

capabilities. Maurizio Tomasi, University of Milan Highly recommended for programmers who want to further their knowledge of the latest C++ standard. Frédéric Flayol, 4Pro Web C++ The guide contains snippets for everyday use in your own projects and to help take your concurrency C++ skills from the Padawan to the Jedi level. Jura Shikin, IVI Technologies NARRATED BY LISA FARINA AND DIANA GARDINER.

Specifying and implementing dynamical systems with the situation calculus. Modeling and implementing dynamical systems is a central problem in artificial intelligence, robotics, software agents, simulation, decision and control theory, and many other disciplines. In recent years, a new approach to representing such systems, grounded in mathematical logic, has been developed within the AI knowledge-representation community. This book presents a comprehensive treatment of these ideas, basing its theoretical and implementation foundations on the situation calculus, a dialect of first-order logic. Within this framework, it develops many features of dynamical systems modeling, including time, processes, concurrency, exogenous events, reactivity, sensing and knowledge, probabilistic uncertainty, and decision theory. It also describes and implements a new family of high-level programming languages suitable for writing control programs for dynamical systems. Finally, it includes situation calculus specifications for a wide range of examples drawn from cognitive robotics, planning, simulation, databases, and decision theory, together with all the implementation code for these examples. This code is available on the book's Web site.

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This text takes complicated and almost unapproachable parallel programming techniques and presents them in a simple, understandable manner. It covers the fundamentals of programming for distributed environments like Internets and Intranets as well as the topic of Web Based Agents.

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Provides information on building concurrent applications using Java.

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Concurrent C is a superset of C that provides parallel programming facilities such as those for the declaring and creating processes, for process synchronization and interaction, and for process termination and abortion. Concurrent C was designed for the effective utilization of multiprocessors and multicomputers. Concurrent C, as a compile-time option, also works with C++, an object-oriented superset of C.

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????:Richard Helm,Ralph Johnson,John Vlissides ????:???,??,???

Intelligent agents are one of the most important developments in computer science of the past decade. Agents are of interest in many important application areas, ranging from human-computer interaction to industrial process control. The ATAL workshop series aims to bring together researchers interested in the core/micro aspects of agent technology. Specifically, ATAL addresses issues such as theories of agency, software architectures for intelligent agents, methodologies and programming languages for realizing agents, and software tools for applying and evaluating agent systems. One of the strengths of the ATAL workshop series is its emphasis on the synergies between theories, languages, architectures, infrastructures, methodologies, and formal methods. This year's workshop continued the ATAL trend of attracting a large number of high quality submissions. In more detail, 71 papers were submitted to the ATAL 2000 workshop, from 21 countries. After stringent reviewing, 22 papers were accepted for publication and appear in these proceedings. As with previous workshops in the series, we chose to emphasize what we perceive as important new themes in agent research. This year's themes were both associated with the fact that the technology of intelligent agents and multi-agent systems is beginning to migrate from research labs to software engineering centers. As agents are deployed in applications such as electronic commerce, and start to take over responsibilities for their human users, techniques for controlling their autonomy become crucial. As well, the availability of tools that facilitate the design and implementation of agent systems becomes an important factor in how rapidly the technology will achieve widespread use.

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