

# Formal Methods for Interactive Systems



Alan John Dix

# Formal Methods For Interactive Systems

**Panos Markopoulos, Peter Johnson**



## **Formal Methods For Interactive Systems:**

**Formal Methods for Interactive Systems** Alan Dix, 1991 This essential book addresses the problems governing the usability of computer interfaces These problems are approached from the angle of the mathematical modeling of interactive systems By modeling various facets of the system such as windows real time phenomena and dynamic pointers the book demonstrates how formal methods of software engineering particularly functional programming can be used to enhance the efficiency and usability of interactive systems This book will be accessible and invaluable to researchers and students in the fields of HCI and formal methods for software engineering Employs a novel approach to HCI in using formal methods for evaluation and design Brings mathematical rigor to interface modeling Provides formalisms for the design of safety critical systems Outlines abstract models of interaction

*Formal Methods and Interactive Systems* Alan John Dix, University of York, University of York. Department of Computer Science, 1987

*The Handbook of Formal Methods in Human-Computer Interaction* Benjamin Weyers, Judy Bowen, Alan Dix, Philippe Palanque, 2017-04-24 This book provides a comprehensive collection of methods and approaches for using formal methods within Human Computer Interaction HCI research the use of which is a prerequisite for usability and user experience UX when engineering interactive systems World leading researchers present methods tools and techniques to design and develop reliable interactive systems offering an extensive discussion of the current state of the art with case studies which highlight relevant scenarios and topics in HCI as well as presenting current trends and gaps in research and future opportunities and developments within this emerging field The Handbook of Formal Methods in Human Computer Interaction is intended for HCI researchers and engineers of interactive systems interested in facilitating formal methods into their research or practical work

*Special Issue: Formal Methods for Interactive Systems*, 2015

*Formal Methods for Interactive Systems* Alan Dix, 1991 This essential book addresses the problems governing the usability of computer interfaces These problems are approached from the angle of the mathematical modeling of interactive systems By modeling various facets of the system such as windows real time phenomena and dynamic pointers the book demonstrates how formal methods of software engineering particularly functional programming can be used to enhance the efficiency and usability of interactive systems This book will be accessible and invaluable to researchers and students in the fields of HCI and formal methods for software engineering Employs a novel approach to HCI in using formal methods for evaluation and design Brings mathematical rigor to interface modeling Provides formalisms for the design of safety critical systems Outlines abstract models of interaction

*Interactive Systems: Design, Specification, and Verification* Bodo Urban, Jean Vanderdonckt, Quentin Limbourg, 2003-07-01 This book constitutes the thoroughly refereed post proceedings of the 9th International Workshop on the Design Specification and Verification of Interactive Systems DSV IS 2002 held in Rostock Germany in June 2002 The 19 revised full papers presented have gone through two rounds of reviewing selection and improvement All aspects of the design specification and verification of interactive systems from the human

computer interaction point of view are addressed Particular emphasis is given to models and their role in supporting the design and development of interactive systems and user interfaces for ubiquitous computing

**Formal Methods. FM 2019 International Workshops** Emil Sekerinski, Nelma Moreira, José N. Oliveira, Daniel Ratiu, Riccardo Guidotti, Marie Farrell, Matt Luckcuck, Diego Marmosler, José Campos, Troy Astarte, Laure Gonnord, Antonio Cerone, Luis Couto, Brijesh Dongol, Martin Kutrib, Pedro Monteiro, David Delmas, 2020-08-12 This book constitutes the refereed proceedings of the workshops which complemented the 23rd Symposium on Formal Methods FM 2019 held in Porto Portugal in October 2019 This volume presents the papers that have been accepted for the following workshops Third Workshop on Practical Formal Verification for Software Dependability AFFORD 2019 8th International Symposium From Data to Models and Back DataMod 2019 First Formal Methods for Autonomous Systems Workshop FMAS 2019 First Workshop on Formal Methods for Blockchains FMBC 2019 8th International Workshop on Formal Methods for Interactive Systems FMIS 2019 First History of Formal Methods Workshop HFM 2019 8th International Workshop on Numerical and Symbolic Abstract Domains NSAD 2019 9th International Workshop on Open Community Approaches to Education Research and Technology OpenCERT 2019 17th Overture Workshop Overture 2019 19th Refinement Workshop Refine 2019 First International Workshop on Reversibility in Programming Languages and Automata RPLA 2019 10th International Workshop on Static Analysis and Systems Biology SASB 2019 and the 10th Workshop on Tools for Automatic Program Analysis TAPAS 2019

*Design, Specification and Verification of Interactive Systems '98* Panos Markopoulos, Peter Johnson, 2013-11-11 Does modelling formal or otherwise play a role in designing interactive systems A proliferation of interactive devices and technologies is used in an ever increasing diversity of contexts and combinations in professional and every day life This development poses a significant challenge to modelling approaches used for the design of interactive systems The papers in this volume discuss a range of modelling approaches the representations they use the strengths and weaknesses of their associated specification and analysis techniques and their role in supporting the design of interactive systems

