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Conference Paper

A new method of modelling and simulation of water networks with discontinuous control elements

January 2012

Conference: 14th Water Distribution Systems Analysis Symposium · At: Adelaide, Australia

Daniel Paluszczyszyn · Piotr Skworcow · Bogumil Ulanicki

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Quantized-State Systems: A DEVS approach for continuous system simulation

Article

Sep 2001 · SIMULATION: Transactions of The Society for Modeling and Simulation International

Ernesto Kofman · Sergio Junco

A new class of dynamical systems, Quantized State Systems or QSS, is introduced in this paper QSS are continuous time systems where the input trajectories are piecewise constant functions and the state variable trajectories-being themselves piecewise linear functions-are converted into piecewise constan...

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Article

Jan 2012 · Control Engineering Practice

Victorino Sanz · Alfonso Urquia · François Cellier · S. Dormido

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communicate the DEV/HLA models with the rest of the Modelling library. Thus, the library can be used

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Theory of quantized systems: Formal basis for DEVS/HLA distributed simulation environment

Article

Aug 1998 · Proceedings of SPIE - The International Society for Optical Engineering

 Bernard Phillip Zeigler ·  J. S. Lee

In the context of a DARPA ASTT project, we are developing an HLA-compliant distributed simulation environment based on the DEVS formalism. This environment will provide a user-friendly, high-level tool-set for developing interoperable discrete and continuous simulation models. One application is the stu...

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Modelling and simulation of water systems based on loop equations, IJSSST, ISSN 1473-804x Online, <http://ijssst.info/Vol-05/No-1&2/ARSENE.pdf>

Article

[Full-text available](#)

Jul 2004

 Corneliu T Arsene ·  Andrzej Bargiela ·  David Al-Dabass

This paper presents a simulation scheme for water distribution systems based on loop equations. Water networks are large scale and non-linear systems. The operational control of such system has posed difficulties in the past to the human operator that had to take the right decisions, such as pumping mor...

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Discrete state simulation of power system dynamics

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May 2008

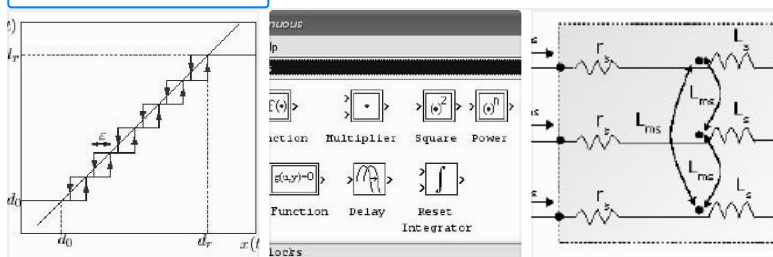
 Lan Tang ·  Hongchun Shu

Conventional power system dynamic simulation is based on discretization of time. When distributed simulator is implemented, inherent continuity of time requires frequent communication among different solvers. Given the fact that state variables of system are usually loosely coupled, even independent, thi...

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Conference Paper

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recently for hybrid system simulation. The software PowerDEVS is close to MATLAB/Simulink(C) but...

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