

This book is an excellent introduction to using AI in games. The author has a knack for making complex subjects accessible. The text is very clear and thoroughly thorough. The author has chosen—wisely—to avoid the esoteric and focus on topics that are directly useful for making real computer games.

—Richard Evans, senior AI architect, Electronic Arts

Behavioral Mathematics for Game AI



Dave Mark



Behavioral Mathematics For Game Ai

Jeffrey Ross Stevens



Behavioral Mathematics For Game Ai:

Behavioral Mathematics for Game AI Dave Mark, 2009 Human behavior is never an exact science making the design and programming of artificial intelligence that seeks to replicate human behavior difficult. Usually the answers cannot be found in sterile algorithms that are often the focus of artificial intelligence programming. However, by analyzing why people behave the way we do, we can break down the process into increasingly smaller components. We can model many of those individual components in the language of logic and mathematics and then reassemble them into larger, more involved decision-making processes. Drawing from classical game theory, Behavioral Mathematics for Game AI covers both the psychological foundations of human decisions and the mathematical modeling techniques that AI designers and programmers can use to replicate them. With examples from both real life and game situations, you'll explore topics such as utility, the fallacy of rational behavior, and the inconsistencies and contradictions that human behavior often exhibits. You'll examine various ways of using statistics, formulas, and algorithms to create believable simulations and to model these dynamic, realistic, and interesting behaviors in video games. Finally, you'll be introduced to a number of tools you can use in conjunction with standard AI algorithms to make it easier to utilize the mathematical models. *Game AI Pro 3* Steve Rabin, 2017-07-12 *Game AI Pro 3* Collected Wisdom of Game AI Professionals presents state-of-the-art tips, tricks, and techniques drawn from developers of shipped commercial games as well as some of the best-known academics in the field. This book acts as a toolbox of proven techniques coupled with the newest advances in game AI. These techniques can be applied to almost any game and include topics such as behavior trees, utility theory, path planning, character behavior, and tactical reasoning. **KEY FEATURES** Contains 42 chapters from 50 of the game industry's top developers and researchers. Provides real-life case studies of game AI in published commercial games. Covers a wide range of AI in games with topics applicable to almost any game. Includes downloadable demos and/or source code available at <http://www.gameai.pro>. **SECTION EDITORS** Neil Kirby General Wisdom Alex Champandard Architecture Nathan Sturtevant Movement and Pathfinding Damian Isla Character Behavior Kevin Dill Tactics and Strategy Odds and Ends *Game AI Pro 360: Guide to Tactics and Strategy* Steve Rabin, 2019-09-06 Steve Rabin's *Game AI Pro 360: Guide to Tactics and Strategy* gathers all the cutting-edge information from his previous three *Game AI Pro* volumes into a convenient single-source anthology that covers game AI strategy and tactics. This volume is complete with articles by leading game AI programmers that focus largely on combat decisions made in a wide variety of genres such as RTS, RPG, MOBA, strategy, and tower defense games. **Key Features** Provides real-life case studies of game AI in published commercial games. Material by top developers and researchers in Game AI. Downloadable demos and/or source code available online. *Game AI Pro 360: Guide to Architecture* Steve Rabin, 2019-09-10 Steve Rabin's *Game AI Pro 360: Guide to Architecture* gathers all the cutting-edge information from his previous three *Game AI Pro* volumes into a convenient single-source anthology covering game AI architecture. This volume is complete with articles by leading game AI

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professionals in mathematics computer science and economics who are interested in applying game theory to analyze and design strategic systems Offering a unique interdisciplinary perspective combining differential game theory s continuous decision making with algorithmic methodologies this volume sets the stage for future installments providing real world case studies and applications that illustrate the practical use of game theory in dynamic complex environments

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