
CONSTRAINT-BASED DESIGN RECOVERY FOR SOFTWARE REENGINEERING

Theory and Experiments

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Constraint Based Design Recovery For Software Reengineering

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Constraint Based Design Recovery For Software Reengineering:

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

Constraint-Based Design Recovery for Software Reengineering ,1998 Proceedings ,2000 This work contains the proceedings of the 8th International Workshop on Program Comprehension 2000 Papers address theories and models for software comprehension cognitive processes in program comprehension tools facilitating software comprehension and more **Cumulative Book Index** ,1998 A world list of books in the English language *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 sy **Fundamental Approaches to Software Engineering** ,1999 The British National Bibliography Arthur James Wells,1999

Proceedings, Fifth International Workshop on Computer-Aided Software Engineering Gene Forte,Hausi A. Müller,1992 American Book Publishing Record Cumulative 1998 R R Bowker Publishing,1999-03 **Book Review Index** ,2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index Proceedings of the ... International ACM SIGPLAN Conference on Principles and Practice of Declarative Programming ,2006 Principles and Practice of Declarative Programming ,2006 Index to IEEE Publications Institute of Electrical and Electronics Engineers,1998 Issues for 1973 cover the entire IEEE technical literature **The 14th IEEE International Conference on Automated Software**

Engineering IEEE Computer Society, 1999 Twenty five papers presented at the October 1999 conference are grouped into sessions having the broad topics of software synthesis requirements elicitation reuse test synthesis analysis verification transformation architecture and automated testing Among the topics are data mining library reuse patterns in user selected applications industrial applications of software synthesis via category theory automated translation of UML models of architectures for verification and simulation using SPIN verification of picture generated code evolving object oriented designs with refactorings automatically detecting mismatches during component based and model based development and an overview of Lutess a specification based tool for testing synchronous software There are also 25 short papers that represent novel work not yet fully mature No subject index Annotation copyrighted by Book News Inc Portland OR *Proceedings of the Joint 10th European Software Engineering Conference (ESEC) and the 13th ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE-13)* Harald Gall, 2005

Engineering Elizabeth Burd, Peter Aiken, Rainer Koschke, 2001 Thirty eight papers for the eighth Working Conference on Reverse Engineering held in Stuttgart in October 2001 The annual conference covers the theory and practice of recovering information from existing software and systems Papers cover topics including pre processing and parsing program slicin

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