

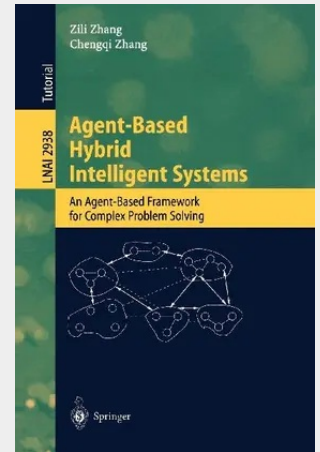
Agent-Based Hybrid Intelligent Systems

An Agent-Based Framework for Complex Problem Solving

Solving complex problems in real-world contexts, such as financial investment planning or mining large data collections, involves many different sub-tasks, each of which requires different techniques. To deal with such problems, a great diversity of intelligent techniques are available, including traditional techniques like expert systems approaches and soft computing techniques like fuzzy logic, neural networks, or genetic algorithms. These techniques are complementary approaches to intelligent information processing rather than competing ones, and thus better results in problem solving are achieved when these techniques are combined in hybrid intelligent systems. Multi-Agent Systems are ideally suited to model the manifold interactions among the many different components of hybrid intelligent systems.

This book introduces agent-based hybrid intelligent systems and presents a framework and methodology allowing for the development of such systems for real-world applications. The authors focus on applications in financial investment planning and data mining.

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80,24 €

74,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540209089

Medium: Buch

ISBN: 978-3-540-20908-9

Verlag: J.B. Metzler

Erscheinungstermin: 28.01.2004

Sprache(n): Englisch

Auflage: 1. Auflage 2004

Serie: Lecture Notes in Computer Science

Produktform: Kartoniert

Gewicht: 335 g

Seiten: 194

Format (B x H): 155 x 235 mm

