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Nota di contenuto	Developing Intelligent Agent Systems; Contents; Foreword from the Series Editor; Preface; Acknowledgement; 1 Agents and Multi-Agent Systems; 1.1 What is an Intelligent Agent?; 1.2 Why are Agents Useful?; 2 Concepts for Building Agents; 2.1 Situated Agents: Actions and Percepts; 2.2 Proactive and Reactive Agents: Goals and Events; 2.3 Challenging Agent Environments: Plans and Beliefs; 2.4 Social Agents; 2.5 Agent Execution Cycle; 2.5.1 Choice of Plan to Execute; 2.5.2 Many Ways to Achieve a Goal; 2.6 Summary; 3 Overview of the Prometheus Methodology; 3.1 Why a New Methodology? 3.2 Prometheus: A Brief Overview3.2.1 System Specification; 3.2.2 Architectural Design; 3.2.3 Detailed Design; 3.3 Guidelines for Using Prometheus; 3.4 Agent-Oriented Methodologies; 4 System

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5.2 Grouping Functionalities5.3 Review Agent Coupling - Acquaintance Diagrams; 5.4 Develop Agent Descriptors; 6 Architectural Design: Specifying the Interactions; 6.1 Interaction Diagrams from Scenarios; 6.2 Interaction Protocols from Interaction Diagrams; 6.3 Develop Protocol and Message Descriptors; 7 Finalizing the Architectural Design; 7.1 Overall System Structure; 7.2 Identifying Boundaries of the Agent System; 7.3 Describing Percepts and Actions; 7.4 Defining Shared Data Objects; 7.5 System Overview Diagram; 7.6 Checking for Completeness and Consistency
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Sommario/riassunto

Build your own intelligent agent system... Intelligent agent technology is a tool of modern computer science that can be used to engineer complex computer programmes that behave rationally in dynamic and changing environments. Applications range from small programmes that intelligently search the Web buying and selling goods via electronic commerce, to autonomous space probes. This powerful technology is not widely used, however, as developing intelligent agent software requires high levels of training and skill. The authors of this book have developed and tested a methodology and to