



REVIEW ARTICLE

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Large language models empowered agent-based modeling and simulation: a survey and perspectives

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Agent-based modeling and simulation have evolved as a powerful tool for modeling complex systems, offering insights into emergent behaviors and interactions among diverse agents. Recently, integrating large language models into agent-based modeling and simulation presents a promising avenue for enhancing simulation capabilities. This paper surveys the landscape of utilizing large language models in agent-based modeling and simulation, discussing their challenges and promising future directions. In this survey, since this is an interdisciplinary field, we first introduce the background of agent-based modeling and simulation and large language model-empowered agents. We then discuss the motivation for applying large language models to agent-based simulation and systematically analyze the challenges in environment perception, human alignment, action generation, and evaluation. Most importantly, we provide a comprehensive overview of the recent works of large language model-empowered agent-based modeling and simulation in multiple scenarios, which can be divided into four domains: cyber, physical, social, and hybrid, covering simulation of both real-world and virtual environments, and how these works address the above challenges. Finally, since this area is new and quickly evolving, we discuss the open problems and promising future directions. We summarize the representative papers along with their code repositories in <https://github.com/tsinghua-tib-lab/LLM-Agent-Based-Modeling-and-Simulation>.

Introduction

Simulation, as a computational tool, encompasses the emulation of real-world processes or systems by employing mathematical formulas, algorithms, or computer-generated representations to imitate their behaviors or characteristics. Agent-based modeling and simulation focuses on modeling complex systems by simulating individual agents and their interactions within an environment (Macal and North, 2005). It operates by assigning specific behaviors, attributes, and decision-making capabilities to these agents, enabling the examination of emergent phenomena resulting from agents' interactions and environment dynamics. The significance of simulation spans various domains, serving as a valuable tool for understanding, analyzing, and predicting intricate phenomena that might be impractical or impossible to observe directly in real life. It facilitates experimentation, hypothesis testing, and scenario analysis, offering insights into systems' behaviors under diverse conditions and aiding in

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Beyond Constructivism Richard A. Lesh, Helen M. Doerr, 2003 This book has two primary goals On the level of theory development the book clarifies the nature of an emerging models and modeling perspective about teaching learning and problem solving in mathematics and science education On the level of emphasizing practical problems it clarifies the nature of some of the most important elementary but powerful mathematical or scientific understandings and abilities that Americans are likely to need as foundations for success in the present and future technology based information age Beyond Constructivism Models and Modeling Perspectives on Mathematics Problem Solving Learning and Teaching features an innovative Web site housing online appendices for each chapter designed to supplement the print chapters with digital resources that include example problems relevant research tools and video clips as well as transcripts and other samples of students work <http://tcct.soe.purdue.edu/books/ULandULjournals/models/ULandULmodeling> This is an essential volume for graduate level courses in mathematics and science education cognition and learning and critical and creative thinking as well as a valuable resource for researchers and practitioners in these areas

Models and Modeling Perspectives Richard A. Lesh, 2003-04 First Published in 2003 Routledge is an imprint of Taylor Francis an informa company Modeling And Analysis Of Dependable Systems: A Probabilistic Graphical Model Perspective Luigi Portinale, Daniele Codetta Raiteri, 2015-06-09 The monographic volume addresses in a systematic and comprehensive way the state of the art dependability reliability availability risk and safety security of systems using the Artificial Intelligence framework of Probabilistic Graphical Models PGM After a survey about the main concepts and methodologies adopted in dependability analysis the book discusses the main features of PGM formalisms like Bayesian and Decision Networks and the advantages both in terms of modeling and analysis with respect to classical formalisms and model languages Methodologies for deriving PGMs from standard dependability formalisms will be introduced by pointing out tools able to support such a process Several case studies will be presented and analyzed to support the suitability of the use of PGMs in the study of dependable systems

Conceptual Modeling - ER 2010 Jeffrey Parsons, Motoshi Saeki, Peretz Shoval, Carson Woo, Yair Wand, 2010-10-27 This publication comprises the proceedings of the 29 International Conference on Conceptual Modeling ER 2010 which was held this year in Vancouver British Columbia Canada Conceptual modeling can be considered as lying at the confluence of the three main aspects of information technology applications the world of the stakeholders and users the world of the developers and the technologies available to them Conceptual models provide abstractions of various aspects related to the development of systems such as the application domain user needs database design and software specifications These models are used to analyze and define user needs and system requirements to support communications between stakeholders and developers to provide the basis for systems design and to document the requirements for and the design rationale of developed systems Because of their role at the junction of usage development and technology conceptual models can be very

important to the successful development and deployment of IT applications Therefore the research and development of methods techniques tools and languages that can be used in the process of creating maintaining and using conceptual models is of great practical and theoretical importance Such work is conducted in academia research institutions and industry Conceptual modeling is now applied in virtually all areas of IT applications and spans varied domains such as organizational information systems systems that include specialized data for spatial temporal and multimedia applications and biomedical applications

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Towards a Competence-Based View on Models and Modeling in Science Education Annette Upmeyer zu Belzen,Dirk Krüger,Jan van Driel,2020-01-01 The book takes a closer look at the theoretical and empirical basis for a competence based view of models and modeling in science learning and science education research Current thinking about models and modeling is reflected The focus lies on the development of modeling competence in science education and on philosophical aspects including perspectives on nature of science The book explores interprets and discusses models and modeling from the perspective of different theoretical frameworks and empirical results The extent to which these frameworks can be integrated into a competence based approach for science education is discussed In addition the book provides practical guidance by outlining evidence based approaches to diagnosing and promoting modeling competence The aim is to convey a strong understanding of models and modeling for professions such as teacher educators science education researchers teachers and scientists Different methods for the diagnosis and assessment of modeling competence are presented and discussed with regard to their potential and limitations The book provides evidence based ideas about how teachers can be supported in teaching with models and modeling implementing a competence based approach and thus how students can develop their modeling competence Based on the findings research challenges for the future are identified

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