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Advanced Debugging Methods (The Springer International Series in Engineering and Computer Science)

Raimondas Lencevicius

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Object relationships in modern software systems are becoming increasingly numerous and complex, and program errors due to violations of object relationships are difficult to detect. Programmers need new tools that allow them to explore objects in a large system more efficiently and to detect broken object relationships instantaneously. Such tools incorporate approaches used in such areas as data visualization, pattern matching and extraction, database querying, active databases, and rule-based programming. The query-based debugging approach developed by the author of this book is another powerful yet efficient tool to be added to the developer's tool chest.
Advanced Debugging Methods presents practice and tools for debugging computer programs. This book proposes new powerful approaches that simplify the daunting task of debugging complex software systems. Although debugging has been addressed in numerous research papers, many of its methods have yet to be explored in a book-length format. This book helps to fill this gap by presenting an overview of existing debugging tools with motivating examples and case studies, as well as presenting new, state-of-the-art debugging methods.
Advanced Debugging Methods will be of use to software developers looking for tools to be applied in cutting edge practice; system architects looking at the relationship between software design and debugging; tools and programming language researchers looking for new ideas in run-time tool implementation as well as detailed descriptions of advanced implementations; and university professors and graduate students who will use this book as supplementary reading for graduate courses in programming tools, language implementation, and advanced object-oriented systems. *Advanced Debugging Methods* is also a handy reference of currently existing debugging methodologies as well as a springboard for cutting-edge research to simplify the difficult task of debugging and to facilitate the development of more robust software systems.

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