

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

MALLGREN, WR

Formal Specification Of Interactive Graphics Programming Languages

Fabio Paterno



Formal Specification Of Interactive Graphics Programming Languages:

Formal Specification of Interactive Graphics Programming Languages William R. Mallgren, 1985 *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 **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 **Formal Methods in Standards** Clive L.N. Ruggles, 2012-12-06

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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 *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 **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 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

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 **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

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

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

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

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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

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 13 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 in teractive programs become widely available methods and techniques of designing and implementing acceptable user interfaces have to be inves tigated Since many years research on the design of user interface mana gement systems is going on This EUROGRAPHICS Workshop follows from the ACM SIGGRAPH Workshop on Graphical Input and Interac tion Techniques of May 1982 in Seattle see Computer Graphics 17 1 1983 and the IFIP WG 5

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 Formal Methods and Software Development Hartmut Ehrig,1985

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

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

3D Interactive Computer Graphics Wim J. Teunissen,Jan van den Bos,1990

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