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.

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New Directions in Question Answering

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.

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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
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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
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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
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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
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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 0-262-56141-7 500 pp., index.
$48.00 softcover Copublished by The MIT Press

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 0-262-62152-5 525 pp., index.
$42.00 softcover Copublished by The MIT Press
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.

$45.00 softcover Copublished by The MIT Press

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 0-262-06211-9 326 pp., illus., bibliography, index
$48.00 hardcover Copublished by The MIT Press
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 0-262-59021-2 470 pp., illus., bibliography, index
$48.00 softcover
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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 0-262-61155-4 472 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
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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 pseudocode. 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.

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« 7 »
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Understanding Music with AI
Perspectives on Music Cognition
Edited by Mira Balaban, Kemal Ebcioglu, and Otto Laske
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
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AI Applications in Manufacturing
Edited by A. Fazl 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
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Readings from the AI Magazine, Volumes 1-5
Edited by Robert Engelmore
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
$65.00 softcover Available on CD only from AAAI

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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The twenty-three essays in this volume discuss the essential nature of expert knowledge, as well as such questions 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.

ISBN 0-262-56110-7 590 pp., illus., references, index
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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.

426 pp., illus., bibliography, index
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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.

435 pp., illus., bibliography, index
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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 associative memory, neural networks, genetic algorithms, artificial life, society-of-mind models, and subsumption architectures.

440 pp., illus., references, 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.

511 pp., illus., references, index
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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.

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.

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.

Network and Netplay
Virtual Groups on the Internet
Edited by Fay Sudweeks, Margaret L. McLaughlin, and Shlafz 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.
BOOKS IN THE INNOVATIVE APPLICATIONS OF ARTIFICIAL INTELLIGENCE (IAAI) SERIES REPORT ON THE NATURE AND RANGE OF REAL-WORLD PROBLEMS THAT AI TECHNOLOGY CAN ADDRESS SUCCESSFULLY TODAY. ALL OF THE CONTRIBUTIONS IN THESE BOOKS HAVE A PRACTICAL SLANT, SHOWING HOW AI HAS BEEN SUCCESSFULLY APPLIED TO A WIDE SPECTRUM OF DOMAINS AND TASKS. THEY PROVIDE AN EXCELLENT SAMPLING OF THE TYPES OF APPLICATIONS COMING ON LINE.
Innovative Applications of AI

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The International Conference on AI Planning and Scheduling has evolved into the premier forum for researchers and practitioners in planning and scheduling. In recent years, artificial intelligence planning and scheduling have emerged as technologies critical to production management, space systems, the Internet, etc.

In 2003, this conference merged with the European Conference on Planning (ECP). The resulting conference was called The International Conference on Automated Planning and Scheduling (ICAPS). Although the conference was first held in 2003, new conference continues the numbering of the two conferences that preceded it. Thus the thirteenth conference is the first to bear the new conference name.

ICAPS-05—Monterey, California
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ISBN 0-929280-56-3 360 pp., index, $65.00 softcover

AIPS-96 Supplement—Edinburgh, Scotland
Advanced Planning Technology: Technological Achievements of the ARPA/Rome Laboratory Planning Initiative
Edited by Austin Tate
This volume presents the range of technological results that have been achieved with the ARPA/Rome Laboratory Planning Initiative. Five lead articles introduce the program and its structure and explain how the more mature results of individual projects are transferred through technology integration experiments to fielded applications. The main body comprises one paper from each group or project within ARPI.
ISBN 0-929280-98-9 233 pp., index, $65.00 softcover
As an interdisciplinary field, KDD has made important strides by generating cross-fertilization of ideas between individual disciplines. In keeping with this theme, KDD-98 was collocated with the Conference on Very Large Databases with the goal of catalyzing discussions and interactions between researchers in the two fields. Paper topics in this proceedings include theory and foundational issues in KDD, data mining methods and algorithms, database-centric data mining, and KDD process and human interaction applications.

