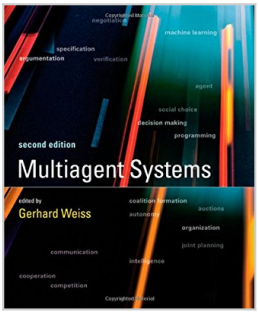

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Multiagent systems are made up of multiple interacting intelligent agents -- computational entities to some degree autonomous and able to cooperate, compete, communicate, act flexibly, and exercise control over their behavior within the frame of their objectives. They are the enabling technology for a wide range of advanced applications relying on distributed and parallel processing of data, information, and knowledge relevant in domains ranging from industrial manufacturing to e-commerce to health care. This book offers a state-of-the-art 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, Jürgen 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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Multiagent Systems (Intelligent Robotics and Autonomous Agents series) From Brand: The MIT Press Bibliography

- Sales Rank: #755498 in Books
- Brand: Brand: The MIT Press
- Published on: 2013-03-08
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 1.25" w x 8.00" l, 4.00 pounds
- Binding: Hardcover
- 920 pages

Editorial Review

Review

...I find M "ultiagent Systems "to be an excellent textbook for an experienced researcher or an advanced student, as well as a great reference tool for anyone interested in the field. I also want to emphasize once again the enormous scope of the book -- to the best of my knowledge there is no comparable book on the market -- it is as comprehensive as a book on multiagent systems can get without becoming more than one book.--Piotr Kazmierczak "Kunstliche Intelligenz ""

About the Author
Gerhard Weiss is Professor and Chair of the Department of Knowledge Engineering at Maastricht University, the Netherlands.

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