

# Engineering Multi Agent Systems: Uncover the Secrets of Building Intelligent, Coordinated Agent Teams



Engineering Multi-Agent Systems: 4th International Workshop, EMAS 2024, Singapore, Singapore, May 9-10, 2024, Revised, Selected, and Invited Papers

(Lecture Notes in Computer Science, 10093) by Adam Nathan

★★★★☆ 4.1 out of 5

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Multi agent systems (MASs) are becoming increasingly popular for solving complex problems in a wide range of domains, from robotics to healthcare to finance. MASs are composed of multiple, autonomous agents that interact with each other to achieve a common goal. However, engineering MASs can be a challenging task, as it requires careful consideration of agent communication, coordination, and negotiation.

In this book, you will learn the fundamental principles of engineering MASs. You will cover topics such as:

- Agent communication
- Agent coordination
- Agent negotiation
- MAS design patterns
- MAS implementation

By the end of this book, you will have a deep understanding of the challenges and techniques involved in engineering MASs. You will be able to design, implement, and evaluate MASs that are able to solve complex problems in a variety of domains.

### **Who is this book for?**

This book is for anyone who is interested in learning about the engineering of MASs. It is suitable for both beginners and experienced engineers. The book assumes no prior knowledge of MASs, but it does require a basic understanding of computer science and artificial intelligence.

### **What will you learn from this book?**

In this book, you will learn:

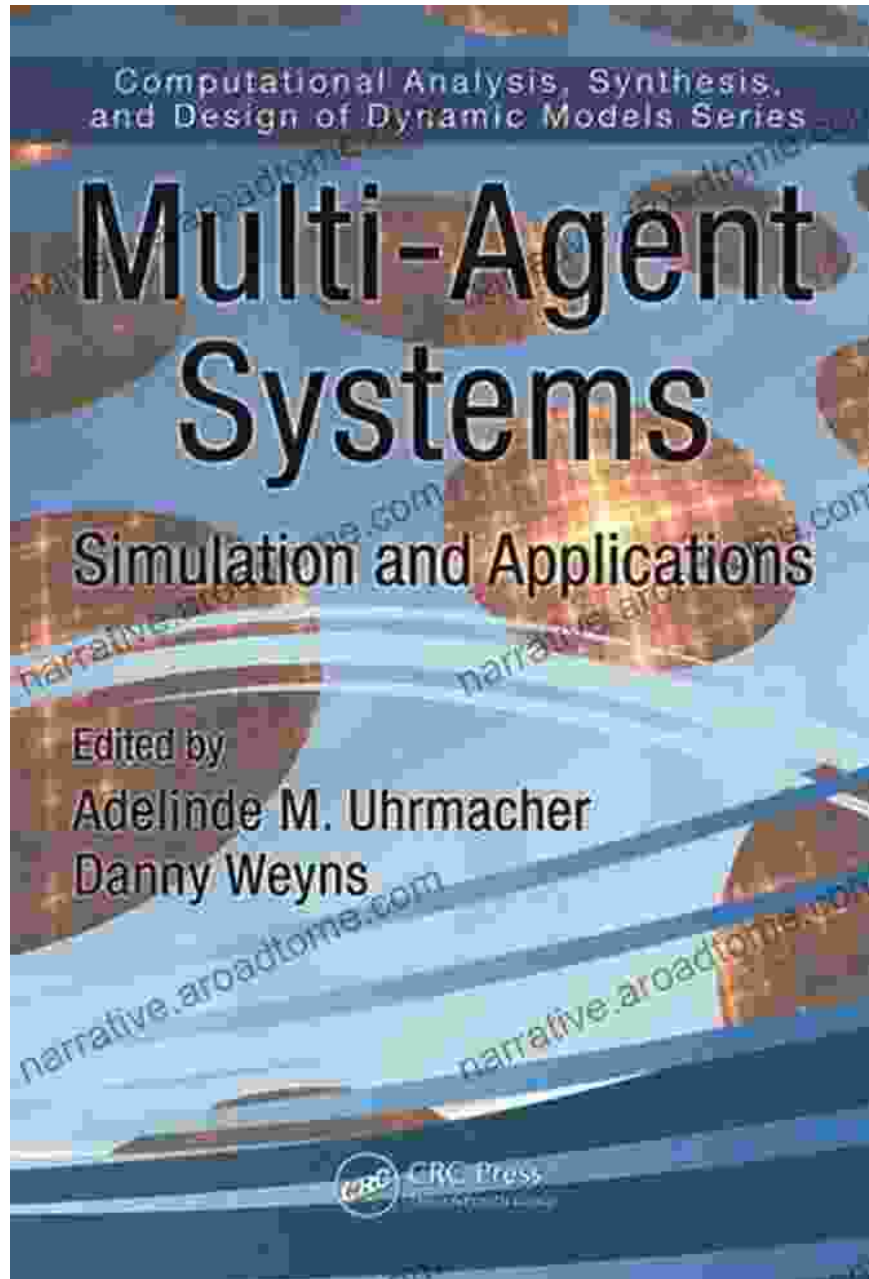
- The fundamental principles of engineering MASs
- How to design, implement, and evaluate MASs
- The latest techniques for agent communication, coordination, and negotiation
- How to use MASs to solve complex problems in a variety of domains

## **About the author**

Dr. David L. Poole is a professor of computer science at the University of British Columbia. He is a leading researcher in the field of artificial intelligence, and he has published over 100 papers in top-tier journals and conferences. Dr. Poole is the author of several books on artificial intelligence, including the best-selling textbook *Artificial Intelligence: A Modern Approach*.

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