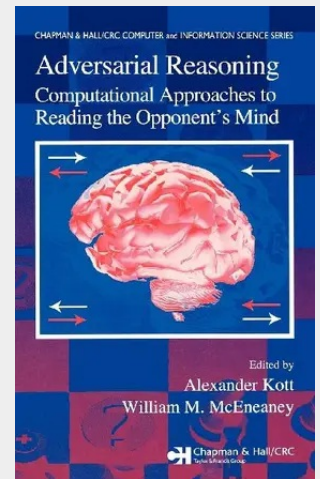


## Adversarial Reasoning

Computational Approaches to Reading the Opponent's Mind

The rising tide of threats, from financial cybercrime to asymmetric military conflicts, demands greater sophistication in tools and techniques of law enforcement, commercial and domestic security professionals, and terrorism prevention. Concentrating on computational solutions to determine or anticipate an adversary's intent, *Adversarial Reasoning: Computational Approaches to Reading the Opponent's Mind* discusses the technologies for opponent strategy prediction, plan recognition, deception discovery and planning, and strategy formulation that not only applies to security issues but also to game industry and business transactions. Addressing a broad range of practical problems, including military planning and command, military and foreign intelligence, antiterrorism, network security, as well as simulation and training systems, this reference presents an overview of each problem and then explores various approaches and applications to understand the minds and negate the actions of your opponents. The techniques discussed originate from a variety of disciplines such as stochastic processes, artificial intelligence planning, cognitive modeling, robotics and agent theory, robust control, game theory, and machine learning, among others. The beginning chapters outline the key concepts related to discovering the opponent's intent and plans while the later chapters journey into mathematical methods for counterdeception. The final chapters employ a range of techniques, including reinforcement learning within a stochastic dynamic games context to devise strategies that combat opponents. By answering specific questions on how to create practical applications that require elements of adversarial reasoning while also exploring theoretical developments, *Adversarial Reasoning: Computational Approaches to Reading the Opponent's Mind* is beneficial for practitioners as well as researchers.

Featuring approaches that draw from disciplines such as artificial intelligence and cognitive modeling, *Adversarial Reasoning: Computational Approaches to Reading the Opponent's Mind* describes technologies and applications that address a broad range of practical problems, including military planning and command, military and foreign intelligence, antiterrorism and domestic security, as well as simulation and training systems. The authors present an overview of each problem and then discuss approaches and applications, combining theoretical rigor with accessibility. This comprehensive volume covers intent and plan recognition, deception discovery, and strategy formulation.



**197,10 €**

197,10 € (zzgl. MwSt.)

*Lieferfrist: bis zu 10 Tage*

**Artikelnummer:** 9781584885887

**Medium:** Buch

**ISBN:** 978-1-58488-588-7

**Verlag:** Chapman and Hall/CRC

**Erscheinungstermin:** 01.07.2006

**Sprache(n):** Englisch

**Auflage:** 1. Auflage 2006

**Serie:** Chapman & Hall/CRC Computer and Information Science Series

**Produktform:** Gebunden

**Gewicht:** 716 g

**Seiten:** 364

**Format (B x H):** 161 x 240 mm

