

OBJECT-ORIENTED BEHAVIORAL SPECIFICATIONS

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Object Oriented Behavioral Specifications Author Haim Kilov Oct 2013

A. El-Hassan,D. S. Bowers

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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 Bumimovich 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,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 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 Behaviour Specifications in Object-oriented Databases A. El-Hassan, D. S. Bowers, 1995

Consistency Management of Object-oriented Behavioral Models Jochen M. Küster, 2004 **Object-oriented Methods** Ian Graham, Alan O'Callaghan, Alan Cameron Wills, 2001 Since the previous edition of this popular and comprehensive book was published there have been massive changes in the field of object technology This book has been fully revised and updated to reflect the newest technologies and methodologies including extensive coverage of middleware components Java UML If you are a developer or manager needing to succeed with objects this book will give you a full understanding of the key concepts benefits and pitfalls plus what technologies and tools are available and how to evaluate them It offers invaluable insights into the philosophy and real world practice of today's leading object oriented techniques and products Major features of this edition detailed chapter covering middleware and migration strategies chapter describing best practice for analysis and design with in depth focus on architecture and patterns plus a concise presentation of the Catalysis method for component based development revised coverage of requirements featuring detailed description of the SOMA approach coverage of Java in addition to other object oriented programming languages Plus significantly revised coverage of object oriented databases to address new and increasingly mature products review of processes and project management including RUP and OPEN Process and guidance on testing and UI design new appendices summarizing the UML notation and background survey of 50 object oriented methods self test questions and model answers on accompanying web site www

trireme.com **Principles of Object-oriented Software Development** Anton Eliëns, 1995 Provides full coverage of object oriented technology paying equal attention to the underlying theory and to programming practice. The author shows object oriented concepts at all stages of the software life cycle. Separate tutorial sections on C, Smalltalk and Eiffel are included.

Behavioural Subtyping in Object-oriented Specification Formalisms Heike Wehrheim, 2002

Behaviour-refinement of Object-oriented Specifications with Coinductive Correctness Proofs Bart Jacobs, 1996

Object-Oriented Type Systems, 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.

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