

Organizational Principles for Multi-Agent Architectures



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The general question addressed in this book "How can human organizational principles be used for multi-agent architectures?" is answered by an exploration of the possibilities to design multi-agent systems as artificial organizations. Key topics of this book: - a framework for multi-agent system design, based on human organizational notions and principles for distributed intelligent systems design - "Coordination mechanisms" in the form of "Problem Solving Methods," which can assist "Managers" and agent engineers in reasoning about coordination - the "Five Capabilities (5C) model" which is a conceptual framework bases on a generalization of typical agent intelligence competences, such as "autonomy," "interaction," "pro-activeness" and "reactiveness" - a multi-agent architecture capable of (semi)automatic reuse of Problem Solving Methods - "Ontology-based communication," in which the meaning and intention of message contents in agent communication is specified in "message content ontologies."

作者介绍:

目录:

[Organizational Principles for Multi-Agent Architectures 下载链接1](#)

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