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KEY=DISTRTED - JIMMY BALLARD

Foundations of Distributed Artificial Intelligence John Wiley & Sons Distributed Artificial Intelligence (DAI) is a dynamic area of research and this book is the first comprehensive, truly integrated exposition of the discipline presenting influential contributions from leaders in the field. Commences with a solid introduction to the theoretical and practical issues of DAI, followed by a discussion of the core research topics--communication, coordination, planning--and how they are related to each other. The third section describes a number of DAI testbeds, illustrating particular strategies commissioned to provide software environments for building and experimenting with DAI systems. The final segment contains contributions which consider DAI from different perspectives. **An Application Science for Multi-Agent Systems Springer Science & Business Media** An Application Science For Multi-Agent Systems addresses the complexity of choosing which multi-agent control technologies are appropriate for a given problem domain or a given application. Without such knowledge, when faced with a new application domain, agent developers must rely on past experience and intuition to determine whether a multi-agent system is the right approach, and if so, how to structure the agents, how to decompose the problem, and how to coordinate the activities of the agents, and so forth. This unique collection of contributions, written by leading international researchers in the agent community, provides valuable insight into the issues of deciding which technique to apply and when it is appropriate to use them. The contributions also discuss potential trade-offs or caveats involved with each decision. An Application Science For Multi-Agent Systems is an excellent reference for anyone involved in developing multi-agent systems. **Distributed Information Systems in Business Springer Science & Business Media** This book gives answers to the question how distributed information systems can serve management, especially lean management. The authors develop new theoretical insights for the future of decentralized firms and offer concepts for creating and maintaining distributed information systems. The book contains interesting prototypes in logistics and financial industries and shows designs and applications of workflow systems. It offers a state-of-the-art survey of the subject. **Agent-Oriented Software Engineering First International Workshop, AOSE 2000 Limerick, Ireland, June 10, 2000 Revised Papers Springer** One of the most important reasons for the current intensity of interest in agent technology is that the concept of an agent, as an autonomous system capable of interacting with other agents in order to satisfy its design objectives, is a natural one for software designers. Just as we can understand many systems as being composed of essentially passive objects, which have a state and upon which we can perform operations, so we can understand many others as being made up of interacting semi-autonomous agents. This book brings together revised versions of papers presented at the First International Workshop on Agent-Oriented Software Engineering, AOSE 2000, held in Limerick, Ireland, in conjunction with ICSE 2000, and several invited papers. As a comprehensive and competent overview of agent-oriented software engineering, the book addresses software engineers interested in the new paradigm and technology as well as research and development professionals active in agent technology. **Multi-Agent System Engineering 9th European Workshop on Modelling Autonomous Agents in a Multi-Agent World, MAAMAW'99 Valencia, Spain, June 30 - July 2, 1999 Proceedings Springer** In the ten years since the first MAAMAW was held in 1989, at King's College, Cambridge, the field of Multi-Agent Systems (MAS) has flourished. It has attracted an increasing amount of theoretical and applied research. During this decade, important efforts have been made to establish the scientific and technical foundations of MAS. MAAMAW publications are testimony to the progress achieved in key areas such as agent modelling and reasoning, multi-agent interaction and communication, and multi-agent organisation and social structure. Research results have covered a wide range of inter-related topics in each area including agent architectures, reasoning models, logics, conflict resolution, negotiation, resource allocation, load balancing, learning; social behaviour and interaction, languages and protocols, interagent and agent-human communication, social models, agent roles, norms and social laws, and static and dynamic organisational structures. The feasibility and the viability of the proposed models and techniques have been demonstrated through MAS applications in heterogeneous domains including electronic commerce, co-operative work, telecommunications, social and biological systems, robotics, office and business automation, public administration, social simulations and banking. As the applicability of the technology became understood, the multi-agent paradigm has been progressively accepted by product managers and system developers, giving rise to a considerable amount of business expectation from industry. These expectations do not rest on the concept or metaphor of agent, but on the development of MAS useful in an industrial setting, with real-time systems presenting the biggest challenge. **Design and Applications of Intelligent Agents Third Pacific Rim International Workshop on Multi-Agents, PRIMA 2000 Melbourne, Australia, August 28-29, 