

Real-Time and Multi-Agent Systems

This book is a translation of the accomplishment of the French engineer Ammar Attoui, who has set out to bring together the works of computer scientists and automotive engineers. Computer scientists have worked on the same type of systems as automotive engineers, but have used different designs, methods and tools. The former call the resultant systems "real-time systems", and the latter call them "discontinuous event systems". Today, telecommunications systems of increasing performance, and increasingly powerful multi-task operating and real time systems offer the possibilities of the development of distributed structure applications organized in a group of asynchronous entities which communicate by the exchange of messages and events. Hence, combining the cultures of computer science and automotive engineering is essential to gain the benefits of unifying their techniques and methods in order to realize this potential. The absence of the global state in distributed systems, which is a result of the absence of a shared memory and unique repository, makes communication via messaging the sole means which can be used under any circumstances. Agents are conceptual communicating entities. The book presents the methods and techniques which are necessary for the concrete implementation of the idea of an agent as an autonomous and reactive computing entity. Multi-agent systems are composed of a set of specialized entities communicating on behalf of a global application.

This book is a translation of the accomplishment of the French engineer Ammar Attoui, who has set out to bring together the works of computer scientists and automotive engineers. Computer scientists have worked on the same type of systems as automotive engineers, but have used different designs, methods and tools. The former call the resultant systems "real-time systems", and the latter call them "discontinuous event systems". Today, telecommunications systems of increasing performance, and increasingly powerful multi-task operating and real time systems offer the possibilities of the development of distributed structure applications organized in a group of asynchronous entities which communicate by the exchange of messages and events. Hence, combining the cultures of computer science and automotive engineering is essential to gain the benefits of unifying their techniques and methods in order to realize this potential. The absence of the global state in distributed systems, which is a result of the absence of a shared memory and unique repository, makes communication via messaging the sole means which can be used under any circumstances. Agents are conceptual communicating entities. The book presents the methods and techniques which are necessary for the concrete implementation of the idea of an agent as an autonomous and reactive computing entity. Multi-agent systems are composed of a set of specialized entities communicating on behalf of a global application.



53,49 €

49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781852332525

Medium: Buch

ISBN: 978-1-85233-252-5

Verlag: Springer

Erscheinungstermin: 22.09.2000

Sprache(n): Englisch

Auflage: 1. Auflage 2000

Serie: Practitioner Series

Produktform: Kartoniert

Gewicht: 733 g

Seiten: 461

Format (B x H): 155 x 235 mm

