

# OBJECT-ORIENTED BEHAVIORAL SPECIFICATIONS

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# Object Oriented Behavioral Specifications Author Haim Kilov Oct 2013

**Haim Kilov, Ken Baclavski**



## **Object Oriented Behavioral Specifications Author Haim Kilov Oct 2013:**

### **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

*Practical Foundations of Business System Specifications* Haim Kilov, Ken Baclavski, 2013-06-29 In the mathematics I can report no deficiency except that it be that men do not sufficiently understand the excellent use of the pure mathematics in that they do remedy and cure many defects in the wit and faculties intellectual For if the wit be too dull they sharpen it if too wandering they fix it if too inherent in the sense they abstract it Roger Bacon 1214 1294 Mathematics the art and science of effective reasoning E W Dijkstra 1976 A person who had studied at a good mathematical school can do anything Ye Buniimovich 2000 This is the third book published by Kluwer based on the very successful OOPSLA workshops on behavioral semantics the first two books were published in 1996 KH 1996 and 1999 KRS 1999 These workshops fostered precise and explicit specifications of business and system semantics independently of any possible realization Some progress has been made in these areas both in academia and in industry At the same time in too many cases only lip service to elegant specifications of semantics has been provided and as a result the systems we build or buy are all too often not what they are supposed to be We used to live with that and quite often users relied on human intermediaries to sort the things out This approach worked perfectly well for a long time Object-Oriented Behavioral Specifications Haim Kilov, William Harvey, 2013-03-17 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

Automatic Generation of Object-oriented Class Implementations from Behavioral Specifications Anitha

Rani Marneni,2010

**Workshop on Object-oriented Behavioral Semantics** Haim Kilov,Bernhard Rumpe,Ian

Simmonds,Technische Universität München. Institut für Informatik,1997

**OOPSLA 1994** Haim Kilov,Bill Harvey,Hafedh

Mili,Robert Morris College (Coraopolis, Pa.). Institute for Information Management,1994

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

Consistency Management of Object-oriented Behavioral Models Jochen M. Küster,2004

**Workshop Proceedings ,1993** **Object-Oriented Type**

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Heidi Jean Chapman Ellis,1990

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Specifying Behavioral Compositions in Object-oriented Systems A. R. Helm,I. M. Holland,D. Gangopadhyay,1990  
**Object-oriented Software Engineering** George Wilkie,1993

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