2000 Proceedings Springer** PRIMA 2000 was the third in the series of Paci c Rim International Workshops on Multi-Agents. It was held on August 28-29, 2000, in Melbourne, Australia in conjunction with the Paci c Rim International Conference on Arti cial Intel- gence 2000. PRIMA is the main forum for the agent or multi-agent researchers in paci c rim countries to exchange and discuss their research results. This volume contains selected papers from PRIMA 2000. It covers theory, design, and applications of intelligent agents. The speci c aspects include co- dination, negotiation, learning, architecture, speci cation, allocation, and app- cation of intelligent agents. All papers are of high quality because each of them was reviewed and recommended by at least two international renowned program committee members. Many people contributed to this volume. We would like to thank all the a- hors who submitted papers to the workshop. Many thanks also to the members of the program committee who diligently reviewed all the papers. Finally, we thank the editorial sta of Springer-Verlag for publishing this volume in the Lecture Notes in Arti cial Intelligence series. **Intelligent Agents and Multi-Agent Systems 11th Pacific Rim International Conference on Multi-Agents, PRIMA 2008, Hanoi, Vietnam, December 15-16, 2008, Proceedings Springer** PRIMA 2008 was the 11th in a series of conferences gathering researchers - voted to developing intelligent agents and multi-agent technologies from Asia and the Paci?c regions. From its ?rst incarnation over a decade ago, PRIMA has emerged as a signi?cant international forum, facilitating the exchange and dissemination of innovative research from around the globe. PRIMA 2008 was held in Vietnam, a tribute to this country's emerging s- enti?c vitality and importance as a developing innovation center. The Program Committee received 56 submissions from 20 countries. Many of these papers are the work of PhD or Masters students from Asian countries including - rea, Japan, Indonesia, Malaysia, Iran, India, and Vietnam. In accordance with the rules, each submission was carefully peer-reviewed by three Program C- mittee referees. Only 19 submissions were accepted as regular papers, with a competitive rate of 33%. Additionally, the Program Committee decided to accept 22 short papers mainly written by graduate students, allowing our young colleagues an opp- tunity to present their work and new perspectives. These fresh perspectives enhanced our experienced of the conference and complemented the high quality of the professional papers submitted. **Agent Engineering World Scientific** Agent engineering concerns the development of autonomous computational or physical entities capable of perceiving, reasoning, adapting, learning, cooperating and delegating in a dynamic environment. It is one of the most promising areas of research and development in information technology, computer science and engineering. This book addresses some of the key issues in agent engineering: What is meant by "autonomous agents"? How can we build agents with autonomy? What are the desirable capabilities of agents with respect to surviving (they will not die) and living (they will furthermore enjoy their being or existence)? How can agents cooperate among themselves? In order to achieve the optimal performance at the global level, how much optimization at the local, individual level and how much at the global level would be necessary? Contents: Introduction to Agent Engineering (J-M Liu et al.)Why Autonomy Makes the Agent (S Joseph & T Kawamura)Knowledge Granularity Spectrum, Action Pyramid, and the Scaling Problem (Y-M Ye & J K Tsotsos)The Motivation for Dynamic Decision-Making Frameworks in Multi-Agent Systems (K S Barber & C E Martin)Dynamically Organizing KDD Processes in a Multi-Agent KDD System (N Zhong et al.)Self-Organized Intelligence (J-M Liu)Valuation-Based Coalition Formation in Multi-Agent Systems (S J Johansson)Simulating How to Cooperate in Iterated Chicken and Prisoner's Dilemma Games (B Carlsson)Training Intelligent Agents Using Human Data Collected on the Internet (E Sklar et al.)Agent Dynamics: Soap Paradigm (F W K Lor) Readership: Computer scientists, programmers, information technology practitioners, systems engineers, managers, researchers and graduate students in engineering. Keywords: **Advanced Agent Technology AAMAS Workshops 2011, AMPLE, AOSE, ARMS, DOCM3AS, ITMAS, Taipei, Taiwan, May 2-6, 2011. Revised Selected Papers Springer Science & Business Media** This book constitutes the thoroughly refereed post-workshop proceedings of 5 workshops, held at the 10th International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2011, in Taipei, Taiwan, May 2-6, 2011. The 37 revised full papers presented together with 1 invited paper were carefully reviewed and selected from numerous submissions. The papers are organized in sections on the workshops Agent-Based Modeling for Policy Engineering (AMPLE), Agent-Oriented Software Engineering (AOSE), Autonomous Robots and Multirobot Systems (ARMS), Data Oriented Constructive Mining and Multi-Agent Simulation, Massively Multi-Agent Systems: Models, Methods and Tools (DOCM3AS), and Infrastructures and Tools for Multiagent Systems (ITMAS). **Infrastructure for Agents, Multi-Agent Systems, and Scalable Multi-Agent Systems International Workshop on Infrastructure for Scalable Multi-Agent Systems, Barcelona, Spain, June 3-7, 2000 Revised Papers Springer** Building research grade multi-agent systems usually involves a broad variety of software infrastructure ingredients like