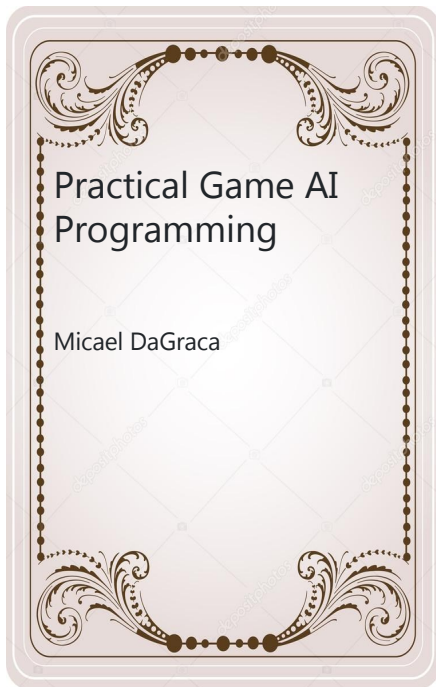


Practical Game AI Programming

Micael DaGraca



Jump into the world of Game AI development About This Book * Move beyond using libraries to create smart game AI, and create your own AI projects from scratch * Implement the latest algorithms for AI development and in-game interaction * Customize your existing game AI and make it better and more efficient to improve your overall game performance Who This Book Is For This book is for game developers with a basic knowledge of game development techniques and some basic programming techniques in C# or C++. What You Will Learn * Get to know the basics of how to create different AI for different type of games * Know what to do when something interferes with the AI choices and how the AI should behave if that happens * Plan the interaction between the AI character and the environment using Smart Zones or Triggering Events * Use animations correctly, blending one animation into another and rather than stopping one animation and starting another * Calculate the best options for the AI to move using Pruning Strategies, Wall Distances, Map Preprocess Implementation, and Forced Neighbours * Create Theta algorithms to the AI to find short and realistic looking paths * Add many characters into the same scene and make them behave like a realistic crowd In Detail The book starts with the basics examples of AI for different game genres and directly jumps into defining the probabilities and possibilities of the AI character to determine character movement. Next, you'll learn how AI characters should behave within the environment created. Moving on, you'll explore how to work with animations. You'll also plan and create pruning strategies, and create Theta algorithms to find short and realistic looking game paths. Next, you'll learn how the AI should behave when there is a lot of characters in the same scene. You'll explore which methods and algorithms, such as possibility maps, Forward Chaining Plan, Rete Algorithm, Pruning Strategies, Wall Distances, and Map Preprocess Implementation should be used on different occasions. You'll discover how to overcome some limitations, and how to deliver a better experience to the player. By the end of the book, you think differently about AI. Style and approach The book has a step-by-step tutorial style approach. The algorithms are explained by implementing them in #.

- [Power Rangers Samurai : Meet the Rangers](#)
- [Poverty: its Degrees, its Causes and its Relief : A Multidisciplinary Approach to an Urgent Problem](#)
- [Powerdown : A Schools` Climate Change Toolkit - Secondary](#)
- [The Power of the Smile : Humour in Spanish Culture](#)
- [Power Systems and Renewable Energy : Design, Operation, and Systems Analysis](#)
- [Power in Flight](#)
- [Practical Drug Therapy](#)
- [Poverty Alleviation, Institutional Development and Needs Assessment](#)