<< Advances in exception handling techniques>>

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Modern software systems are becoming more complex in many ways and have to cope with a growing number of abnormal situations which, in turn, are increasingly complex to handle. The most general way of dealing with these problems is by incorporating exception handling techniques in software design. In the past, various exception handling models and techniques have been proposed and many of them are part of practical languages and software composition technologies. This book is composed of five parts, which deal with topics related to exception handling in the context of programming language models, design methodologies, concurrent and distributed systems, applications and experiences, and large-scale systems such as database and workflow process mangagement systems. The 17 coherently written chapters by leading researchers competently address a wide range of issues in exception handling.

Part 1 Language Support for Exception Handling Fault Tolerance and Exception Handling in BETA A Fully Object-Oriented Exception Handling System: Rationale and Smalltalk Implementation Condition Handling in the Lisp Language FamilyPart 2 Design and Modeling of Exception Handling Structures Exception Safety: Concepts and Techniques Exceptions in Object Modeling: Finding Exceptions from the Elements of the Static Object Model Supporting Evolution of Interface ExceptionsPart 3 Exception Handling in Concurrent and Distributed Systems Concurrent Exception Handling Exception Handling in Agent-Oriented Systems Action-Oriented Exception Handling in Cooperative and Competitive Concurrent Object-Oriented Systems Exception Handling and Resolution for Transactional Object GroupsPart 4 Applications of Exception Handling Techniques Experiences with Error Handling in Critical Systems An Architectural-Based Reflective Approach to Incorporating Exception Handling into Dependable Software Adapting C++ Exception Handling to an Extended COM Exception Model Portable Implementation of Continuation Operators in Imperative Languages by Exception HandlingPart 5 Exception Handling in Information Systems Exception Handling in Object-Oriented Databases Error Handling in Process Support Systems ADOME-WFMS: Towards Cooperative Handling of Workflow ExceptionsAuthor Index

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