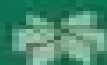# OBJECT-ORIENTED BEHAVIORAL SPECIFICATIONS

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Object Oriented Behavioral Specification

Michael Seilmaier

Object Oriented Behavioral Specification:

Object-Oriented Behavioral Specifications Haim Kilov,William Harvey,1996-09-30 Object Oriented Behavioral Specifications encourages builders of complex information systems to accelerate their move to using the approach of a scientific discipline in analysis rather than the approach of a craft The focus is on understanding customers needs and on precise specification of understanding gained through analysis Specifications must bridge any gaps in understanding about business rules among customers Subject Matter Experts and computer people must inform decisions about reuse of software and systems and must enable review of semantics over time Specifications need to describe semantics rather than syntax and to do that in an abstract and precise manner in order to create software systems that satisfy business rules The papers in this book show various ways of designing elegant and clear specifications which are reusable lead to savings of intellectual effort time and money and which contribute to the reliability of software and systems Object Oriented Behavioral Specifications offers a fresh treatment of the object oriented paradigm by examining the limitations of traditional OO methodologies and by describing the significance of competing trends in OO modeling The book builds on four years of successful OOPSLA workshops 1991 1995 on behavior semantics This book deals with precise specifications of what is accomplished by the business and what is to be done by a system The book includes descriptions of successful use of abstract and precise specification in industry It draws on the experience of experts from industrial and academic settings and benefits from international participation Collective behavior neglected in some treatment of the OO paradigm is addressed explicitly in this book The book does not take reuse of specifications or software for granted but furnishes a foundation for taking as rigorous an approach to reuse decisions as to precise specifications in original developments *Object-Oriented Behavioral Specifications* Haim Kilov,William Harvey,2007-08-20 Object Oriented Behavioral Specifications encourages builders of complex information systems to accelerate their move to using the approach of a scientific discipline in analysis rather than the approach of a craft The focus is on understanding customers needs and on precise specification of understanding gained through analysis Specifications must bridge any gaps in understanding about business rules among customers Subject Matter Experts and computer people must inform decisions about reuse of software and systems and must enable review of semantics over time Specifications need to describe semantics rather than syntax and to do that in an abstract and precise manner in order to create software systems that satisfy business rules The papers in this book show various ways of designing elegant and clear specifications which are reusable lead to savings of intellectual effort time and money and which contribute to the reliability of software and systems Object Oriented Behavioral Specifications offers a fresh treatment of the object oriented paradigm by examining the limitations of traditional OO methodologies and by describing the significance of competing trends in OO modeling The book builds on four years of successful OOPSLA workshops 1991 1995 on behavior semantics This book deals with precise specifications of what is accomplished by the business and what is to be done by a

system The book includes descriptions of successful use of abstract and precise specification in industry It draws on the experience of experts from industrial and academic settings and benefits from international participation Collective behavior neglected in some treatment of the OO paradigm is addressed explicitly in this book The book does not take reuse of specifications or software for granted but furnishes a foundation for taking as rigorous an approach to reuse decisions as to precise specifications in original developments   Behavioral Specifications of Businesses and Systems Haim Kilov,Bernhard Rumpe,Ian Simmonds,2013-03-09 Behavioral Specifications of Businesses and Systems deals with the reading writing and understanding of specifications The papers presented in this book describe useful and sometimes elegant concepts good practices in programming and in specifications and solid underlying theory that is of interest and importance to those who deal with increased complexity of business and systems Most concepts have been successfully used in actual industrial projects while others are from the forefront of research Authors include practitioners business thinkers academics and applied mathematicians These seemingly different papers address different aspects of a single problem taming complexity Behavioral Specifications of Businesses and Systems emphasizes simplicity and elegance in specifications without concentrating on particular methodologies languages or tools It shows how to handle complexity and specifically how to succeed in understanding and specifying businesses and systems based upon precise and abstract concepts It promotes reuse of such concepts and of constructs based on them without taking reuse for granted Behavioral Specifications of Businesses and Systems is the second volume of papers based on a series of workshops held alongside ACM s annual conference on Object Oriented Programming Systems Languages and Applications OOPSLA and European Conference on Object Oriented Programming ECOOP The first volume Object Oriented Behavioral Specifications edited by Haim Kilov and William Harvey was published by Kluwer Academic Publishers in 1996   **Collective Specification and Verification of Behavioral Models and Object-oriented Implementations** Qing Yi,Jianwei Niu,Anitha R. Marneni,2010 We present a finite state machine based language iFSM to seamlessly integrate the behavioral logic and implementation strategies of object oriented applications to prevent their design and implementation from being out of sync The language allows developers to focus on higher level abstractions to support software analysis and design instead of focusing on language or architecture specific details To support the language we provide a transformation engine which automatically translates iFSM specifications to lower level C Java implementations of object oriented classes The auto generated implementations from iFSM are similar in style to the manually written code so that they are readable and easily integrable with the existing code Our experiments show that their performance is similarly comparable to that of manually written programs We have automatically verified that these implementations are consistent with their behavioral models by translating iFSM specifications into the input language of model checker NuSMV   **Automatic Generation of Object-oriented Class Implementations from Behavioral Specifications** Anitha Rani Marneni,2010   *FM ... Formal Methods* ,1999

