

<<Concurrent Object-Or>>

图书基本信息

书名：<<Concurrent Object-Oriented Programming and Petri Nets: Advances in Petri Nets (平装)>>

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内容概要

Concurrency and distribution have become the dominant paradigm and concern in computer science. Despite the fact that much of the early research in object-oriented programming focused on sequential systems, objects are a natural unit of distribution and concurrency - as elucidated early on by research on the Actor model. Thus, models and theories of concurrency, the oldest one being Petri nets, and their relation to objects are an attractive topic of study. This book presents state-of-the-art results on Petri nets and concurrent object-oriented programming in a coherent and competent way. The 24 thoroughly reviewed and revised papers are organized in three sections. The first consists of long papers, each presenting a detailed approach to integrating Petri nets and object-orientation. Section II includes shorter papers with emphasis on concrete examples to demonstrate the approach. Finally, section III is devoted to papers which significantly build on the Actor model of computation.

书籍目录

Section 1	Object Oriented Modeling with Object Petri Nets	C Lakos	Using Petri Nets for Specifying Active Objects and Generative Communication	T. Holvoet, P. Verbaeten	Object-Oriented Nets with Algebraic Specifications: The CO-OPN/2 Formalism	O. Biberstein, D. Buchs, and N. Guelfi	CLOWN as a Testbed for Concurrent Object-Oriented Concepts	E. Battiston, A. Chizzoni, and F. De Cindio	Concurrency in Communicating Object Petri Nets	R. Valk	Object Orientation in Hierarchical Predicate Transition Nets	X. He, Y. Ding	CoOperative Objects: Principles, Use and Implementation	C. Sibertin-Blanc	OB(PN)2: An Object Based Petri Net Programming Notation	J. Lilius	On Formalizing UML with High-Level Petri Nets	L. Baresi, M. Pezze
Section 2	Modeling a Groupware Editing Tool with Cooperative Objects	R. Bastide, P. Palanque	Modeling Constrained Geometric Objects with OBJSA Nets	M. A. Alberti, P. Evi, and D. Marini	An Object-Based Modular CPN Approach: Its Application to the Specification of a Cooperative Editing Environment	D. S. Guerrero, J. C. A. de Figueiredo, and A. Perkusich	KRON: Knowledge Engineering Approach Based on the Integration of CPNs with Objects	J. A. Bahares, P. R. Muro-Medrano, J. L. Villarroel, and F. J. Zarazaga	Modeling of a Library with THORNs	F. Koster, S. Schof, M. Sonnenschein, and R. Wieting	Inheritance of Dynamic Behavior: Development of a Groupware Editor	T. Basten, W. M. P. van der Aalst	Object Colored Petri Nets - A Formal Technique for Object Oriented Modeling	C. Maier, D. Moldt				
Section 3	An Actor Algebra for Specifying Distributed Systems: The Hurried Philosophers Case Study	M. Gaspari, G. Zavattaro	Formal Reasoning about Actor Programs Using Temporal Logic	S. Schacht	Flexible Types for a Concurrent Model	F. Puntigam	High Level Transition Systems for Communicating Agents	F. Vernadat, P. Azema	Schedulability Analysis of Real Time Actor Systems Using Colored Petri Nets	L. Nigro, F. Pupo	Control Properties in Object-Oriented Specifications	A. Diagne						
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