**Engineering Interactive Systems** Jan Gulliksen, Morten Borup Harning, Philippe Palanque, Gerrit C. van der Veer, Janet Wesson, 2008-12-23 Engineering Interactive Systems 2007 is an IFIP working conference that brings together researchers and practitioners interested in strengthening the scientific foundations of user interface design examining the relationship between software engineering SE and human computer interaction HCI and on how user centered design UCD could be strengthened as an essential part of the software engineering process Engineering Interactive Systems 2007 was created by merging three conferences HCSE 2007 Human Centered Software Engineering held for the first time The HCSE Working Conference is a multidisciplinary conference entirely dedicated to advancing the basic science and theory of human centered software systems engineering It is organized by IFIP WG 13.2 on Methodologies for User Centered Systems Design EHCI 2007 Engineering Human Computer Interaction was held for the tenth time EHCI aims to investigate the nature concepts and construction of user interfaces for software

systems It is organized by IFIP WG 13.4.2.7 on User Interface Engineering DSV IS 2007 Design Specification and Verification of Interactive Systems was held for the 13th time DSV IS provides a forum where researchers working on model based techniques and tools for the design and development of interactive systems can come together with practitioners and with those working on HCI models and theories

Design, Specification and Verification of Interactive Systems '96 Francois Bodart, Jean Vanderdonckt, 2012-12-06 Making systems easier to use implies an ever increasing complexity in managing communication between users and applications Indeed an increasing part of the application code is devoted to the user interface portion In order to manage this complexity it is important to have tools notations and methodologies which support the designer's work during the refinement process from specification to implementation Selected revised papers from the Eurographics workshop in Namur review the state of the art in this area comparing the different existing approaches to this field in order to identify the principle requirements and the most suitable notations and indicate the meaningful results which can be obtained from them

Formal Methods in Human-Computer Interaction Philippe Palanque, Fabio Paterno, 2012-12-06 Formal methods have already been shown to improve the development process and quality assurance in system design and implementation This volume examines whether these benefits also apply to the field of human computer interface design and implementation and whether formal methods can offer useful support in usability evaluation and obtaining more reliable implementations of user requirements Its main aim is to compare the different approaches and examine which particular type of implementation and problem each one is best suited to To enable the reader to compare and contrast the approaches as easily as possible each one is applied to the same case study the specification of an ideal Netscape like web browser and html page server The resulting volume will provide invaluable reading for final year undergraduate and postgraduate courses on user interfaces user interface design and applications of formal methods

*Interactive Systems: Design, Specification, and Verification* Fabio Paterno, 2012-12-06 Making systems easier to use implies increasingly complex management of communication between users and applications An increasing part of the application program is devoted to the user interface In order to manage this complexity it is very important to have tools notations and methodologies that support the designer's work during the refinement process from specification to implementation The purpose of this proceedings of the first 1994 Eurographics workshop on this area is to review the state of the art It compares the different existing approaches in order to identify the principal requirements and the most suitable notations and methods and indicates the relevant results

Integrated Formal Methods Wolfgang Grieskamp, Thomas Santen, Bill Stoddart, 2007-10-23

Integrated Formal Methods Eerke Boiten, John Derrick, Graeme Smith, 2004-03-24 This book constitutes the refereed proceedings of the 4th International Conference on Integrated Formal Methods IFM 2004 held in Canterbury UK in April 2004 The 24 revised full papers presented together with 3 invited papers and one invited tutorial chapter were carefully reviewed and selected from 65 submissions The papers are devoted to automating program analysis state event based verification formalizing graphical

notions refinement object orientation hybrid and timed automata integration frameworks verifying interactive systems and testing and assertions

**Design, Specification and Verification of Interactive Systems '95** Philippe Palanque, Rémi Bastide, 2012-12-06 This book is the final outcome of the Eurographics Workshop on Design Specification and Verification of Interactive Systems that was held in Bonas from June 7 to 9 1995 This workshop was the second of its kind following the successful first edition in Italy in 1994 The goal of this ongoing series of meetings is to review the state of the art in the domain of tools notations and methodologies supporting the design of Interactive Systems This acknowledges the fact that making systems that are friendlier to the user makes the task ever harder to the designers of such systems and that much research is still needed to provide the appropriate conceptual and practical tools The workshop was located in the Chateau de Bonas in the distant countryside of Toulouse France Tms location has been selected to preserve the quiet and studious atmosphere that was established in the monastery of Santa Croce at Bocca di Magra for the first edition and that was much enjoyed by the participants The conversations initiated during the sessions often lasted till late at night in the peaceful atmosphere of the Gers landscape

