



SECOND EDITION

An Introduction to

MultiAgent Systems

MICHAEL WOOLDRIDGE

An Introduction To Multiagent Systems

Michael Wooldridge



An Introduction To Multiagent Systems:

An Introduction to MultiAgent Systems Michael Wooldridge, 2009-06-22 The study of multi agent systems MAS focuses on systems in which many intelligent agents interact with each other These agents are considered to be autonomous entities such as software programs or robots Their interactions can either be cooperative for example as in an ant colony or selfish as in a free market economy This book assumes only basic knowledge of algorithms and discrete maths both of which are taught as standard in the first or second year of computer science degree programmes A basic knowledge of artificial intelligence would be useful to help understand some of the issues but is not essential The book's main aims are To introduce the student to the concept of agents and multi agent systems and the main applications for which they are appropriate To introduce the main issues surrounding the design of intelligent agents To introduce the main issues surrounding the design of a multi agent society To introduce a number of typical applications for agent technology After reading the book the student should understand The notion of an agent how agents are distinct from other software paradigms e.g. objects and the characteristics of applications that lend themselves to agent oriented software The key issues associated with constructing agents capable of intelligent autonomous action and the main approaches taken to developing such agents The key issues in designing societies of agents that can effectively cooperate in order to solve problems including an understanding of the key types of multi agent interactions possible in such systems The main application areas of agent based systems

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An Introduction to Multiagent Systems Michael J. Wooldridge, 2003 This is the first textbook to be explicitly designed for use as a course text for an undergraduate graduate course on multi agent systems Assuming only a basic understanding of computer science this text provides an introduction to all the main issues in the theory and practice of intelligent agents and multi agent systems The companion Web Site includes sample exercises lecture slides and hyperlinks to software referred to in the book Introduces agents explains what agents are how they are constructed and how they can be made to co operate effectively with one another in

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introduction to multiagent systems covering the field in both breadth and depth and treating both theory and practice It is suitable for classroom use or independent study This second edition has been completely revised capturing the tremendous developments in multiagent systems since the first edition appeared in 1999 Sixteen of the book's seventeen chapters were written for this edition all chapters are by leaders in the field with each author contributing to the broad base of knowledge and experience on which the book rests The book covers basic concepts of computational agency from the perspective of both individual agents and agent organizations communication among agents coordination among agents distributed cognition development and engineering of multiagent systems and background knowledge in logics and game theory Each chapter includes references many illustrations and examples and exercises of varying degrees of difficulty The chapters and the overall book are designed to be self contained and understandable without additional material Supplemental resources are available on the book's Web site Contributors Rafael Bordini Felix Brandt Amit Chopra Vincent Conitzer Virginia Dignum J rgen Dix Ed Durfee Edith Elkind Ulle Endriss Alessandro Farinelli Shaheen Fatima Michael Fisher Nicholas R Jennings Kevin Leyton Brown Evangelos Markakis Lin Padgham Julian Padget Iyad Rahwan Talal Rahwan Alex Rogers Jordi Sabater Mir Yoav Shoham Munindar P Singh Kagan Tumer Karl Tuyls Wiebe van der Hoek Laurent Vercouter Meritxell Vinyals Michael Winikoff Michael Wooldridge Shlomo Zilberstein

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been done and invites readers to reflect upon the possibilities of the future **Multiagent System Technologies** Gabriela Lindemann, 2004-09-23 This book constitutes the refereed proceedings of the Second German Conference on Multiagent Systems Technologies MATES 2004 held in Erfurt Germany in September 2004 The 22 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 60 submissions The papers are organized in topical sections on learning and social agents analysis and security negotiation and control agents and software engineering simulation and agents and policies and testing **Handbook of Research on Multi-Agent Systems: Semantics and Dynamics of Organizational Models** Dignum, Virginia, 2009-03-31 This book provide a comprehensive view of current developments in agent organizations as a paradigm for both the modeling of human organizations and for designing effective artificial organizations Provided by publisher

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