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Specification of Interactive  
Graphics Programming  
Languages (ACM  
distinguished dissertations)**

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# Formal Specification Of Interactive Graphics Programming Languages

**Gerald Garcia, Ivan Herman**



## **Formal Specification Of Interactive Graphics Programming Languages:**

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**Specification of Interactive Graphics Programming Languages** William R. Mallgren, 1985 **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 **A Formal Model of Visualization in Computer Graphics Systems** Tamiya

Onodera, Satoru Kawai, 1990-04-04 The 18 research articles of this volume discuss the major themes that have emerged from mathematical and statistical research in the epidemiology of HIV The opening paper reviews important recent contributions Five sections follow Statistical Methodology and Forecasting Infectivity and the HIV Heterogeneity and HIV Transmission Dynamics Social Dynamics and AIDS and The Immune System and The HIV In each leading experts in AIDS epidemiology present the recent results Some address the role of variable infectivity heterogeneous mixing and long periods of infectiousness in the dynamics of HIV others concentrate on parameter estimation and short term forecasting The last section looks at the interaction between the HIV and the immune system **Theoretical Foundations of Computer Graphics and CAD** Rae A. Earnshaw, 1988 This volume provides an analysis and exposition of the theoretical bases for computer graphics and CAD in order to give our understanding and exploitation of them a more rigorous and comprehensive basis This bridging of the gap between theory and practice in a systematic and detailed way is of great interest at the present time The extensive and detailed reference material in this volume has not been published previously The wide range of the material provides the reader with a standard reference book **Formal Methods for Protocol Engineering and**

**Distributed Systems** Jianping Wu, Samuel T. Chanson, Quiang Gao, 2013-06-05 Formal Methods for Protocol Engineering and Distributed Systems addresses formal description techniques FDTs applicable to distributed systems and communication protocols It aims to present the state of the art in theory application tools an industrialization of FDTs Among the important features presented are FDT based system and protocol engineering FDT application to distributed systems Protocol

engineering Practical experience and case studies Formal Methods for Protocol Engineering and Distributed Systems contains the proceedings of the Joint International Conference on Formal Description Techniques for Distributed Systems and Communication Protocols and Protocol Specification Testing and Verification which was sponsored by the International Federation for Information Processing IFIP and was held in Beijing China in October 1999 This volume is suitable as a secondary text for a graduate level course on Distributed Systems or Communications and as a reference for researchers and industry practitioners

Formal Methods in Standards Clive L.N. Ruggles, 2012-12-06 3 1 What are formal methods 17 3 2 A survey of formal methods 18 3 2 1 FDTs and FSLs for sequential software 18 3 2 1 1 VDM Vienna Development Method 19 3 2 1 2 Z 20 3 2 1 3 me too 20 3 2 1 4 HOS and AXES 20 3 2 1 5 Gist 20 3 2 1 6 Clear 21 3 2 1 7 OBJ 21 3 2 1 8 ACT ONE and ACT TWO 21 3 2 1 9 CIP L 21 3 2 1 10 LPG 21 3 2 1 11 Larch 21 3 2 1 12 Logic languages the Prolog family 22 3 2 1 13 Functional languages 22 3 2 2 FDTs and FSLs for concurrent software 22 3 2 2 1 LOTOS 23 3 2 2 2 Estelle 24 3 2 2 3 SDL 24 3 2 2 4 ASN 1 24 3 2 2 5 TTCN 25 3 2 2 6 Gypsy 25 3 2 3 Graphical formalisms 25 3 2 3 1 Petri nets 25 3 2 3 2 Higraphs 25 3 2 4 Less formal methods and notations 26 3 2 4 1 SADT 26 3 2 4 2 Structured Design 26 3 2 4 3 SSADM and LSDM 26 3 2 4 4 JSPandJSD 26 3 2 4 5 HDM and the SPECIAL language 27 3 2 4 6 Structured analysis and design of real time systems 27 3 3 Support tools for FDTs