planning, scheduling, coordination, communication, transport, simulation, and module integration technologies and as such constitutes a great challenge to the individual researcher active in the area. The book presents a collection of papers on approaches that will help make deployed and large scale multi-agent systems a reality. The first part focuses on available infrastructure and requirements for constructing research-grade agents and multi-agent systems. The second part deals with support in infrastructure and software development methods for multi-agent systems that can directly support coordination and management of large multi-agent communities; performance analysis and scalability techniques are needed to promote deployment of multi-agent systems to professionals in software engineering and information technology. **Handbook of Research on Emerging Rule-Based Languages and Technologies: Open Solutions and Approaches Open Solutions and Approaches IGI Global** "This book provides a comprehensive collection of state-of-the-art advancements in rule languages"--Provided by publisher. **Distributed Computing and Artificial Intelligence 10th International Conference Springer Science & Business Media** The International Symposium on Distributed Computing and Artificial Intelligence 2013 (DCAI 2013) is a forum in which applications of innovative techniques for solving complex problems are presented. Artificial intelligence is changing our society. Its application in distributed environments, such as the internet, electronic commerce, environment monitoring, mobile communications, wireless devices, distributed computing, to mention only a few, is continuously increasing, becoming an element of high added value with social and economic potential, in industry, quality of life, and research. This conference is a stimulating and productive forum where the scientific community can work towards future cooperation in Distributed Computing and Artificial Intelligence areas. These technologies are changing constantly as a result of the large research and technical effort being undertaken in both universities and businesses. The exchange of ideas between scientists and technicians from both the academic and industry sector is essential to facilitate the development of systems that can meet the ever increasing demands of today's society. This edition of DCAI brings together past experience, current work, and promising future trends associated with distributed computing, artificial intelligence and their application in order to provide efficient solutions to real problems. This symposium is organized by the Bioinformatics, Intelligent System and Educational Technology Research Group (http://bisite.usal.es/) of the University of Salamanca. The present edition was held in Salamanca, Spain, from 22nd to 24th May 2013. **Ambient Intelligence Second European Symposium, EUSAI 2004, Eindhoven, The Netherlands, November 8-11, 2004, Proceedings Springer Science & Business Media** This book constitutes the refereed proceedings of the Second European Symposium on Ambient Intelligence, EUSAI 2004, held in Eindhoven, The Netherlands in November 2004. The 36 revised full papers presented were carefully reviewed and selected from 90 submissions. The papers are organized in topical sections on ubiquitous computing: sofware architectures, communication, and distribution; context sensing and machine perception; human computer interaction in ambient intelligence environments; and algorithms, ontologies, and architectures for learning and adaptation. **Cooperative Knowledge Processing The Key Technology for Intelligent Organizations Springer Science & Business Media** In the light of the challenges that face today's organizations, there is a grow ing recognition that future market success and long term' survival of enter prises will increasingly depend upon the effective usage of information technology. Of late, a new generation of terminology has emerged to describe enterprises. This terminology draws heavily upon the virtual concep- virtual reality, virtual organization, virtual (working) environment, and indeed virtual product. However, developing computerized organisations for the 21st century

demands serious thought with regard to the judicious integration of organizational theory, design and practice with research tools and methods from within information processing technology. Within this book, we approach this aim from the perspective of a radically decentralized (possibly virtual) enterprise. We assume that organizations are becoming increasingly process-orientated, rather than adhering to the former more traditional organizational structures based upon task oriented models. This approach has proved illuminating in that, due to the inherent autonomy of organizational subunits any approach to coordinating decentralized activ ities (including workflows and business processes) necessitates a cooperative style of problem solving. This book introduces the reader to a stimulating new field of interdiscipli nary research in cooperative problem solving. In Chapter 1 Kim presents a view of three central discip14tes, namely those of Organizational Theory, Computer Supported Cooperative Work (CSCW) and Distributed Artificial Intelligence (DAI). The applications given here demonstrate how future enterprises will benefit from recent advances in the technological arena of cooperative knowledge processing. **Distributed Artificial Intelligence, Agent Technology, and Collaborative Applications IGI Global** "This book is a catalyst for emerging research in intelligent information, specifically artificial intelligent technologies and