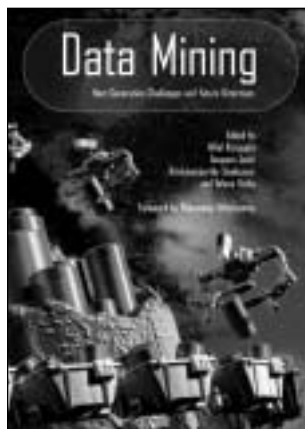




AAAI Press
2005 Catalog

New AAAI Press Books



Data Mining: Next Generation Challenges and Future Directions

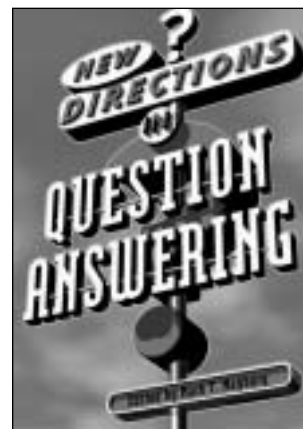
*Edited by Hillol Kargupta, Anupam Joshi,
Krishnamoorthy Sivakumar and Yelena Yesha*

Data mining, or knowledge discovery, has become an indispensable technology for businesses and researchers in many fields. Drawing on work in such areas as statistics, machine learning, pattern recognition, databases, and high performance computing, data mining extracts useful information from the large data sets now available to industry and science. This collection surveys the most recent advances in the field and charts directions for future research.

The first part looks at pervasive, distributed, and stream data mining, discussing topics that include distributed data mining algorithms for new application areas, several aspects of next-generation data mining systems and applications, and detection of recurrent patterns in digital media. The second part considers data mining, counter-terrorism, and privacy concerns, examining such topics as biosurveillance, marshalling evidence through data mining, and link discovery. The third part looks at scientific data mining; topics include mining temporally-varying phenomena, data sets using graphs, and spatial data mining. The last part considers web, semantics, and data mining, examining advances in text mining algorithms and software, semantic webs, and other subjects.

ISBN 0-262-61203-8
\$40.00 softcover

576 pp., index.
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New Directions in Question Answering

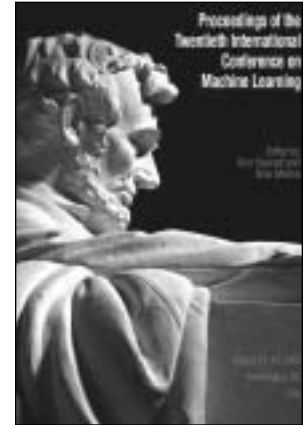
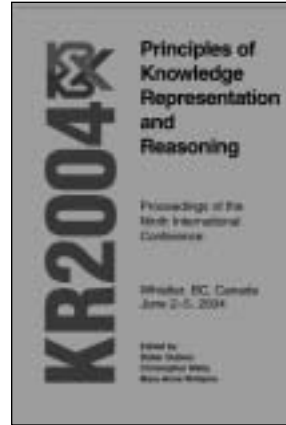
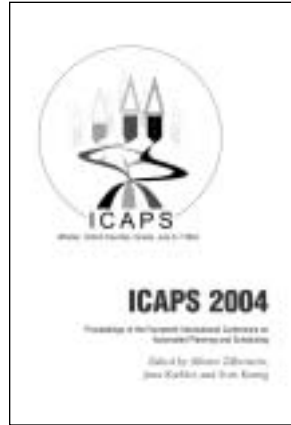
Edited by Mark Maybury

Question answering systems, which provide natural language responses to natural language queries, are the subject of rapidly advancing research encompassing both academic study and commercial applications, the most well-known of which is the search engine Ask Jeeves. Question answering draws on different fields and technologies, including natural language processing, information retrieval, explanation generation, and human computer interaction. Question answering creates an important new method of information access and can be seen as the natural step beyond such standard Web search methods as keyword query and document retrieval. This collection charts significant new directions in the field, including temporal, spatial, definitional, biographical, multimedia, and multilingual question answering. After an introduction that defines essential terminology and provides a roadmap to future trends, the book covers key areas of research and development. These include current methods, architecture requirements, and the history of question answering on the Web; the development of systems to address new types of questions; interactivity, which is often required for clarification of questions or answers; reuse of answers; advanced methods; and knowledge representation and reasoning used to support question answering. Each section contains an introduction that summarizes the chapters included and places them in context, relating them to the other chapters in the book as well as to the existing literature in the field and assessing the problems and challenges that remain.