Advances in Computer Graphics Gerald Garcia, Ivan Herman, 2012-12-06 This book is a collection of several tutorials from the EUROGRAPHICS 90 conference in Montreux The conference was held under the motto IMAGES Synthesis Analysis and Interaction and the tutorials partly presented in this volume reflect the conference theme As such this volume provides a unique collection of advanced texts on traditional computer graphics as well as of tutorials on image processing and image reconstruction As with all the volumes of the series Advances in Computer Graphics the contributors are leading experts in their respective fields The chapter Design and Display of Solid Models provides an extended introduction to interactive graphics techniques for design fast display and high quality rendering of solid models The text focuses on techniques for Constructive Solid Geometry CSG The following topics are treated in depth interactive design techniques specification of curves surfaces and solids graphical user interfaces procedural languages and direct manipulation and display techniques depth buffer scan line and ray tracing techniques CSG classification techniques efficiency improving methods software and hardware implementations

**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

Computers and Informatics in Developing Countries D.B. Arnold, D.A. Duce, 2014-05-20 ISO Standards for Computer Graphics The First Generation discusses the expected standards in the quality of computer graphics the aspects and examples of said standards and the materials from the standards being described The book is divided into six parts Part 1 covers topics such as the applicability of first generation ISO standards software architecture application program interface device interface metafile archive and language binding standards and the ISO and its related bodies Part 2 deals with topics such as output primitives and attributes coordinate systems and storage mechanisms The third part talks about language bindings encodings and formal specifications The fourth part tackles validation and testing conformance testing of graphic standards and the registration of graphical items The book also discusses the status and future direction of ISO standards for computer graphics it also presents in the last part the bibliography of the included topics glossary on related bodies and the formal specification of a part of GKS The text is recommended for computer engineers IT experts and graphic designers who would like to know the ISO standards for computer graphics and its implications in their practice **User Interface**

**Management Systems** Günther E. Pfaff, 2012-12-06 The book contains the proceedings and reports of the Workshop on User Interface Management Systems held in Seeheim Federal Republic of Germany November 1-3 1983 The workshop brought together experts in using and developing techniques for managing the dialogue between users and interactive graphics systems The purpose of the workshop was to produce an agreed report contrasting existing approaches and outlining directions for future work Four different areas were defined and addressed at the workshop namely a role model structure and construction of a UIMS b dialogue specification tools c interface of the UIMS to the application d user's conceptual model All participants prepared papers each in one of those problem areas The papers have been rewritten in the light of the issues discussed during the workshop Also a subgroup report was produced for each problem area summarizing the results of the discussions at the workshop Preface User Interface Management Systems UIMS are the mediators between the user and the application programs As more and more interactive programs become widely available methods and techniques of designing and implementing acceptable user interfaces have to be investigated Since many years research on the design of user interface management systems is going on This EUROGRAPHICS Workshop follows from the ACM SIGGRAPH Workshop on Graphical Input and Interaction Techniques of May 1982 in Seattle see Computer Graphics 17 1 1983 and the IFIP WG 5 **New Trends in Computer Graphics** Nadia Magnenat-Thalmann, Daniel Thalmann, 2012-12-06

New Trends in Computer Graphics contains a selection of research papers submitted to Computer Graphics International 88 COL 88 COL 88 is the Official Annual Conference of the Computer Graphics Society Since 1982 this conference has been held in Tokyo This year it is taking place in Geneva Switzerland In 1989 it will be held in Leeds U K in 1990 in Singapore in 1991 in U S A and in 1992 in Montreal Canada Over 100 papers were submitted to CGI 88 and 61 papers were selected by the International Program Committee Papers have been grouped into 6 chapters The first chapter is dedicated to Computer

Animation because it deals with all topics presented in the other chapters Several animation systems are described as well as specific subjects like 3D character animation quaternions and splines The second chapter is dedicated to papers on Image Synthesis in particular new shading models and new algorithms for ray tracing are presented Chapter 3 presents several algorithms for geometric modeling and new techniques for the creation and manipulation of curves surfaces and solids and their applications to CAD In Chapter 4 an important topic is presented the specification of graphics systems and images using languages and user interfaces The last two chapters are devoted to applications in sciences medicine engineering art and business

**Formal Specification of Interactive Graphics Programming Languages** William Roberts Mallgren, 1983 Documents a method for specifying all parts of interactive graphics programming languages Contributions include a language framework that facilitates specification a new specification technique that encompasses interactive control constructs

