combination of prior

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inputs, internal variables, and outputs. The canonical example of a dynamic model involves the combination of algebraic ...

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highlights essential topics

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Major Paradigms in

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Simulation Modeling

The major approaches (paradigms) in simulation modeling are shown in the same scale in Figure 3: System

Dynamics (SD),

“ Discrete Event ” (DE) and Agent Based (AB).

SD and DE are

traditional, AB is

relatively new. There is

also Dynamic Systems

(DS) field, but it stays a

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bit aside as it is used to

Modeling
Simulation And
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From System Dynamics
to Agent Based Modeling

System dynamics is a highly abstract method of modeling. It ignores the fine details of a system, such as the individual properties of people, products, or events, and produces a general representation of a complex system. These

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abstract simulation

models may be used for
long-term, strategic
modeling and

simulation.

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