ISBN 0-262-63304-3
\$40.00 softcover

352 pp., index.
Copublished by The MIT Press

New & Recent Proceedings



Proceedings of the Nineteenth National Conference on Artificial Intelligence, Sixteenth Conference on Innovative Applications of Artificial Intelligence

The National Conference on Artificial Intelligence remains the bellwether for research in artificial intelligence. Leading AI researchers and practitioners as well as scientists and engineers in related fields present theoretical, experimental, and empirical results, covering a broad range of topics.

ISBN 0-262-51183-5 1050 pp., illus., references, index
\$85.00 softcover Copublished by The MIT Press

Proceedings of the Fourteenth International Conference on Automated Planning and Scheduling

*Edited by Shlomo Zilberstein, Jana Koehler,
and Sven Koenig*

The International Conference on Automated Planning and Scheduling (ICAPS) cover the full spectrum of topics in AI planning and scheduling, presenting the last advances both theoretical and empirical in the field. This year, some emphasis lies on planning with incomplete information, and on applications of planning and scheduling.

ISBN 1-57735-200-9 450 pp., illus., bibliography, index
\$65.00 softcover

Principles of Knowledge Representation and Reasoning: Proceedings of the Ninth International Conference (KR2004)

*Edited by Didier Dubois, Christopher Welty,
and Mary-Anne Williams*

The Knowledge Representation (KR) conferences have established themselves as the leading forum for timely, in-depth presentation of progress in the theory and principles underlying the representation and computational manipulation of knowledge. The papers in this volume cover a wide range of topics, including representation formalisms; reasoning techniques; implemented KR&R systems; significant applications to cognitive robotics, planning, conceptual modeling, decision-making, software engineering, querying large databases, and web technologies.

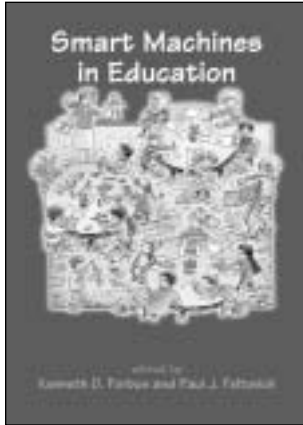
ISBN 1-57735-201-7 800 pp., illus., references, index
\$75.00 softcover

Proceedings of the Twentieth International Conference on Machine Learning (ICML-03)

Edited by Tom Fawcett and Nina Mishra

ISBN 0-1-57735-189-4 1000 pp., illus., references, index
\$75.00 softcover Published on demand.

Recently Published



Smart Machines in Education

Edited by Kenneth D. Forbus and Paul J. Feltovich

Multimedia, simulation, computer-mediated communication networks, and distance learning have all become part of the educational toolkit. The next major technology to change the face of education will be based on the widespread use of artificial intelligence (AI). Progress in AI has led to a deeper understanding of how to represent knowledge, to reason, and to describe procedural knowledge. Progress in cognitive science has led to a deeper understanding of how people think, solve problems, and learn. AI scientists use results from cognitive science to create software with more humanlike abilities, which can help students learn better.

This book looks at some of the results of this synergy among AI, cognitive science, and education. Examples include virtual students whose misconceptions force students to reflect on their own knowledge, intelligent tutoring systems, and speech recognition technology that helps students learn to read. Some of the systems described are already used in classrooms and have been evaluated; a few are still laboratory efforts. The book also addresses cultural and political issues involved in the deployment of new educational technologies.