applications to assist in improving productivity in many roles such as assistants to human operators and autonomous decision-making components of complex systems"--Provided by publisher. **Distributed Computer Control Systems in Industrial Automation Routledge** A reference guide for professionals or text for graduate and postgraduate students, this volume emphasizes practical designs and applications of distributed computer control systems. It demonstrates how to improve plant productivity, enhance product quality, and increase the safety, reliability, and **Distributed Computer Control Systems in Industrial Automation CRC Press** A reference guide for professionals or text for graduate and postgraduate students, this volume emphasizes practical designs and applications of distributed computer control systems. It demonstrates how to improve plant productivity, enhance product quality, and increase the safety, reliability, and **Technology of Object-oriented Languages and Systems : TOOLS 26 Proceedings : August 3-7, 1998, Santa Barbara, California Institute of Electrical & Electronics Engineers(IEEE)** This collection of papers examines the field of database and information systems. It includes topics such as: distribution and concurrency; application design; patterns and frameworks; Java; formal aspects of OO; modelling; languages; and measurement database." **Distributed Artificial Intelligence A Modern Approach CRC Press** Distributed Artificial Intelligence (DAI) came to existence as an approach for solving complex learning, planning, and decision-making problems. When we talk about decision making, there may be some meta-heuristic methods where the problem solving may resemble like operation research. But exactly, it is not related completely to management research. The text examines representing and using organizational knowledge in DAI systems, dynamics of computational ecosystems, and communication-free interactions among rational agents. This publication takes a look at conflict-resolution strategies for nonhierarchical distributed agents, constraint-directed negotiation of resource allocations, and plans for multiple agents. Topics included plan verification, generation, and execution, negotiation operators, representation, network management problem, and conflict-resolution paradigms. The manuscript elaborates on negotiating task decomposition and allocation using partial global planning and mechanisms for assessing nonlocal impact of local decisions in distributed planning. The book will attract researchers and practitioners who are working in management and computer science, and industry persons in need of a beginner to advanced understanding of the basic and advanced concepts. **Distributed Computing and Internet Technology 6th International Conference, ICDCIT 2010, Bhubaneswar, India, February 15-17, 2010, Proceedings Springer** LNCS 5966 **Artificial Intelligence, Machine Learning and Blockchain in Quantum Satellite, Drone and Network CRC Press** Quantum computing is a field in which advanced technologies like quantum communication, artificial intelligence and machine learning can be used to secure and speed up connectivity using quantum computers, quantum drones or quantum satellites. This book serve as a foundation for researchers and scientists in this field. Future technologies, such as quantum drone delivery systems, quicker internet and climate change mitigation, will need quantum information processing and quantum computation. This book deeply explores the importance of quantum computing in real-time applications. It may be used as a reference book for students in higher education, including undergraduate and graduate students, as well as researchers. Key features: Provides a clear insight into the Internet of Drones for academicians, postdoc fellows, research scholars, graduate and postgraduate students, industry fellows and software engineers Useful to professionals who seek information about the Internet of Drones, including experts in quantum computing and physics and post-quantum cryptography, as well as data scientists and data analysts Covers quantum computing and security for Unmanned Aerial Vehicles (UAV) or drones which are widely useful for applications such as military, government, and non-government systems Explores futuristic aspects of the Intenet of Drones to improve everyday living for ordinary people **Intelligent Distributed Computing VIII Springer** This book represents the combined peer-reviewed proceedings of the Eight International Symposium on Intelligent Distributed Computing - IDC'2014, of the Workshop on Cyber Security and Resilience of Large-Scale Systems - WSRL-2014, and of the Sixth International Workshop on Multi-Agent Systems Technology and Semantics- MASTS-2014. All the events were held in Madrid, Spain, during September 3-5, 2014. The 47 contributions published in this book address several topics related to theory and applications of the intelligent distributed computing and multi-agent systems, including: agent-based data processing, ambient intelligence, collaborative systems, cryptography and security, distributed algorithms, grid and cloud computing, information extraction, knowledge management, big data and ontologies, social networks, swarm intelligence or videogames amongst others. **Intelligence Integration in Distributed Knowledge Management IGI Global** "This book covers a broad range of intelligence integration approaches in distributed knowledge systems, from Web-based systems through multi-agent and grid systems, ontology management to fuzzy approaches"--Provided by publisher. **Transactions