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复杂系统仿真的模型重用研究

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Conference Paper

Dec 2017

 Melanie Barker ·  Nancy Zupick

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**Research Challenges in Modeling and Simulation for Engineering Complex Systems**

Book

Jan 2017

 Richard Fujimoto ·  Conrad Bock ·  Wei Chen · [...] ·  Jitesh Panchal

This illuminating text/reference presents a review of the key aspects of the modeling and simulation





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## Guide to Modeling and Simulation of Systems of Systems

Book

Jan 2017

 Bernard Phillip Zeigler ·  Hessam Sarjoughian

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## Model Reuse, Composition, and Adaptation

Chapter

Aug 2017

 Osman Balci ·  George L. Ball ·  Katherine L. Morse · [...] ·  Sandra N. Veautour

It is often the case that models and simulations of subsystems such as the components making up a vehicle are created in isolation and must later be integrated with other models to create a model of the overall system. However, the reuse of existing models and simulations can be costly and time-consumin...

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Conference Paper

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Apr 2017

 Paolo Bocciarelli ·  Andrea D'Ambrogio ·  Antonio Mastromattei ·  Andrea Giglio

MSaaS (M&S as a Service) is gaining momentum as an effective approach to bring the benefits of service-oriented architectures and cloud computing into the M&S field, so as to enhance interoperability, composability, reusability and reduce the cost of M&S efforts. Such significant advantages can be furth...

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## Towards a UTP Semantics for Modelica

Conference Paper

Jan 2017

 Simon Foster ·  Bernhard Thiele ·  Ana Cavalcanti ·  Jim Woodcock

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### An evaluation of DEVS simulation tools

Article

Nov 2016 · SIMULATION: Transactions of The Society for Modeling and Simulation International

 Yentl Van Tendeloo ·  Hans Vangheluwe

DEVS is a popular formalism for modeling complex dynamic systems using a discrete-event abstraction. Owing to its popularity, and the simplicity of the simulation kernel, a number of tools have been constructed by academia and industry. However, each of these tools has distinct design goals and a...

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### BOM-based design knowledge representation and reasoning for collaborative product development

Article

May 2016 · Journal of Systems Science and Systems Engineering

 Gongzhuang Peng ·  Huachao Mao ·  Hongwei Wang ·  Heming Zhang

Modern product development becomes increasingly collaborative and integrated, which raises the need for effectively and efficiently sharing and re-using design knowledge in a distributed and collaborative environment. To address this need, a framework is developed in this research to support design...

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### Research Challenges in Parallel and Distributed Simulation

Article

May 2016 · ACM Transactions on Modeling and Computer Simulation

 Richard M. Fujimoto

The parallel and distributed simulation field has evolved and grown from its origins in the 1970s and 1980s and remains an active field of research to this day. A brief overview of research in the field is presented. Future research topics are explored including areas such as problem-driven simulation of large-scale...

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Nov 2015

 Sixuan Wang ·  G. A. Wainer

Web services have been used in Modeling and Simulation (M&S) for many years, but it is still hard to develop complex M&S applications by using heterogeneous data and varied services. Here we show how to simplify the M&S application development by using mashup technologies. We introduce a novel...

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