ISBN 0-262-56141-7
\$48.00 softcover

500 pp, index.
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Dynamics of Organizations

**Computational Modeling and
Organizational Theories**

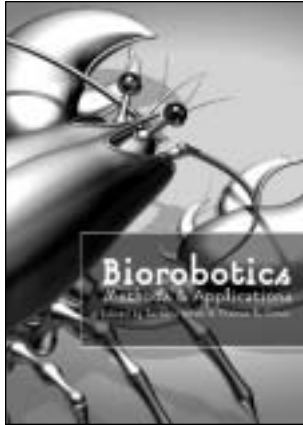
Edited by Alessandro Lomi and Erik R. Larsen

An organization is more than the sum of its parts, and the individual components that function as a complex social system can be understood only by analyzing their collective behavior. This book shows how state-of-the-art simulation methods, including genetic algorithms, neural networks, and cellular automata, can be brought to bear on central problems of organizational theory related to the emergence, permanence, and dissolution of hierarchical macrostructures. The emphasis is on the application of a new generation of equation- and agent-based computational models that can help students of organizations to reformulate their basic research questions starting from assumptions about how to link—rather than separate—different levels of organizational analysis.

ISBN 0-262-62152-5
\$42.00 softcover

525 pp., index.
Copublished by The MIT Press

Recently Published



Biorobotics **Methods and Applications**

Edited by Barbara Webb and Thomas R. Consi

Animal-like robots are playing an increasingly important role as a link between the worlds of biology and engineering. The new, multidisciplinary field of biorobotics provides tools for biologists studying animal behavior and testbeds for the study and evaluation of biological algorithms for potential engineering applications. This book focuses on the role of robots as tools for biologists.

An animal is profoundly affected by the many subtle and complex signals within its environment, and because the animal invariably disturbs its environment, it constantly creates a new set of stimuli. Biorobots are now enabling biologists to understand these complex animal-environment relationships. This book unites scientists from diverse disciplines who are using biorobots to probe animal behavior and brain function. The first section describes the sensory systems of biorobotic crickets, lobsters, and ants and the visual system of flies. The second section discusses robots with cockroach motor systems and the intriguing question of how the evolution of complex motor abilities could lead to the development of cognitive functions. The final section discusses higher brain function and neural modeling in mammalian and humanoid robots.

ISBN 0-262-73141-X
\$45.00 softcover

300 pp., index.
Copublished by The MIT Press



Safe and Sound **Artificial Intelligence in Hazardous Applications**

By John Fox and Subrata Das

Computer science and artificial intelligence are increasingly used in the hazardous and uncertain realms of medical decision making, where small faults or errors can spell human catastrophe. This book describes, from both practical and theoretical perspectives, an AI technology for supporting sound clinical decision making and safe patient management. The technology combines techniques from conventional software engineering with a systematic method for building intelligent agents. Although the focus is on medicine, many of the ideas can be applied to AI systems in other hazardous settings. The book also covers a number of general AI problems, including knowledge representation and expertise modeling, reasoning and decision making under uncertainty, planning and scheduling, and the design and implementation of intelligent agents.

The book, written in an informal style, begins with the medical background and motivations, technical challenges, and proposed solutions. It then turns to a wide-ranging discussion of intelligent and autonomous agents, with particular reference to safety and hazard management. The final section provides a detailed discussion of the knowledge representation and other aspects of the agent model developed in the book, along with a rigorous formal treatment of the model.

ISBN 0-262-06211-9
\$48.00 hardcover

326 pp., illus., bibliography, index
Copublished by The MIT Press

Edited Collections



Natural Language Processing and Knowledge Representation

Language for Knowledge and Knowledge for Language

Edited by Lucja M. Iwańska and Stuart C. Shapiro

Natural language refers to human language—complex, irregular, diverse, with all its philosophical problems of meaning and context. Setting a new direction in AI research, this book explores the development of knowledge representation and reasoning systems that take seriously the role of natural language in human information and knowledge processing.