of the Society for Computer Simulation Design Recommendations for Intelligent Tutoring Systems: Volume 6 - Team Tutoring US Army Research Laboratory** This book on team tutoring is the sixth in a planned series of books that examine key topics (e.g., learner modeling, instructional strategies, authoring, domain modeling, assessment, impact on learning, team tu-toring, machine learning for self-improving systems, potential standards, and learning effect evaluation methods) in intelligent tutoring system (ITS) design. This book focuses on team tutoring. The discussion chapters in this book examine topics through the lens of the Generalized Intelligent Framework for Tutoring (GIFT) (Sottilare, Brawner, Goldberg & Holden, 2012; Sottilare, Brawner, Sinatra, & Johnston, 2017). GIFT is a modular, service-oriented architecture created to reduce the cost and skill required to author ITSs, distribute ITSs, manage instruction within ITSs, and evaluate the effect of ITS technologies on learning, performance, retention, transfer of skills, and other instructional outcomes. Along with this volume, the first five books in this series, Learner Modeling (ISBN 978-0-9893923-0-3), Instructional Management (ISBN 978-0-9893923-2-7), Authoring Tools (ISBN 978-0-9893923-6-5), Domain Modeling (978-0-9893923-9-6) and Assessment Methods (ISBN 978-0-9977257-2-8) are freely avail-able at www.GIFTtutoring.org and on Google Play. **Internet and Distributed Computing Systems 7th International Conference, IDCS 2014, Calabria, Italy, September 22-24, 2014, Proceedings Springer** This book constitutes the refereed proceedings of the 7th International Conference on Internet and Distributed Computing Systems, IDCS 2014, held in Calabria, Italy, in September 2014. The 23 revised full and 15 revised short papers presented were carefully reviewed and selected from 50 submissions. The papers cover the following topics: ad-hoc and sensor networks; internet and Web technologies; network operations and management; multi-agent systems; cloud-based information infrastructures. **Artificial Intelligence Applications in Distance Education IGI Global** "This book seeks to examine the efforts made to bridge the gap between student and educator with computer applications through an in-depth discussion of applications employed to overcome the problems encountered during educational processes"--Provided by publisher. **Library of Congress Subject Headings Artificial Intelligence in Real-Time Control 1991 Proceedings of the 3rd IFAC Workshop, California, USA, 23-25 September 1991 Elsevier** This set of proceedings contains the most significant papers presented at the third IFAC Workshop on Artificial Intelligence in Real-time Control, which was held from September 23-25, 1991 in the USA. In this workshop, although there were still some "exotic" applications, a more practical view of the applications and limitations of current AI technology dominated the participants' discussions. With its resultant focus on reliability and safety considerations, the workshop posed as many questions as it answered. It provides an excellent mirror of the current state-of-the-art which these proceedings are intended to illustrate. **Next Generation Information System Technology First International East/West Data Base Workshop, Kiev, USSR, October 9-12, 1990. Procceedings Springer Science & Business Media** The papers in this book discuss the concepts that will determine the next generation of information systems, such as data types for databases, object orientation, data deduction and construction, visual database interfaces, interoperability and extensibility, open architectures. **Intelligent Distributed Computing Springer** This book contains a selection of refereed and revised papers of the Intelligent Distributed Computing Track originally presented at the third International Symposium on Intelligent Informatics (ISI-2014), September 24-27, 2014, Delhi, India. The papers selected for this Track cover several Distributed Computing and related topics including Peer-to-Peer Networks, Cloud Computing, Mobile Clouds, Wireless Sensor Networks, and their applications. **Handbook of Research on Demand-Driven Web Services: Theory, Technologies, and Applications Theory, Technologies, and Applications IGI Global** In the current technological world, Web services play an integral role in service computing and social networking services. This is also the case in the traditional FREG (foods, resources, energy, and goods) services because almost all traditional services are replaced fully or partially by Web services. Handbook of Research on Demand-Driven Web Services: Theory, Technologies, and Applications presents comprehensive and in-depth studies that reveal the cutting-edge theories, technologies, methodologies, and applications of demand-driven Web, mobile, and e-business services. This book provides critical perspectives for researchers and practitioners, lecturers and undergraduate/graduate students, and professionals in the fields of computing, business, service, management, and government, as well as a variety of readers from all the social strata. **Library of Congress Subject Headings Symbiosis of Real and Simulated Worlds Under Spatial Grasp Technology Springer Nature** This book investigates new important applications of the Spatial Grasp Technology (SGT) allowing us to effectively simulate and manage large distributed dynamic systems on semantic and holistic levels. This patented technology, developed for decades and in different countries, is based on a completely different philosophy and model allowing us to directly