



Constructing the  
**User Interface**  
with Statecharts

Ian Horrocks



ADDISON-WESLEY

# Constructing The User Interface With Statecharts

**Robert J.K. Jacob, Quentin  
Limbourg, Jean Vanderdonckt**



## **Constructing The User Interface With Statecharts:**

**Constructing the User Interface with Statecharts** Ian Horrocks,1999 Readers will learn how to design implement and test high quality user interface software rapidly while using it with any Graphic User Interface GUI development tool This book allows developers to work at the design level and never have to drop down the code **Interactive Systems. Design, Specification, and Verification** Joaquim Jorge,Nuno Jardim Nunes,Joao Falcao e Cunha,2003-12-15 This book constitutes the thoroughly refereed post proceedings of the 10th International Workshop on Design Specification and Verification of Interactive Systems DSV IS 2003 held in Funchal Madeira Island Portugal in June 2003 The 26 revised full papers and 5 revised short papers presented together with an invited paper have passed through two rounds of reviewing selection and improvement The papers are organized in topical sections on test and evaluation Web and groupware tools and technologies task modeling model based design mobile and multiple devices UML and specification languages **Taming HAL** Asaf Degani,2004-01-17 Machines dominate our lives from alarm clocks that wake us up in the morning to radios that lull us to sleep Most of our interactions with automated machines and computers are problem free but more often than we would like they can be irritating and confusing This is frequently harmless such as a VCR recording the wrong show but when it involves a critical system like an autopilot or medical device it can be a matter of life or death Taming HAL seeks to explain these miscommunications between humans and machines by exploring user interfaces of everyday devices Degani examines thirty different systems for human use including watches consumer electronic products Internet applications cars medical equipment navigation systems onboard cruise ships and autopilots of commercial aircraft Readers will discover why interfaces between people and machines all too often do not work and what needs to be done to avoid potential tragedies

**The Handbook of Task Analysis for Human-Computer Interaction** Dan Diaper,Neville Stanton,2003-09-01 A comprehensive review of the current state of research and use of task analysis for Human Computer Interaction HCI this multi authored and diligently edited handbook offers the best reference source available on this diverse subject whose foundations date to the turn of the last century Each chapter begins with an abstract and is cross referen

**Computer-Aided Design of User Interfaces IV** Robert J.K. Jacob,Quentin Limbourg,Jean Vanderdonckt,2006-03-07 Computer Aided Design of User Interfaces IV gathers the latest research of experts research teams and leading organisations involved in computer aided design of user interactive applications supported by software with specific attention for platform independent user interfaces and context sensitive or aware applications This includes innovative model based and agent based approaches code generators model editors task animators translators checkers advice giving systems and systems for graphical and multimodal user interfaces It also addresses User Interface Description Languages This books attempts to emphasize the software tool support for designing user interfaces and their underlying languages and methods beyond traditional development environments offered by the market It will be of interest to software development practitioners and

researchers whose work involves human computer interaction design of user interfaces frameworks for computer aided design formal and semi formal methods web services and multimedia systems interactive applications and graphical user and multi user interfaces Visual Languages for Interactive Computing Fernando Ferri,2008-01-01 This book presents problems and methodologies related to the syntax semantics and ambiguities of visual languages It defines and formalizes visual languages for interactive computing as well as visual notation interpretation Provided by publisher ACM Transactions on Computer-human Interaction ,2004 Presents original research that spans the field of human computer interaction The primary emphasis has been on results of broad application but the journal also publishes work focused on special domains on special requirements on ethical issues the full range of design development and use of interactive systems

**Universal Access in Human Computer Interaction. Coping with Diversity** Constantine Stephanidis,2007-08-24 This is the first of a three volume set that constitutes the refereed proceedings of the 4th International Conference on Universal Access in Human Computer Interaction UAHCI 2007 held in Beijing China It covers designing for universal access universal access methods techniques and tools understanding motor diversity perceptual and cognitive abilities as well as understanding age diversity *Handbook of Research on User Interface Design and Evaluation for Mobile Technology* Lumsden, Joanna,2008-02-28 This book compiles authoritative research from scholars worldwide covering the issues surrounding the influx of information technology to the office environment from choice and effective use of technologies to necessary participants in the virtual workplace Provided by publisher *Proceedings of the XIVth Triennial Congress of the International Ergonomics Association and 44th Annual Meeting of the Human Factors and Ergonomics Society : Ergonomics for the New Millennium* International Ergonomics Association. Congress,2000 *Advanced Information Systems Engineering* ,2001 **Guide to the Software Engineering Body of Knowledge** Alain Abran,James W. Moore,2001

