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Comparing System Dynamics and Agent-Based Simulation for ...

Comparing System Dynamics and Agent-Based Simulation for Tumour Growth and its Interactions with Effector Cells Graziela P Figueredo, Uwe Aickelin IMA Research Group, Computer Science School, Nottingham University, Wollaton Road, Nottingham, NG8 1BB UK gzf@csnottacuk, uxa@csnottacuk

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System Dynamics or Agent-Based Models? Wrong question ...

Dynamics of Diffusion: Comparing Agent-based and Differential Equation Models, Management Science, 54(5):998-1014 To summarize, asking "should I used System Dynamics or an agent-based model?" is a category mistake System Dynamics models can be implemented using a wide range of

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Discrete Event Simulation, System Dynamics and Agent Based ...

Discrete Event Simulation, System Dynamics and Agent Based Simulation: Discussion and Comparison Robert Maidstone STOR-i DTC, Lancaster University Introduction Simulation modelling is an important tool in Operational Research: It provides a method to approximate the behaviour in the real system (and hence can be used for testing scenarios),

e-companion

e-companion to Rahmandad and Sterman: Heterogeneity and Network Structure in the Dynamics of Diffusion: Comparing Agent-Based and Differential Equation Models This supplement documents the DE and AB models and results, including the construction of the different networks for the AB simulations, sensitivity analysis, the calibration process and

Heterogeneity and Network Structure in the Dynamics of ...

Mar 21, 2007 · Heterogeneity and Network Structure in the Dynamics of Diffusion: Comparing Agent-Based and Differential Equation Models Hazhir Rahmandad hazhir@mit.edu John Sterman jsterman@mit.edu MIT Sloan School of Management, Cambridge MA 02142 Revision of March 2007 We thank Reka Albert, Rosanna Garcia, Ed Kaplan, David Krackhardt, Marc Lipsitch, Nelson

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different social simulations can be about the same focal system (eg, an agent-based model and a systems dynamics model of the same Eastern Africa region), while other social simulations model different focal systems (eg, Eastern Africa and Central Asia) using the same type of computational model (such as agent-based models)

Heterogeneity and Network Structure in the Dynamics of ...

While agent-based modeling is not new in system dynamics, there are differences between many modern agent models and typical system dynamics models First, while the example of Forrester's supply chain model show that SD can portray distinct agents, there are other SD models in which a system is highly aggregated, with a small number of state

Agent-Based Models of Socio-Hydrological Systems for ...

May 09, 2008 · comparing simulations of these different settings, the dynamics of each system can be put in context, and some useful side lessons obtained as to the viability and universality of using agent-based approaches to simulate water conflict settings

Comparing Insider IT Sabotage and Espionage: A Model ...

Comparing Insider IT Sabotage and Espionage: A Model-Based Analysis external and commercial use should be addressed to the SEI Licensing Agent sabotage and espionage cases to assess whether a single analytical framework based on system dynamics modeling could be developed to isolate the major factors or conditions leading to both

arXiv:1607.05888v1 [cs.AI] 20 Jul 2016

In particular, we are comparing system dynamics modelling and simulation (SDMS) and agent-based modelling and simulation (ABMS) for the case of age-related depletion of naive T cells in the organism We address the following research questions: Which simulation approach is more suitable

Heterogeneity and Network Structure in the Dynamics of ...

Heterogeneity and Network Structure in the Dynamics of Diffusion: Comparing Agent-Based and Differential Equation Models Hazhir Rahmandad hazhir@vt.edu Virginia Tech, Falls Church, VA 22043 John Sterman jsterman@mit.edu MIT Sloan School of Management, Cambridge MA 02142

Revision of August 2007 Forthcoming Management Science

Software Development Process Simulation: Multi Agent-Based ...

software organisation at NASA Here too, system dynamics was used However, as it was noted above, equation based models such as system dynamics often embody as-sumptions of homogeneity yielding less accurate results than those excluding such as-sumptions Parunak et al [16] summarise this in a case study comparing agent-based

Heterogeneity and Network Structure in the Dynamics of ...

Aug 31, 2006 · Heterogeneity and Network Structure in the Dynamics of Diffusion: Comparing Agent-Based and Differential Equation Models Hazhir Rahmandad hazhir@mit.edu John Sterman jsterman@mit.edu MIT Sloan School of Management, Cambridge MA 02142 Revision of August 2006 We thank Reka Albert, Rosanna Garcia, Ed Kaplan, David Krackhardt, Marc Lipsitch, Nelson

Discrete Event Simulation, System Dynamics and Agent Based ...

Discrete Event Simulation, System Dynamics and Agent Based Simulation: Discussion and Comparison Robert Maidstone March 7, 2012 1 Introduction Simulation ...

VARIANCE IN SYSTEM DYNAMICS AND AGENT BASED ...

from an Agent Based Model is able to capture the „typical“ outcome from a single simulation experiment Unlike System Dynamics which uses a top-down approach to model the system as a whole, in Agent Based simulations, the system is „brought about“ by carrying out the lower level interactions between the

Hazhir Rahmandad - MIT Sloan

Workshop Organizer, International System Dynamics Conference Coordinator, MIT-U Albany System Dynamics PhD Colloquium 2016- 2002-2001-2006 Member of INFORMS, System Dynamics Society, Institute of Industrial Engineers, Academy of Management, Strategic Management Society 2000-