ISBN 1-57735-070-7  392 pp., index, $75.00 softcover

The rapid growth of data and information has created a need and an opportunity for extracting knowledge from databases, and researchers and application developers have been responding to that need. The papers in this volume reflect the research in knowledge discovery in databases (KDD)—also referred to as “data mining”—being conducted by researchers in machine discovery, statistics, databases, knowledge acquisition, machine learning, data visualization, high performance computing, and knowledge-based systems and describe KDD applications in areas such as astronomy, biology, finance, insurance, marketing, and medicine.

ISBN 1-57735-027-8  320 pp., index, $75.00 softcover

Responding to the need to turn their rapidly expanding data stores into accessible and actionable knowledge, researchers from fields such as pattern recognition, statistics, artificial intelligence, very large databases, and visualization are developing tools and techniques to discover knowledge from large, complex data stores. These researchers share a set of core issues: representation of discovered knowledge, search complexity, the use of prior knowledge, statistical inference, algorithms that scale to analysis of massive amounts of data both in size and dimensionality, managing uncertainty, and interactive (human-oriented) presentation. The papers in this proceedings represent the current state of the art and state of practice in each of the various disciplines comprising KDD.

ISBN 1-57735-004-9  405 pp., index, $75.00 softcover

The papers in this proceedings focus on unifying themes such as the use of domain knowledge, managing uncertainty, interactive (human-oriented) presentation, and applications.

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Conference and Workshop Proceedings

AI and Manufacturing Workshops
SIGMAN-98—Albuquerque, New Mexico

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The Proceedings covers a broad spectrum of perspectives, including communications issues and negotiation strategies.
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ICMAS-95—San Francisco, California