Traditionally, knowledge representation and reasoning systems have incorporated natural language as interfaces to expert systems or knowledge bases that performed tasks separate from natural language processing. As this book shows, however, the computational nature of representation and inference in natural language makes it the ideal model for all tasks in an intelligent computer system. Natural language processing combines the qualitative characteristics of human knowledge processing with a computer's quantitative advantages, allowing for an in-depth, systematic processing of vast amounts of information. The essays in this interdisciplinary book cover a range of implementations and designs, from formal computational models to large-scale natural language processing systems.

ISBN 0-262-59021-2
\$48.00 softcover

470 pp., illus., bibliography, index
Copublished by The MIT Press



Advances in Distributed and Parallel Knowledge Discovery

Edited by Hillol Kargupta and Philip Chan

Knowledge discovery and data mining (KDD) deals with the problem of extracting interesting associations, classifiers, clusters, and other patterns from data. The emergence of network-based distributed computing environments has introduced an important new dimension to this problem—distributed sources of data. Traditional centralized KDD typically requires central aggregation of distributed data, which may not always be feasible because of limited network bandwidth, security concerns, scalability problems, and other practical issues. Distributed knowledge discovery (DKD) works with the merger of communication and computation by analyzing data in a distributed fashion. This technology is particularly useful for large heterogeneous distributed environments such as the Internet, intranets, mobile computing environments, and sensor-networks. When the datasets are large, scaling up the speed of the KDD process is crucial. Parallel knowledge discovery (PKD) techniques address this problem by using high performance multi-processor machines. This book presents introductions to DKD and PKD, extensive reviews of the field, and state-of-the-art techniques.

ISBN 0-262-61155-4
\$55.00 softcover

472 pp., illus., bibliography, index
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Edited Collections



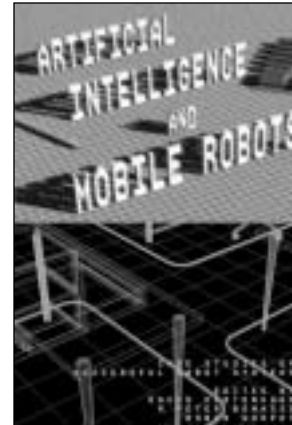
Software Agents

Edited by Jeffrey M. Bradshaw

Following introductory pieces authored by well-known proponents (and a critic) of agent approaches, this book contains a set of chapters describing how agents have been used to enhance learning and provide intelligent assistance to users in situations where direct manipulation interfaces alone are insufficient. It also contains writings detailing various approaches to agent-to-agent communication and agent mobility, as well as the use of agents to provide intelligent interoperability between loosely-coupled components of distributed systems.

The chapters are authored by the leading researchers and developers of agent-based systems. They not only summarize the state-of-the-art, but point the way in which standards and products incorporating agent technology are likely to evolve over the next few years. Because of the wide variety of issues and approaches addressed, this resource is ideal for classroom use as well as computing professionals. Because the book describes basic concepts and implementations without resorting to mathematical or overly technical terms, it will also be suitable for many noncomputing professionals who are interested in a survey of this rapidly growing field.

ISBN 0-262-52234-9 490 pp., illus., bibliography, index
\$50.00 softcover Copublished by The MIT Press



Artificial Intelligence and Mobile Robots

Case Studies of Successful Robot Systems

*Edited by David Kortenkamp, R. Peter Bonasso,
and Robin Murphy*

This book contains thirteen case studies of successful mobile robot systems representing the best available implementations by leading universities and research laboratories. These are not robots that simply work in the laboratory under constrained conditions. They have left the lab and been tested in natural and unknown environments. Many common themes are apparent throughout the book including navigation and mapping, computer vision, and architecture. Each case study is self-contained and describes a complete robot system, including detailed descriptions of important algorithms, and pseudo-code. This book serves as a recipe book for designing successful mobile robot applications. The final case studies in this book describe an approach to using mobile robots in the classroom.