*The Unified Modeling Language* ,2003 Mobile Interaction Design Matt Jones,Gary Marsden,2006-02-03 Mobile Interaction Design covers important issues relating to this ever changing technology including developing interfaces and devices with a great deal of sensitivity to human needs desires and capabilities This book is written to inspire and challenge designers preconceived notions of this marketplace and to convey lessons learned and principles involved in the development and deployment of interactive systems to the mobile environment **Cumulated Index to the Books** ,1999 **IHM-HCI 2001** Jean Vanderdonckt,Ann Blandford,Alain Derycke,2001 **Software Engineering** Doug Bell,2000 Software Engineering A Programming Approach provides a unique introduction to software engineering for all students of computer science and its related disciplines It is also ideal for practitioners in the software industry who wish to keep track of new developments in the discipline The third edition is an update of the original text written by Bell Morrey and Pugh and further develops the programming approach taken by these authors The new edition however being updated by a single author presents a more coherent and fully integrated text It also includes recent developments in the field and new chapters include

those on formal development software management prototyping process models and user interface design The programming approach emphasized in this text builds on the reader's understanding of small scale programming and extends this knowledge into the realm of large scale software engineering This helps the student to understand the current challenges of software engineering as well as developing an understanding of the broad range of techniques and tools that are currently available in the industry Particular features of the third edition are a pragmatic non mathematical approach an overview of the software development process is included self test questions in each chapter ensure understanding of the topic extensive exercises are provided at the end of each chapter an accompanying website extends and updates material in the book use of Java throughout as an illustrative programming language consistent use of UML as a design notation Douglas Bell is a lecturer at Sheffield Hallam University England He has authored and co authored a number of texts including most recently Java for Students

**Specification Mining on the User Interface Level** Fabian Richter, 2020-10-20 Master's Thesis from the year 2012 in the subject Computer Science Software grade 1.0 Technical University of Darmstadt Secure Software Engineering Group language English abstract In this thesis we propose another approach targeted at web applications that use Ajax HTML5 and other modern web technologies to achieve a look and feel that is only known by desktop applications These web applications are also referred to as Rich Internet Application RIA The user interface is a part of an application the same way its business logic is This requires software engineers to test the user interface to verify its correctness to the same extent they test the rest of the application But testing graphical user interfaces is a tedious task without standardized testing technologies engineers use for business logic verification like unit testing To address this shortcoming research groups applied the concept of model based testing to user interface testing In model based testing an abstraction of the actual graphical user interface is used and test sequences are generated from the model The model as a formal specification can also be checked by a model checker or pose as a test oracle to validate the correctness of the application Ideally such a model or specification can be generated or mined by an automated process This process is usually referred to as specification mining and relieves the test engineer of the task to keep the specification up to date Many tools and approaches have been proposed to target different kinds of applications and properties that the mining tool infers At Europe's biggest software company SAP where this thesis was manufactured many RIAs are being developed based on a user interface library called SAPUI5 This library helps developers to create uniform looking RIAs To test their graphical user interface and ensure quality software our approach supports this testing process by using a web crawler known from search engines to automatically infer a specification or model from these interfaces We achieved this by modifying the Ajax capable crawler Crawljax by A Mesbah and using a new more efficient and modular state abstraction based on XPath expressions Our CrawljaxXT also addresses many bugs and shortcomings of the original Crawljax and thus allows for reliable creation of complete user interface models without overly detailed state abstractions Concluding we successfully evaluated our mined models and its

testing capabilities with a modified version of the free model based testing tool Graphwalker      **Software Engineering**  
James F. Peters, Witold Pedrycz, 2000 A clear cut practical approach to software development Emphasizing both the design and analysis of the technology Peters and Pedrycz have written a comprehensive and complete text on a quantitative approach to software engineering As you read the text you ll learn the software design practices that are standard practice in the industry today Practical approaches to specifying designing and testing software as well as the foundations of Software Engineering are also presented And the latest information in the field additional experiments and solutions to selected problems are available at the authors s web site <http://www.ee.umanitoba.ca/clib/main.html> Key Features Thorough coverage is provided on the quantitative aspects of software Engineering including software measures software quality software costs and software reliability A complete case study allows students to trace the application of methods and practices in each chapter Examples found throughout the text are in C and Java A wide range of elementary and intermediate problems as well as more advanced research problems are available at the end of each chapter Students are given the opportunity to expand their horizons through frequent references to related web pages      *C/C++ Users Journal* ,2003

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