Proceedings of the First International Conference on Multiagent Systems
Edited by Victor Lesser and Les Gasser
The Proceedings cover a broad spectrum of perspectives including communications issues, and negotiation strategies.
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<table>
<thead>
<tr>
<th>Article Title</th>
<th>Description</th>
<th>Authors/Chair(s)</th>
<th>ISBN</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1-57735-107-x</td>
<td>105</td>
<td>$30.00</td>
</tr>
<tr>
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<td>90</td>
<td>$30.00</td>
</tr>
<tr>
<td>Agent-Based Technologies for B2B Electronic Commerce</td>
<td>Papers from the AAAI Workshop</td>
<td>M. Brian Blake, Program Chair</td>
<td>1-57735-154-1</td>
<td>48</td>
<td>$25.00</td>
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<tr>
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<td>Papers from the AAAI Spring Symposium</td>
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<td>187</td>
<td>$35.00</td>
</tr>
<tr>
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<td>Papers from the AAAI Workshop</td>
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<td>$30.00</td>
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<tr>
<td>Agent Organizations: Theory and Practice</td>
<td>Papers from the AAAI Workshop</td>
<td>Virginia Dignum, Daniel Corkill, Catholijn Jonker, and Frank Dignum, Program Cochair</td>
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<td>$30.00</td>
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<tr>
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<td>$25.00</td>
</tr>
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<td>Papers from the AAAI Spring Symposium</td>
<td>David Musliner and Barney Pell, Program Cochair</td>
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<td>$30.00</td>
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<tr>
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<td>Papers from the AAAI Workshop</td>
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<td>$30.00</td>
</tr>
<tr>
<td>Anchoring Symbols to Sensor Data in Single and Multiple Robot Systems</td>
<td>Papers from the AAAI Fall Symposium</td>
<td>Silvia Coradeschi and Alessandro Saffiotti, Program Cochair</td>
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<td>$30.00</td>
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<tr>
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<td>$35.00</td>
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<tr>
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<td>$35.00</td>
</tr>
<tr>
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<td>Papers from the AAAI Spring Symposium</td>
<td>Jennifer Chu-Carroll and Nancy Green, Program Cochair</td>
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<td>128</td>
<td>$30.00</td>
</tr>
<tr>
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<td>Papers from the AAAI Spring Symposium</td>
<td>Eva Hudlicka, and Lola Cañamero, Program Cochair</td>
<td>1-57735-194-0</td>
<td>162</td>
<td>$30.00</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Title</th>
<th>Event Description</th>
<th>Program Chairs</th>
<th>Report Number</th>
<th>Pages</th>
<th>ISBN</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case-Based Reasoning and Information Retrieval: Exploring Opportunities for Technology Sharing</td>
<td>Papers from the AAAI Spring Symposium</td>
<td>Peter Anick and Evangelos Simoudis, Program Cochairs</td>
<td>SS-93-07</td>
<td>145</td>
<td>0-929280-45-8</td>
<td>$30.00</td>
</tr>
<tr>
<td>Case-Based Reasoning Integrations</td>
<td>Papers from the AAAI Workshop</td>
<td>David Aha and Jody J. Daniels, Program Cochairs</td>
<td>WS-98-15</td>
<td>177</td>
<td>1-57735-068-5</td>
<td>$35.00</td>
</tr>
<tr>
<td>Challenges in Game Artificial Intelligence</td>
<td>Papers from the AAAI Workshop</td>
<td>Dan Fu, Stottler Henke, and Jeff Orkin, Program Cochairs</td>
<td>WS-04-04</td>
<td>154</td>
<td>1-57735-205-x</td>
<td>$35.00</td>
</tr>
<tr>
<td>Chance Discovery: The Discovery and Management of Chance Events</td>
<td>Papers from the AAAI Fall Symposium</td>
<td>Yukio Ohsawa, Peter McBurney, and Simon Parsons, Program Cochairs</td>