ISBN 0-262-61137-6 400 pp., illus., bibliography, index
\$50.00 softcover Copublished by The MIT Press

Edited Collections



Understanding Music with AI Perspectives on Music Cognition

*Edited by Mira Balaban,
Kemal Ebcioglu, and Otto Lasko*

This “book addresses itself to four different communities: the professional musician, the professional music technologist and designer of music systems, the professional AI researcher, and the professional cognitive scientist and cognitive psychologist. ... It goes without saying that the book also addresses itself to teachers of music. The book could serve as a textbook for a course introducing questions of musical problem solving and performance, as well as the nature of musical knowledge and of theories of music. ... The book should [also] be of benefit to readers generally interested in the relationship of music and technology.”

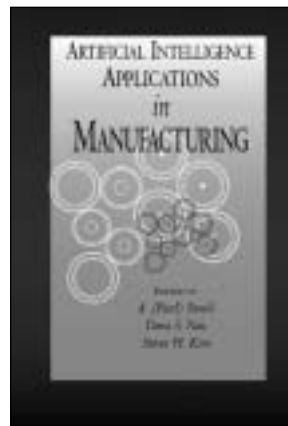
ISBN 0-262-52170-9 550 pp., illus., references, index
\$65.00 softcover Copublished by The MIT Press

Readings from the *AI Magazine*, Volumes 1-5

Edited by Robert Englemore

Readings from the *AI Magazine* is a compilation of all the articles that appeared in the serial during *AI Magazine*'s first five years of publication. Within this 650 page plus indexed volume, you will find articles on AI written by the foremost practitioners in the field—articles that earned *AI Magazine* the title “journal of record for the artificial intelligence community.”

ISBN 0-262-51032-4 677 pp., illus., references, index
\$50.00 (CD) Available on CD only from AAAI

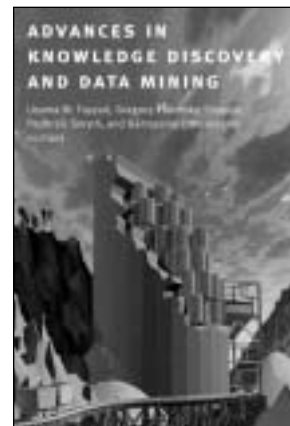


AI Applications in Manufacturing

*Edited by A. Fazel Famili, Dana S. Nau,
and Steven H. Kim*

This book presents a number of notable applications of AI in manufacturing that relate directly or indirectly to the enhancement of planning and decision making capabilities in today's automated production environments. The book is intended as a reference for senior undergraduate and graduate students interested in the applications of AI in production and should also be of interest to practitioners in industry, researchers in universities, or developers in research institutes.

ISBN 0-262-56066-6 469 pp., illus., references, index
\$52.00 softcover Copublished by The MIT Press



Advances in Knowledge Discovery and Data Mining

*Edited by Usama M. Fayyad, Gregory Piatetsky-Shapiro,
Padhraic Smyth, and Ramasamy Uthurusamy*

Advances in data collection, widespread use of bar codes, and the computerization of many transactions have flooded us with information and generated an urgent need for techniques and tools that can intelligently and automatically assist us in transforming this data into useful knowledge. This book examines and describes many such new techniques and tools in the field of data mining and knowledge discovery in databases. The chapters in this book span fundamental issues of knowledge discovery, classification and clustering, trend and deviation analysis, dependency derivation, integrated discovery systems, augmented database systems, and application case studies.

