

**CONSTRAINT-BASED
DESIGN RECOVERY
FOR SOFTWARE
REENGINEERING**
Theory and Experiments

**Steven G. Woods
Alexander E. Quilici
Qiang Yang**

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Constraint Based Design Recovery For Software Reengineering Theory And Experiments

Arthur James Wells



Constraint Based Design Recovery For Software Reengineering Theory And Experiments:

Constraint-Based Design Recovery for Software Reengineering Steven G. Woods,Alexander E. Quilici,Qiang Yang,1997-11-30 The great challenge of reverse engineering is recovering design information from legacy code the concept recovery problem This monograph describes our research effort in attacking this problem It discusses our theory of how a constraint based approach to program plan recognition can efficiently extract design concepts from source code and it details experiments in concept recovery that support our claims of scalability Importantly we present our models and experiments in sufficient detail so that they can be easily replicated This book is intended for researchers or software developers concerned with reverse engineering or reengineering legacy systems However it may also interest those researchers who are interested using plan recognition techniques or constraint based reasoning We expect the reader to have a reasonable computer science background i e familiarity with the basics of programming and algorithm analysis but we do not require familiarity with the fields of reverse engineering or artificial intelligence AI To this end we carefully explain all the AI techniques we use This book is designed as a reference for advanced undergraduate or graduate seminar courses in software engineering reverse engineering or reengineering It can also serve as a supplementary textbook for software engineering related courses such as those on program understanding or design recovery for AI related courses such as those on plan recognition or constraint satisfaction and for courses that cover both topics such as those on AI applications to software engineering ORGANIZATION The book comprises eight chapters

Constraint-Based Design Recovery for Software Reengineering ,1998

Constraint-Based Design Recovery for Software Reengineering Steven G. Woods,Alexander E. Quilici,Qiang Yang,2012-12-06 The great challenge of reverse engineering is recovering design information from legacy code the concept recovery problem This monograph describes our research effort in attacking this problem It discusses our theory of how a constraint based approach to program plan recognition can efficiently extract design concepts from source code and it details experiments in concept recovery that support our claims of scalability Importantly we present our models and experiments in sufficient detail so that they can be easily replicated This book is intended for researchers or software developers concerned with reverse engineering or reengineering legacy systems However it may also interest those researchers who are interested using plan recognition techniques or constraint based reasoning We expect the reader to have a reasonable computer science background i e familiarity with the basics of programming and algorithm analysis but we do not require familiarity with the fields of reverse engineering or artificial intelligence AI To this end we carefully explain all the AI techniques we use This book is designed as a reference for advanced undergraduate or graduate seminar courses in software engineering reverse engineering or reengineering It can also serve as a supplementary textbook for software engineering related courses such as those on program understanding or design recovery for AI related courses such as those on plan recognition or constraint satisfaction and for courses that cover

both topics such as those on AI applications to software engineering ORGANIZATION The book comprises eight chapters

Fundamental Approaches to Software Engineering Jean-Pierre Finance, 2004-01-27 ETAPS 99 is the second instance of the European Joint Conferences on Theory and Practice of Software ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences This year it comprises five conferences FOSSACS FASE ESOP CC TACAS four satellite workshops CMCS AS WAGA CoFI seven invited lectures two invited tutorials and six contributed tutorials The events that comprise ETAPS address various aspects of the system development process including specification design implementation analysis and improvement The languages methodologies and tools which support these activities are all well within its scope Different blends of theory and practice are represented with an inclination towards theory with a practical motivation on one hand and soundly based practice on the other Many of the issues involved in software design apply to systems in general including hardware systems and the emphasis on software is not intended to be exclusive

Experimentation in Software Engineering Claes Wohlin, Per Runeson, Martin Höst, Magnus C. Ohlsson, Björn Regnell, Anders Wesslén, 2012-12-06 It is my belief that software engineers not only need to know software engineering methods and processes but that they also should know how to assess them Consequently I have taught principles of experimentation and empirical studies as part of the software engineering curriculum Until now this meant selecting a text from another discipline usually psychology and augmenting it with journal or conference papers that provide students with software engineering examples of experiments and empirical studies This book fills an important gap in the software engineering literature it provides a concise comprehensive look at an important aspect of software engineering experimental analysis of how well software engineering methods methodologies and processes work Since all of these change so rapidly in our field it is important to know how to evaluate new ones This book teaches how to go about doing this and thus is valuable not only for the software engineering student but also for the practicing software engineering professional who will be able to Evaluate software engineering techniques Determine the value or lack thereof of claims made about a software engineering method or process in published studies Finally this book serves as a valuable resource for the software engineering researcher

Intelligent Tutoring Systems in E-Learning Environments: Design, Implementation and Evaluation Stankov, Slavomir, Glavinic, Vlado, Rosic, Marko, 2010-07-31 This book addresses intelligent tutoring system ITS environments from the standpoint of information and communication technology ICT and the recent accomplishments within both the e learning paradigm and e learning systems Provided by publisher Proceedings, 2001 *26th Annual International Computer Software and Applications Conference* IEEE Computer Society, 2002 Collects the 172 papers presented during the August 2002 conference with the theme of Prolonging software life development and redevelopment The main subjects of the 38 sessions are component based software development software process quality control testing software evolution web based systems Fundamental Approaches to Software Engineering, 1999 **The British National**

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