<td>FS-02-01</td>
<td>122</td>
<td>1-57735-172-x</td>
<td>$30.00</td>
</tr>
<tr>
<td>Coalition Formation in Dynamic Multiagent Environments</td>
<td>Papers from the AAAI Workshop</td>
<td>Leen-Kiat Soh, Program Chair</td>
<td>WS-02-04</td>
<td>67</td>
<td>1-57735-157-6</td>
<td>$25.00</td>
</tr>
<tr>
<td>Cognitive and Computational Models of Spatial Representation</td>
<td>Papers from the AAAI Spring Symposium</td>
<td>Patrick Olivier, Program Chair</td>
<td>SS-96-03</td>
<td>109</td>
<td>1-57735-005-7</td>
<td>$30.00</td>
</tr>
<tr>
<td>Cognitive Robotics I</td>
<td>Papers from the AAAI Fall Symposium</td>
<td>Giuseppe De Giacomo, Program Chair</td>
<td>FS-98-02</td>
<td>144</td>
<td>1-57735-076-6</td>
<td>$30.00</td>
</tr>
<tr>
<td>Cognitive Robotics II</td>
<td>Papers from the AAAI Workshop</td>
<td>Chitta Baral and Sheila M d’Iralth, Program Cochairs</td>
<td>WS-02-05</td>
<td>124</td>
<td>1-57735-158-4</td>
<td>$30.00</td>
</tr>
<tr>
<td>Collaborative Learning Agents</td>
<td>Papers from the AAAI Spring Symposium</td>
<td>Kagan Tumer and Peter Stone, Program Cochairs</td>
<td>SS-02-02</td>
<td>132</td>
<td>1-57735-147-9</td>
<td>$30.00</td>
</tr>
<tr>
<td>Compositional Connectionism in Cognitive Science</td>
<td>Papers from the AAAI Fall Symposium</td>
<td>Simon D. Levy and Ross Gayler, Program Cochairs</td>
<td>FS-04-03</td>
<td>98</td>
<td>1-57735-214-9</td>
<td>$30.00</td>
</tr>
<tr>
<td>Computational Synthesis: From Basic Building Blocks to High Level Functionality</td>
<td>Papers from the AAAI Spring Symposium</td>
<td>Hod Lipson, Erik K. Antonsson, and John R. Koza, Program Cochairs</td>
<td>SS-03-02</td>
<td>301</td>
<td>1-57735-179-7</td>
<td>$40.00</td>
</tr>
<tr>
<td>Computation with Neural Systems</td>
<td>Papers from the AAAI Workshop</td>
<td>Victoria Hodge and Jim Austin, Program Cochairs</td>
<td>WS-99-04</td>
<td>63</td>
<td>1-57735-088-x</td>
<td>$25.00</td>
</tr>
<tr>
<td>Computational Models for Mixed Initiative Interaction</td>
<td>Papers from the AAAI Spring Symposium</td>
<td>Susan Haller and Susan M cRoy, Program Cochairs</td>
<td>SS-97-04</td>
<td>170</td>
<td>1-57735-037-5</td>
<td>$30.00</td>
</tr>
<tr>
<td>Computational Organization Design</td>
<td>Papers from the AAAI Spring Symposium</td>
<td>Ingemar Hulthage, Program Chair</td>
<td>SS-94-07</td>
<td>188</td>
<td>0-929280-80-6</td>
<td>$35.00</td>
</tr>
<tr>
<td>Conference Title</td>
<td>Conference Type</td>
<td>Program Chair(s)</td>
<td>Technical Report</td>
<td>ISBN</td>
<td>Pages</td>
<td>Price</td>
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<td>Configuration</td>
<td>AAAI Workshop</td>
<td>Boi Faltings, Eugene C. Freuder, Gerhard Friedrich, and Alexander Felfernig, Program Cochairs</td>
<td>Technical Report WS-99-05</td>
<td>1-57735-089-8</td>
<td>150</td>
<td>$30.00</td>
</tr>
<tr>
<td>Configuration</td>
<td>AAAI Fall Symposium</td>
<td>Boi Faltings and Eugene Freuder, Program Cochairs</td>
<td>Technical Report FS-96-03</td>
<td>1-57735-018-9</td>
<td>154</td>
<td>$30.00</td>
</tr>
<tr>
<td>Constraints and Agents</td>
<td>AAAI Workshop</td>
<td>Eugene C. Freuder, Program Chair</td>
<td>Technical Report WS-97-05</td>
<td>1-57735-032-4</td>
<td>153</td>
<td>$30.00</td>
</tr>
<tr>
<td>Constraints and Artificial Intelligence Planning</td>
<td>AAAI Workshop</td>
<td>Alexander Nareyek, Program Chair</td>
<td>Technical Report WS-00-02</td>
<td>1-57735-117-7</td>
<td>70</td>
<td>$25.00</td>
</tr>
<tr>
<td>Control of the Physical World by Intelligent Agents</td>
<td>AAAI Fall Symposium</td>
<td>Benjamin Kuipers and Lyle Ungar, Program Cochairs</td>
<td>Technical Report FS-94-03</td>
<td>0-929280-77-6</td>
<td>162</td>
<td>$30.00</td>
</tr>
<tr>
<td>Cross-Language Text and Speech Retrieval</td>
<td>AAAI Spring Symposium</td>
<td>David Hull and Doug Oard, Program Cochairs</td>
<td>Technical Report SS-97-05</td>
<td>1-57735-040-5</td>
<td>219</td>
<td>$35.00</td>
</tr>
<tr>
<td>Data Mining with Evolutionary Algorithms</td>
<td>AAAI Workshop</td>
<td>Alex A. Freitas, Program Chair</td>
<td>Technical Report WS-99-06</td>
<td>1-57735-090-1</td>
<td>32</td>
<td>$25.00</td>
</tr>
<tr>
<td>Decision-Theoretic Planning</td>
<td>AAAI Spring Symposium</td>