ISBN 0-262-56097-6 625 pp., illus., references, index
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Edited Collections

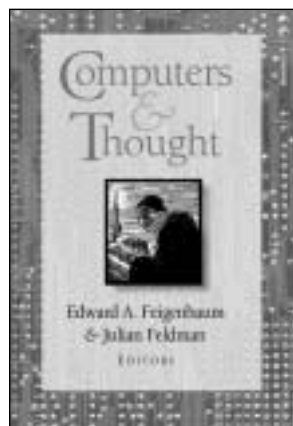


Expertise in Context Human and Machine

*Edited by Paul J. Feltovich, Kenneth M. Ford,
and Robert R. Hoffman*

The twenty-three essays in this volume discuss the essential nature of expert knowledge, as well as such questions such as how “expertise” differs from mere “knowledge,” the relation between the individual and group processes involved in knowledge in general and expertise in particular, the social and other contexts of expertise, how expertise can be assessed, and the relation between human and computer expertise.

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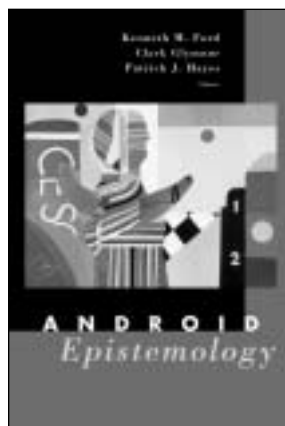


Computers and Thought

Edited by Edward A. Feigenbaum and Julian Feldman

Computers and Thought showcases the work of the scientists who not only defined the field of AI, but who are responsible for having developed it into what it is today. Originally published in 1963, this collection includes twenty classic papers by such pioneers as A. M. Turing and Marvin Minsky who were behind the pivotal advances in artificially simulating human thought processes with computers.

ISBN 0-262-56092-5 560 pp., illus., bibliography, index
\$42.00 softcover Copublished by The MIT Press



Android Epistemology

*Edited by Kenneth M. Ford, Clark Glymour,
and Patrick J. Hayes*

Android Epistemology addresses the need to explore the space of possible machines and their capacities for knowledge, beliefs, attitudes, desires, and for action in accord with their mental states. It approaches artificial intelligence and cognitive psychology as a unified endeavor, with AI focused on possible ways of engineering intelligence and cognitive science on reverse engineering a particular intelligent system. The sixteen essays are by computer scientists and philosophers. Some propose contributions to android epistemology; the majority, however, offer arguments for or against the very notion.

ISBN 0-262-06184-8 336 pp., illus., references, index
\$50.00 (CD) Available on CD only from AAAI



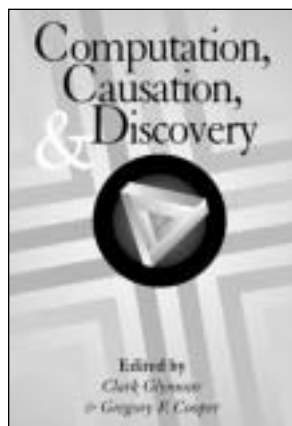
Diagrammatic Reasoning Cognitive and Computational Perspectives

*Edited by Janice Glasgow, N. Hari Narayanan,
and B. Chandrasekaran. Foreword by Herbert Simon*

Understanding “diagrammatic thinking will be of special importance to those who design human-computer interfaces, where the diagrams presented on computer screens must find their way to the Mind’s Eye. . . . In a society that is preoccupied with ‘information superhighways,’ a deep understanding of diagrammatic reasoning will be essential to keep the traffic moving.”

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Edited Collections



Computation, Causation, and Discovery

Edited by Clark Glymour and Gregory F. Cooper, M.D.

Anywhere data are used in prediction, problems of causal discovery often arise. Causal discovery concerns learning how to predict those changes to some features of a system that will result if an intervention changes other features. This book is about that difficult problem. The contributors discuss recent research and applications using Bayes nets or directed graphic representations, including representations of feedback or “recursive” systems. The book contains a thorough discussion of foundational issues, algorithms, proof techniques, and applications to economics, physics, biology, educational research, and other areas.

