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Transforming classic Discrete Event System Specification models to Specification and Description Language

February 2015 · SIMULATION: Transactions of The Society for Modeling and Simulation International 91(3)

DOI: 10.1177/0037549715571623

Project: [SDLPS \(Co-simulation engine\)](#).

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 H.S. Song ·  T.G. Kim

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 Georgios-Dimitrios Kapos ·  Mara Nikolaidou ·  Vassilis Dalakas ·  Dimosthenis Anagnostopoulos

System models validation is an important engineering activity of the system development life-cycle, usually performed via simulation. However, usability and effectiveness of many validation approaches are hindered by the fact that system simulation is not performed using a system model described by a...

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Two new Modelica libraries are presented. The first library, named GGADLib, supports the DEVS graph notation in Modelica. The second Modelica library, named UDPLib, allows sending and receiving data using the User Datagram Protocol (UDP). GGADLib uses UDPLib. As a result, DEVS graph models...

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Towards an automatic transformation from a DEVS to a SDL specification

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Jul 2009

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SDL is a graphical language, standardized under the Z.100 recommendation, widely used to represent telecommunication systems, process control and real-time applications in general. In this paper we have three objectives, first present an algorithm that allows the transformation of a DEVS specification to an...

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The DEVS-Driven Modeling Language: Syntax and Semantics Definition by Meta Modeling and Graph Transformation

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 Mamadou Kaba Traoré ·  Ufuoma Bright Ighoroje ·  Oumar Maiga

This paper presents the syntax and semantics of the DEVS-Driven Modeling Language (DDML), a simulation modeling formalism that combines visual modeling, discrete event simulation and formal analysis. The use of visual notations makes DDML highly communicable. Simulation and formal analy...

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Jan 2009

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