Object-Oriented Technology and Computing Systems Re-Engineering

Description:
This book delivers the latest developments in object technology and their impact in computing systems re-engineering. Object-oriented programming is here shown to provide support for constructing large scale systems that are cheaply built and with reusable components, adaptable to changing requirements and use efficient and cost-effective techniques.

Internationally recognised authorities from Finland, France, Germany, Italy, Poland, Spain, the UK and the USA here record their research and development work on the industrial techniques and structured object-oriented methodologies in forward and reverse engineering of computing systems. This book takes stock of progress of that work showing its promise and feasibility, and how its structured technology can overcome the limitations of forward engineering methods used in industry. Forward methods are focused in the domain of reverse engineering to implement a high level of specification for existing software.

The book contains the selected, quintessential content of the first UK Colloquium on Object Technology and Systems Re-Engineering held at Oxford University in 1998. The conference was sponsored by British Telecom Laboratories, EMSI limited and the OOSP Specialised Group of The British Computer Society.

- Delivers the latest developments in object technology and their impact in computing systems re-engineering
- Provides support for constructing large scale systems that are cheaply built and with reusable components, adaptable to changing requirements and use efficient and cost-effective techniques
- Contains the content of the first UK Colloquium on Object Technology and Systems Re-Engineering held at Oxford University in 1998

Contents:
Toward an object-oriented design methodology for hybrid systems
Design patterns and their role in formal object-oriented development
Devising coexistence strategies for objects with legacy systems
Object-oriented model for expert systems implementation
Re-engineering requirements specifications for re-use
Object-oriented development of X-ray spectrometer software
Pre-processing COBOL programs for reverse engineering
Agent oriented programming language
Fair objects
Systems of systems as communicating structures
Suitability of CORBA as a heterogeneous distributed platform
Using O-O design to enhance procedural software
Reengineering procedural software to object-oriented software using design transformations and resource usage matrix.

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