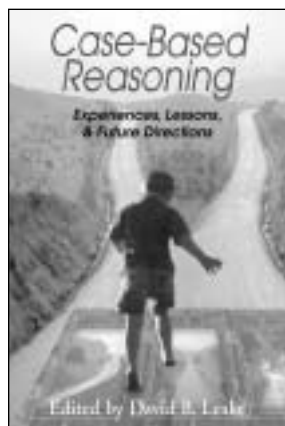
ISBN 0-262-57124-2 426 pp., illus., bibliography, index
\$55.00 softcover Copublished by The MIT Press

Massively Parallel Artificial Intelligence

Edited by Hiroaki Kitano and James A. Hendler

Massively parallel computers allow AI to expand in exciting new ways by taking advantage of research in neuroscience and developing new models and paradigms, among them associate memory, neural networks, genetic algorithms, artificial life, society-of-mind models, and subsumption architectures.

ISBN 0-262-61102-3 440 pp., illus., references, index
\$52.00 softcover Copublished by The MIT Press



Case-Based Reasoning

Experiences, Lessons, and Future Directions

Edited by David B. Leake

This book provides a vision of the present and a challenge for the future of case-based reasoning research and applications. It includes chapters addressing fundamental issues and approaches in indexing and retrieval, situation assessment and similarity assessment, and in case adaptation. Those chapters provide a “case-based” view of key problems and solutions in context of the tasks for which they were developed. It also presents lessons learned about how to design CBR systems and how to apply them to real-world problems. The final chapters include a perspective on the state of the field and the most important directions for future impact.

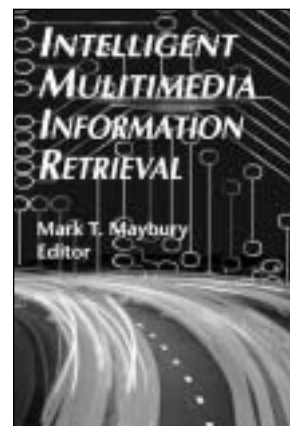
ISBN 0-262-62110-X 435 pp., illus., bibliography, index
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Intelligent Multimedia Information Retrieval

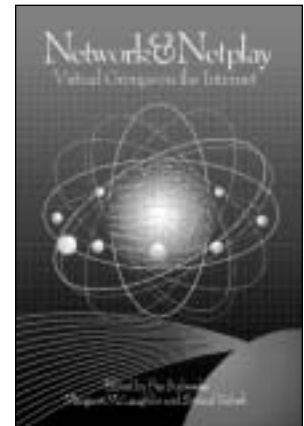
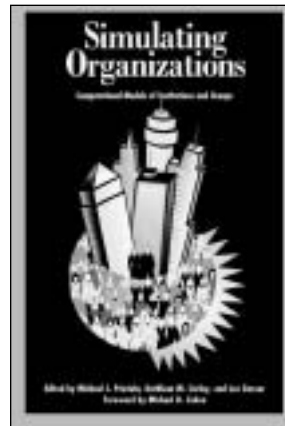
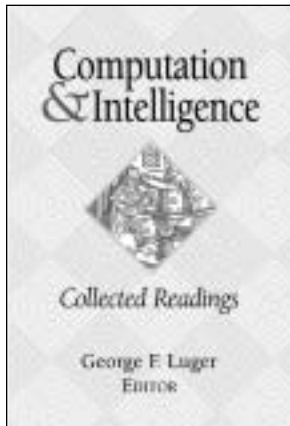
Edited by Mark T. Maybury

Providing machines with the ability to interpret, generate, and support interaction with multimedia artifacts will be a valuable facility for a number of key applications such as video teleconference archiving and custom on-line news. These media facilities, in turn, may support tasks ranging from training to information analysis to decision support. This edited collection addresses fundamental issues in multimedia processing, including content-based retrieval of graphics, audio, imagery, and video; intelligent hypermedia access, and empirical studies.