Proceedings ,1992 **Journal of Object-oriented Programming** ,2001 **Requirements Engineering** Roel Wieringa,1996-05-03 An analysis of product development Systems Product development Requirements specifications Requeriments engineering methods ISAC change analysis and activity study Information strategy planning The entity relationship approach I models The entity relationiship approach II methods Structured analysis I models Structured analysis II methods Jackson system development I models Jackson system development II methods Method integration and strategy selection A framework for requirements engineering I models A framework for requirements engineering II methods Development strategies Selecting a development strategy Answers to select exercises Cases An outline of some development methods **Masters Theses in the Pure and Applied Sciences** Sade H Shafer,1995 Cited in Sheehy Chen and Hurt Volume 38 thesis year 1993 reports a total of 13 787 thesis titles from 22 Canadian and 164 US universities As in previous volumes thesis titles are arranged by discipline and by university within each discipline Any accredited university or college with a grad **Proceedings of the 18th International Conference on Very Large Data Bases** Li-Yan Yuan,1992 **Proceedings of the 1994 International Conference on Computer Languages** ,1994 **International Conference on Simulation in Engineering Education** Hamid Vakilzadian,1992 COTS-based Software Systems ,2003 **Modularity in the Presence of Subclassing** Raymond Paul Stata,1997 Abstract Classes are harder to subclass than they need be This report addresses this problem showing how to design classes that are more modular and easier to subclass without sacrificing the extensibility that makes subclassing useful to begin with We argue that a class should have two interfaces an instance interface used by programmers manipulating instances of the class and a specialization interface used by programmers building subclasses of the class Instance interfaces are relatively well understood but design principles for specialization interfaces are not In the context of single inheritance we argue that specialization interfaces should be partitioned into class components A class component groups part of a class s state together with methods to maintain that state Class components establish abstraction boundaries within classes allowing modular replacement of components by subclasses Achieving this replaceability requires reasoning about each component as an independent unit that depends only on the specifications of other components and not on their implementations We introduce the concept of abstract representation to denote the view of a class s state given in its specialization interface This view is more detailed than the view used to describe instances of the class revealing details that describe the interfaces between class components It is less detailed than the actual implementation hiding implementation details that should not be exposed even to specializers We also consider multiple inheritance specifically Snyder s model of encapsulated multiple inheritance We advocate separating class components into individual classes called mixins Instantiable classes are built by combining multiple mixins With the mixin style of design class hierarchies have more classes than in equivalent single inheritance designs These classes have smaller simpler interfaces and can be reused more flexibly To explore the impact our ideas might have on program design we

consider classes from existing libraries in light of the proposed single and multiple inheritance methodologies To explore the impact our ideas might have on language design we present two different extensions to Java one that provides a level of static checking for single inheritance designs and another that adds the encapsulated model of multiple inheritance

Proceedings of the 8th International Conference on VLSI Design, January 4-7, 1995, New Delhi, India ,1995 Presents papers from the January 1995 conference Topics include routing hardware software design CAD sequential automatic test pattern generation logic synthesis VLSI arithmetic and chip design Includes tools and technology poster sessions and a panel discussion on India s role in the VLSI w   *First Asia-Pacific Software Engineering Conference* ,1994   Object Magazine ,1993   Proceedings IEEE Computer Society,1993   **Formal Description Techniques** Kenneth J. Turner,1989 Software tools papers Software tools demonstrations Object oriented design with FDTs Language issues arising practical use Theoretical aspects of analysis Experience in writing formal descriptions Practical aspects of analysis

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