The Mathematical Structure of Raster Graphics Eugene L. Fiume, 2014-05-10 The Mathematical Structure of Raster Graphics presents a mathematical characterization of the structure of raster graphics a popular and diverse form of computer graphics The semantics and theory of the mathematical structure of raster graphics are discussed Notations that help to clarify some of the concepts generally considered to be fundamental to computer graphics are included Comprised of seven chapters this book begins with a description of a general framework for specifying and manipulating scenes Basic graphic entities called primitive graphic objects are defined using a simple notation over a Euclidean space The reader is then introduced to a semantics of visibility a mathematical semantics of rendering developed using the very basic notion of measure and a mathematical formalization of bit mapped graphics A framework for specifying illumination models is also described along with the complexity of abstract ray tracing This monograph will be a useful resource for undergraduate and graduate students researchers and practitioners in the fields of mathematics and computer graphics and to those with some basic computer graphics background

**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

**Algebraic Specifications in Software Engineering** Ivo Van Horebeek, Johan Lewi, 2012-12-06 I prefer to view formal methods as tools the use of which might be helpful E W Dijkstra Algebraic specifications are about to be accepted by industry Many projects in which algebraic specifications have been used as a design tool have been carried out What prevents algebraic specifications from breaking through is the absence of introductory descriptions and tools supporting the construction of algebraic specifications On the one hand interest from

industry will stimulate people to make introductions and tools whereas on the other hand the existence of introductions and tools will stimulate industry to use algebraic specifications This book should be seen as a contribution towards creating this virtuous circle The book will be of interest to software designers and programmers It can also be used as material for an introductory course on algebraic specifications and software engineering at undergraduate or graduate level Nowadays there is general agreement that in large software projects appropriate specifications are a must in order to obtain quality software Informal specifications alone are certainly not appropriate because they are incomplete inconsistent inaccurate and ambiguous and they rapidly become bulky and therefore useless The only way to overcome this problem is to use formal specifications An important remark here is that a specification formalism language alone is not sufficient What is also needed is a design method to write specifications in that formalism

*Database and Expert Systems Applications* A Min Tjoa, Isidro Ramos, 2012-12-06 The Database and Expert Systems Application DEXA conferences are mainly oriented to establish a state of the art forum on Database and Expert System applications But Practice without Theory has no sense as Leonardo said five centuries ago In this Conference we try a compromise between these two complementary aspects A total of 5 sessions are application oriented ranging from classical applications to more unusual ones in Software Engineering Recent research aspects in Databases such as activity deductivity and or Object Orientation are also present in DEXA 92 as well as the implication of the new data models such as OO Model Deductive Model etc included in the Modelling sessions Other areas of interest such as Hyper Text and Multimedia application together with the classical field of Information Retrieval are also considered Finally Implementation Aspects are reflected in very concrete fields A total of of nearly 200 papers submitted from all over the world were sent to DEXA 92 Only 90 could be accepted A Poster session has also been established DEXA 90 was held in Vienna Austria DEXA 91 in Berlin Germany and DEXA 92 will take place in Valencia Spain where we are celebrating the discovery of the New World just five centuries ago in Leonardo's age Both the quality of the Conference and the compromise between Practice and Theory are due to the credit of all the DEXA 92 authors

**Formal Methods and Software Development. Proceedings of the International Joint Conference on Theory and Practice of Software Development (TAPSOFT), Berlin, March 25-29, 1985** Hartmut Ehrig, Christiane Floyd, Maurice Nivat, James

Thatcher, 1985-03-01 *Advances in Computing and Information - ICCI '90* Selim G. Akl, F. Fiala, 1990 This volume contains selected and invited papers presented at the International Conference on Computing and Information ICCI 90 Niagara Falls Ontario Canada May 23-26 1990 ICCI conferences provide an international forum for presenting new results in research development and applications in computing and information Their primary goal is to promote an interchange of ideas and cooperation between practitioners and theorists in the interdisciplinary fields of computing communication and information theory The four main topic areas of ICCI 90 are Information and coding theory statistics and probability Foundations of computer science theory of algorithms and programming Concurrency parallelism communications networking computer

architecture and VLSI Data and software engineering databases expert systems information systems decision making and AI methodologies      **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



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