ISBN 0-262-63179-2 511 pp., illus., references, index
\$55.00 softcover Copublished by The MIT Press



Edited Collections



Computation and Intelligence

Collected Readings

Edited by George F. Luger

This comprehensive collection of twenty-nine readings covers artificial intelligence from its historical roots to current research directions and practice. With its helpful critique of the selections, extensive bibliography, and clear presentation of the material, *Computation and Intelligence* will be a useful adjunct to any course in AI as well as a handy reference for professionals in the field.

ISBN 0-262-62101-0 747 pp., illus., bibliography, index
\$65.00 softcover Copublished by The MIT Press

Intelligent Multimedia Interfaces

Edited by Mark T. Maybury

In this book, editor Mark Maybury has chosen work that specifically focuses on intelligent interfaces that exploit multiple media and modes to facilitate human-computer communication. Included are chapters presenting methods for the automatic design of multimedia presentations, several investigations into systems that integrate multimedia input and generate coordinated multimedia output, and knowledge sources and processes required for processing multiple media.

ISBN 0-262-63150-4 411 pp., illus., references, index
\$58.00 softcover Copublished by The MIT Press

Simulating Organizations

Computational Models of Institutions and Groups

*Edited by Michael Prietula,
Kathleen Carley, and Les Gasser*

Computational organization theory is the articulation of an organization theory in the form of a computer program. This volume adds forceful new evidence that computational modeling of organization is experiencing a sudden burst of new vitality and maturation. Object-oriented methodology now underlies many of the systems being developed, and ideas from the field of distributed artificial intelligence are directly in evidence in many of the chapters.

ISBN 0-262-66108-x 267 pp., illus., bibliography, index
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Network and Netplay

Virtual Groups on the Internet

*Edited by Fay Sudweeks, Margaret L. McLaughlin,
and Sheizaf Rafaeli*

In global "neighborhoods," people congregate and meet in chat rooms and discussion groups, conversing on topics from auto mechanics to zoology. The fifteen essays in this book examine these global neighborhoods in detail and explores their implications.

ISBN 0-262-69206-6 333 pp., illus., bibliography, index
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The AAI National Conference

AAAI-2005/IAAI-2005—Pittsburgh, Pennsylvania

Proceedings of the Twentieth National Conference on Artificial Intelligence and The Seventeenth Annual Conference on Innovative Applications of Artificial Intelligence

Available in August in CD-ROM only from AAI

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AAAI-2002/IAAI-2002—Edmonton, Alberta, Canada

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AAAI-99/IAAI-99—Orlando, Florida

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Proceedings of the Fifteenth National Conference on Artificial Intelligence and The Tenth Annual Conference on Innovative Applications of Artificial Intelligence

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Proceedings of the Thirteenth National Conference on Artificial Intelligence and The Eighth Annual Conference on Innovative Applications of Artificial Intelligence

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AAAI-94—Seattle, Washington

Proceedings of the Twelfth National Conference on Artificial Intelligence

*ISBN 0-262-51078-2, 1, 527 pp., 2 volumes, index, \$100.00 softcover

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Proceedings of the Eleventh National Conference on Artificial Intelligence

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AAAI-92—San Jose, California

Proceedings of the Tenth National Conference on Artificial Intelligence

Available in CD only 892 pp., index, \$50.00

AAAI-91—Anaheim, California

Proceedings of the Ninth National Conference on Artificial Intelligence

*ISBN 0-262-51059-6, 955 pp., 2 volumes, index, \$100.00 softcover

AAAI-90—Boston, Massachusetts

Proceedings of the Eighth National Conference on Artificial Intelligence

*ISBN 0-262-51057-X, 1166 pp., 2 volumes, index, \$100.00 softcover

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AAAI-88—St. Paul, Minnesota

Proceedings of the Seventh National Conference on Artificial Intelligence

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AAAI-86—Philadelphia, Pennsylvania

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*ISBN 0-262-51054-5, 1, 197 pp., 2 volumes, index, \$100.00 softcover

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