

High abstraction level
(minimum details,
macro level,
strategic level)

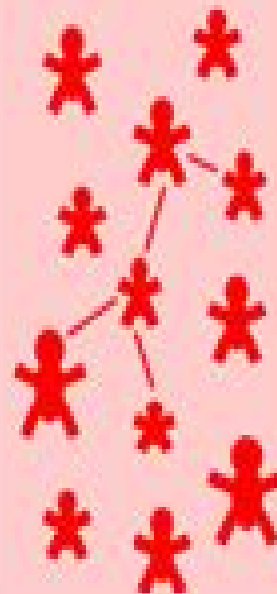
Aggregates, feedback loops, high level influences, ...

SD



System
Dynamics

AB



Agent-based
modeling

DE



Discrete event
(process-
centric)
modeling

Low abstraction level
(maximum details,
micro level,
operational level)

Individual objects, exact sizes, velocities, distances, timing...

Comparing System Dynamics And Agent Based Simulation For

**Bruce Edmonds, Cesareo
Hernandez, Klaus G. Troitzsch**



Comparing System Dynamics And Agent Based Simulation For:

Comparing System Dynamics and Agent-based Simulation Christian Bauer, Leon Barbulovic-Nad, 2005 Simulation Stewart Robinson, 2026-02-26 This textbook provides a comprehensive introduction to simulation and its value as an applied problem solving tool X-Machines for Agent-Based Modeling Mariam Kiran, 2017-08-30 From the Foreword This book exemplifies one of the most successful approaches to modeling and simulating the new generation of complex systems FLAME was designed to make the building of large scale complex systems models straightforward and the simulation code that it generates is highly efficient and can be run on any modern technology FLAME was the first such platform that ran efficiently on high performance parallel computers and a version for GPU technology is also available At its heart and the reason why it is so efficient and robust is the use of a powerful computational model Communicating X machines which is general enough to cope with most types of modelling problems As well as being increasingly important in academic research FLAME is now being applied in industry in many different application areas This book describes the basics of FLAME and is illustrated with numerous examples Professor Mike Holcombe University of Sheffield UK Agent based models have shown applications in various fields such as biology economics and social science Over the years multiple agent based modeling frameworks have been produced allowing experts with non computing background to easily write and simulate their models However most of these models are limited by the capability of the framework the time it takes for a simulation to finish or how to handle the massive amounts of data produced FLAME Flexible Large scale Agent based Modeling Environment was produced and developed through the years to address these issues This book contains a comprehensive summary of the field covers the basics of FLAME and shows how concepts of X machines can be stretched across multiple fields to produce agent models It has been written with several audiences in mind First it is organized as a collection of models with detailed descriptions of how models can be designed especially for beginners A number of theoretical aspects of software engineering and how they relate to agent based models are discussed for students interested in software engineering and parallel computing Finally it is intended as a guide to developers from biology economics and social science who want to explore how to write agent based models for their research area By working through the model examples provided anyone should be able to design and build agent based models and deploy them With FLAME they can easily increase the agent number and run models on parallel computers in order to save on simulation complexity and waiting time for results Because the field is so large and active the book does not aim to cover all aspects of agent based modeling and its research challenges The models are presented to show researchers how they can build complex agent functions for their models The book demonstrates the advantage of using agent based models in simulation experiments providing a case to move away from differential equations and build more reliable close to real models The Open Access version of this book available at <https://doi.org/10.1201/9781315370729> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

Experimental and Quantitative Methods in Contemporary Economics Kesra Nermend, Małgorzata Łatuszyńska, 2019-10-12 Contemporary economists when analyzing economic behavior of people need to use the diversity of research methods and modern ways of discovering knowledge The increasing popularity of using economic experiments requires the use of IT tools and quantitative methods that facilitate the analysis of the research material obtained as a result of the experiments and the formulation of correct conclusions This proceedings volume presents problems in contemporary economics and provides innovative solutions using a range of quantitative and experimental tools Featuring selected contributions presented at the 2018 Computational Methods in Experimental Economics Conference CMEE 2018 this book provides a modern economic perspective on such important issues as sustainable development consumption production national wealth the silver economy behavioral finance economic and non economic factors determining the behavior of household members consumer preferences social campaigns and neuromarketing International case studies are also offered

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