operate in united distributed physical and virtual spaces and provide system solutions much simpler and more compact than under other approaches. The described applications include basic operations suitable for solving many network-related problems, simulation of such mysterious concept as consciousness so important for the design of advanced intelligent systems, modelling the spread of viruses and distribution of antivirus vaccine, and also implementation of the latest decision-centric and mosaic-based organizational concepts important for modern defence and industrial systems. The described technology version with its Spatial Grasp Language can be implemented even within university environments, with communicating language interpreter copies, potentially numbering millions to billions, easily embedded into any existing systems, including Internet, thus converting the whole world into a powerful symbiotic simulation management engine. The book is oriented on system scientists, application programmers, industry managers, and also university students interested in advanced M.Sc. and Ph.D. projects related to distributed system management. **NASA SP-7500 Management, a continuing bibliography with indexes Hydraulic and Civil Engineering Technology VI Proceedings of the 6th International Technical Conference on Frontiers of HCET 2021 IOS Press** New technologies, such as improved testing and physical modeling methods, together with numerical studies and other novel techniques, have led to many developments in the fields of hydraulic and civil engineering in recent years. This book presents proceedings from HCET 2021, the 6th International Technical Conference on Frontiers of Hydraulic and Civil Engineering Technology, held in Sanya, China, on 28 and 29 August 2021. The conference highlighted the latest advances, innovations and applications in the fields of hydraulic and civil engineering, and served as a platform to promote and celebrate interdisciplinary study. The book contains 89 papers, selected from 178 contributions and divided into 4 sections: Modern Civil Engineering; Water and Hydraulic Engineering; Environment Engineering and Sciences; and Transdisciplinary Engineering and Technology. Topics covered involve both theoretical and practical knowledge and understanding, primarily in the areas of hydraulics and water resource engineering, civil engineering, environmental engineering and sciences, transportation engineering, coastal and ocean engineering and transdisciplinary engineering and technology. The book, which presents a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among specialists in various fields, will be of interest to all academics, researchers, practitioners and policymakers seeking to understand and tackle civil and hydraulic engineering challenges by adopting appropriate, sustainable, solutions. **Parallel and Distributed Computing, Applications and Technologies 19th International Conference, PDCAT 2018, Jeju Island, South Korea, August 20-22, 2018, Revised Selected Papers Springer** This book constitutes the refereed proceedings of the 19th International Conference on CParallel and Distributed Computing, Applications and Technologies, PDCAT 2018, held in Jeju Island, South Korea, in August 2018. The 35 revised full papers presented along with the 14 short papers and were carefully reviewed and selected from 150 submissions. The papers of this volume are organized in topical sections on wired and wireless communication systems, high dimensional data representation and processing, networks and information security, computing techniques for efficient networks design, electronic circuits for communication systems. **Complexity in International Security A Holistic Spatial Approach Emerald Group Publishing** Leading international security expert Peter Sapaty introduces a new, high-level distributed processing and control approach capable of finding real-time solutions for irregularities, crises, and security problems emerging any time and in any part of the world. **Distributed Computer Control Systems 1991 Towards Distributed Real-Time Systems with Predictable Timing Properties Elsevier** Distributed computer control is at the intersection between control engineering and computer science. Containing 22 papers, this book provides an up-to-date reference source of important issues in the design and implementation of distributed real-time computer systems. **Knowledge-based Software Development For Real-time Distributed Systems World Scientific** The interplay of artificial intelligence and software engineering has been an interesting and an active area in research institution and industry. This book covers the state of the art in the use of knowledge-based approaches for software specification, design, implementation, testing and debugging. Starting with an introduction to various software engineering paradigms and knowledge-based software systems, the book continues with the discussion of using hybrid knowledge representation as a basis to specify software requirements, to facilitate specification analysis and transformation of real-time distributed software systems. A formal requirements specification language

using non-monotonic logic, temporal logic, frames and production systems for new software engineering paradigms (such as rapid prototyping, operational specification and transformational implementation) is also discussed in detail. Examples from switching and other applications are used to illustrate the requirements language. Finally, the development, specification and verification of knowledge-based systems are investigated.