



# AI Game Engine Programming

By Brian Schwab

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A fully revised update to the first edition, "AI Game Engine Programming, Second Edition" provides game developers with the tools and information they need to create modern game AI engines. Covering the four principle elements of game artificial intelligence, the book takes you from theory to actual game development, going beyond merely discussing how a technique might be used. Beginning with a clear definition of game AI, you'll learn common terminology, the underlying concepts of AI, and you'll explore the different parts of the game AI engine. You'll then take a look at AI design considerations, solutions, and even common pitfalls genre-by-genre, covering the majority of modern game genres and examining concrete examples of AI used in actual commercial games. Finally, you'll study actual code implementations for each AI technique presented, both in skeletal form and as part of a real-world example, to learn how it works in an actual game engine and how it can be optimized in the future. Written for experienced game developers with a working knowledge of C++, data structures, and object oriented programming, "AI Game Engine Programming, Second Edition" will expand your AI knowledge and skills from start to finish.

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### **Editorial Review**

#### **About the Author**

An industry professional for over 17 years, Brian Schwab has worked on a huge variety of games at a number of different companies, always with a focus on gameplay, AI, and design. The author of AI Game Engine Programming, Brian has also given numerous talks at AIIDE (for which he also serves on the board) and GDC.

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