<td>Steve Hanks, Program Chair</td>
<td>Technical Report SS-94-06</td>
<td>0-929280-70-9</td>
<td>290</td>
<td>$40.00</td>
</tr>
<tr>
<td>Deep Blue Versus Kasparov: The Significance for AI</td>
<td>AAAI Workshop</td>
<td>Robert Morris, Program Chair</td>
<td>Technical Report WS-97-06</td>
<td>1-57735-031-6</td>
<td>68</td>
<td>$25.00</td>
</tr>
<tr>
<td>Detecting and Resolving Errors in Manufacturing Systems</td>
<td>AAAI Spring Symposium</td>
<td>Maria Gini, Program Chair</td>
<td>Technical Report SS-94-04</td>
<td>0-929280-60-1</td>
<td>138</td>
<td>$30.00</td>
</tr>
<tr>
<td>Developing Assistive Technology for People with Disabilities</td>
<td>AAAI Fall Symposium</td>
<td>Holly Yanco, Program Chair</td>
<td>Technical Report FS-96-05</td>
<td>1-57735-020-0</td>
<td>124</td>
<td>$30.00</td>
</tr>
<tr>
<td>Distributed Artificial Intelligence</td>
<td>Thirteenth International Workshop</td>
<td>Mark Klein, Program Chair</td>
<td>Technical Report WS-94-02</td>
<td>0-929280-72-5</td>
<td>396</td>
<td>$45.00</td>
</tr>
<tr>
<td>Embodied Cognition and Action</td>
<td>AAAI Fall Symposium</td>
<td>Maja Matarić, Program Chair</td>
<td>Technical Report FS-96-02</td>
<td>1-57735-016-2</td>
<td>155</td>
<td>$30.00</td>
</tr>
<tr>
<td>Embodied Language and Action</td>
<td>AAAI Fall Symposium</td>
<td>Ian Horswill and Marilyn Walker, Program Cochairs</td>
<td>Technical Report FS-95-05</td>
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<td>$30.00</td>
</tr>
</tbody>
</table>
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<thead>
<tr>
<th>Title</th>
<th>Symposium</th>
<th>Program Chair(s)</th>
<th>ISBN</th>
<th>Pages</th>
<th>Price</th>
</tr>
</thead>
<tbody>
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<td>$30.00</td>
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<tr>
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<td>Conference</td>
<td>Program Chairs/Senior Program Chairs</td>
<td>Technical Report</td>
<td>ISBN</td>
<td>Pages</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
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<td>--------------------------------------</td>
<td>------------------</td>
<td>---------------</td>
<td>-------</td>
</tr>
<tr>
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<td>SS-03-08</td>
<td>1-57735-190-8</td>
<td>130</td>
</tr>
<tr>
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<td>FS-02-05</td>
<td>1-57735-185-1</td>
<td>104</td>
</tr>
<tr>
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<td>James Gunderson and Cheryl Martin, Program Co-Chairs</td>
<td>SS-04-03</td>
<td>1-57735-195-9</td>
<td>158</td>
</tr>
<tr>
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<td>AAAI Fall Symposium</td>
<td>Peter Haddawy and Steve Hanks, Program Co-Chairs</td>
<td>FS-01-05</td>
<td>1-57735-143-6</td>
<td>105</td>
</tr>
<tr>
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<td>AAAI Workshop</td>
<td>Tim Finin and Benjamin Grosf, Program Co-Chairs</td>
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<td>1-57735-119-3</td>
<td>98</td>
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</tbody>
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</tr>
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<td>Papers from the AAAI Spring Symposium</td>
</tr>
<tr>
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<td>Terry Payne, Program Chair</td>
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<td>Frank D. Anger, Hans W. Guesgen, and Gerard Ligozat, Program Cochairs</td>
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</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
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</tr>
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<thead>
<tr>
<th>Technical Report Title</th>
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<th>Price</th>
</tr>
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<tbody>
<tr>
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<tr>
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<th>Issue Number</th>
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</tr>
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<tbody>
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