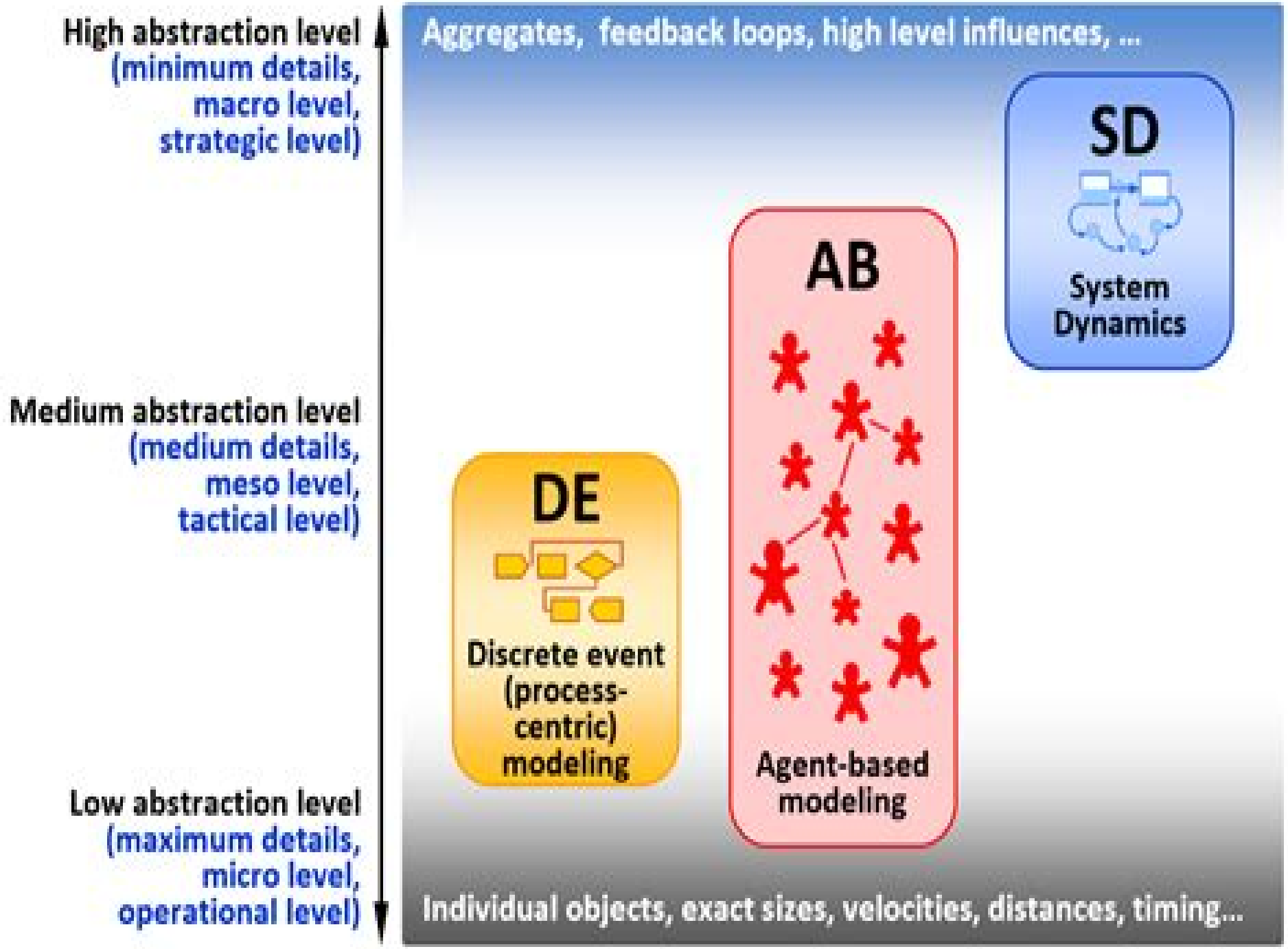
High abstraction level
(minimum details,
macro level,
strategic level)
Medium abstraction level
(medium details,
meso level,
tactical level)
Low abstraction level
(maximum details,
micro level,
operational level)
Aggregates, feedback loops, high level influences, ...
SD
System Dynamics
AB
Agent-based modeling
DE
Discrete event (process-centric) modeling
Individual objects, exact sizes, velocities, distances, timing...

Comparing System Dynamics And Agent Based Simulation For

Scott C. Dulebohn

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

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Defense Modeling, Simulation, and Analysis National Research Council,Division on Engineering and Physical Sciences,Board on Mathematical Sciences and Their Applications,Committee on Modeling and Simulation for Defense Transformation,2006-09-22 Modeling simulation and analysis MS A is a crucial tool for military affairs MS A is one of the announced pillars of a strategy for transforming the U S military Yet changes in the enterprise of MS A have not kept pace with the new demands arising from rapid changes in DOD processes and missions or with the rapid changes in the technology available to meet those demands To help address those concerns DOD asked the NRC to identify shortcomings in current practice of MS A and suggest where and how they should be resolved This report provides an assessment of the changing mission of DOD and environment in which it must operate an identification of high level opportunities for MS A research to address the expanded mission approaches for improving the interface between MS A practitioners and decision makers a discussion of training and continuing education of MS A practitioners and an examination of the need for coordinated military science research to support MS A *Multi-agent Systems and Agent-based Simulation* ,1998

Proceedings of the 37th Annual Hawaii International Conference on System Sciences Ralph H. Sprague,2004 HICSS 2004 consists of over 500 papers in nine major tracks HICSS provides a unique forum for the interchange of ideas advances and applications among academicians and practitioners in the information computing and system sciences The conference continues to be one of the best working conferences in computer related sciences with a high level of interaction among the leading scientists engineers and professionals The CD ROM containing all of the complete papers presented at HICSS 2004 is included in the book of abstracts Proceedings of the 19th International Conference of the System Dynamics Society System Dynamics Society,2001 **The Proceedings of the 20th International Conference of the System Dynamics Society** System Dynamics Society. International Conference,2002 *Global Logistics Management* Wolfgang Kersten,2008

HICSS-36 Ralph H. Sprague,2003 *Health Information Systems* Joel Rodrigues,2009-12-31 This reference set provides

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