Simulation modeling and Arena /

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Monografía

Discrete-event simulation is an important tool for the modeling of complex systems. Simulation is used to represent manufacturing, transportation, and service systems in a computer program to perform experiments on a computer. Simulation modeling involves elements of system modeling, computer programming, probability and statistics, and engineering design. Simulation Modeling and Arena, by Dr. Manuel Rossetti, is an introductory textbook for a first course in discrete-event simulation modeling and analysis for upper-level undergraduate students as well as entering graduate students. The text is focused on engineering students (primarily industrial engineering); however, the text is also appropriate for advanced business majors, computer science majors, and other disciplines where simulation is practiced. Practitioners interested in learning simulation and Arena could also use this book independently of a course

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Título: Simulation modeling and Arena Manuel D. Rossetti

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Descripción física: 1 online resource 1 online resource illustrations, chart, color

Nota general: "This book was created in Markdown and is available through GitHub. The author encourages students within a class setting to clone the repository using a program such as Github desktop."

Bibliografía: Includes bibliographical references and index

Contenido: Simulation modeling -- Introduction to simulation and ArenaTM -- Statistical analysis for finite horizon simulation models -- Modeling systems with processes and basic entity flow -- Statistical analysis for infinite horizon simulation models -- Modeling systems with advanced process concepts -- Modeling systems with entity movement and material handling constructs -- Applications of simulation modeling -- -- Appendix A : Generating pseudo-random numbers and random variates -- Appendix B : Probability distribution modeling -- Appendix C : Queueing theory -- Appendix D : Miscellaneous topics in arena-- Appendix E : Arena operators, functions, distributions and modules -- Appendix F : Distributions -- Appendix G : Statistical tables

Materia Título preferido: Arena (Computer file)

Materia: Computer simulation

Entidades: University of Arkansas publisher

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