**Software Engineering and Formal Methods** Javier Camara, Martin

Steffen, 2020-09-09 The volume LNCS 12226 constitutes the revised selected papers from the four workshops collocated with the 17th International Conference on Software Engineering and Formal Methods SEFM 2019 The 13 full papers presented together with 7 short papers in this volume were carefully reviewed and selected from a total of 45 submissions They stem from the following workshops CoSim CPS 2019 3rd International Workshop on Formal Co Simulation of Cyber Physical Systems ASYDE 2019 1st International Workshop on Cognition Interdisciplinary Foundations Models and Applications and FOCLASA 2019 17th International Workshop on Foundations of Coordination Languages and Self Adaptive Systems

*Engineering Human Computer Interaction and Interactive Systems* Rémi Bastide, Philippe Palanque, Jörg Roth, 2005-07-11 As its name suggests the EHCI DSVIS conference has been a special event merging two different although overlapping research communities EHCI Engineering for Human Computer Interaction is a conference organized by the IFIP 2 7 13 4 working group started in 1974 and held every three years since 1989 The group's activity is the scientific investigation of the relationships among the human factors in computing and software engineering DSVIS Design Specification and Verification of Interactive Systems is an annual conference started in 1994 and dedicated to the use of formal methods for the design of interactive systems Of course these two research domains have a lot in common and are informed by each other's results The year 2004 was a good opportunity to bring closer these two research communities for an event the 11th edition of DSVIS and the 9th edition of EHCI EHCI DSVIS was set up as a working conference bringing together researchers and practitioners interested in strengthening the scientific foundations of user interface design specification and verification and in examining the relationships between software engineering and human computer interaction The call for papers attracted a lot of attention and we received a record number of submissions out of the 65 submissions 23 full papers were accepted which

gives an acceptance rate of approximately 34% Three short papers were also included The contributions were categorized in 8 chapters Chapter 1 Usability and Software Architecture contains three contributions which advance the state of the art in usability approaches for modern software engineering Interactive Systems. Design, Specification, and Verification T. C. Nicholas Graham, Philippe Palanque, 2008-07-01 The modern world has made available a wealth of new possibilities for interacting with computers through advanced Web applications while on the go with handheld smart telephones or using electronic tabletops or wall sized displays Developers of modern interactive systems face great problems how to design applications which will work well with newly available technologies and how to efficiently and correctly implement such designs Design Specification and Verification of Interactive Systems 2008 was the 15th of a series of annual workshops devoted to helping designers and implementers of interactive systems unleash the power of modern interaction devices and techniques DSV IS 2008 was held at Queen s University in Kingston Canada during July 16 18 2008 This book collects the best papers submitted to the workshop There were 17 full papers 10 late breaking and experience report papers and two demonstrations Keynote presentations were provided by Judy Brown of Carleton University and Randy Ellis of Queen s University The first day of the workshop addressed the problems of user interface evaluation and specification with particular emphasis on the use of task models to provide hi level approaches for capturing the intended functionality of a user interface Day two continued this theme examining techniques for modeling user interfaces particularly for mobile and ubiquitous applications Presenters also discussed advanced implem tation techniques for interactive systems Finally day three considered how to arc tect interactive systems and returned to the themes of evaluation and specification

**Integrated Formal Methods** Einar Broch Johnsen, Luigia Petre, 2013-05-13 This book constitutes the refereed proceedings of the 10th International Conference on Integrated Formal Methods IFM 2013 held in Turku Finland in June 2013 The 25 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 84 full paper submissions The papers cover the spectrum of integrated formal methods focusing on refinement integration translation verification reachability and model checking usability and testing distributed systems semantics and system level analysis **Interactive Systems. Design, Specification, and Verification** Philippe Palanque, Fabio Paterno, 2003-06-29 The wait for the year 2000 was marked by the fear of possible bugs that might have arisen at its beginning One additional fear we had during this wait was whether ganising this event would have generated a boon or another bug The reasons for this fear originated in the awareness that the design of interactive systems is a fast moving area The type of research work presented at this unique event has received limited support from funding agencies and industries making it more difficult to keep up with the rapid technological changes occurring in interaction technology However despite our fear the workshop was successful because of the high quality level of participation and discussion Before discussing such results let us step back and look at the evolution of DSV IS Design Specification and Verification of Interactive Systems an international wo

shop that has been organised every year since 1994 The first books that addressed this issue in a complete and thorough manner were the collection of contributions edited by Harrison and Thimbleby and the book written by Alan Dix which focused on abstractions useful to highlight important concepts in the design of interactive systems Since then this area has attracted the interest of a wider number of research groups and some workshops on related topics started to be organised DSV IS had its origins in this spreading and growing interest The first workshop was held in a monastery located in the hills above Bocca di Magra Italy

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