

Cgm And Cgi Metafile And Interface Standards For Computer Graphics

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 Object-Oriented Graphics
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SKINNER CHASE

Connecting Islands of Automation Through Databases Springer Science & Business Media
 Interest in product data exchange and interfaces in the CAD/CAM area is steadily growing. The rapidly increasing graphics applications in engineering and science has led to a great variety of heterogeneous hardware and software products. This has become a major obstacle in the progress of systems integration. To improve this situation CAD/CAM users have called for specification and implementation of standardized product data interfaces. These needs resulted in the definition of preliminary standards in this area. Since 1975 activities have been concentrated on developing standards for three major areas: - computer graphics, - sculptured surfaces, and - data exchange for engineering drawings. The Graphical Kernel System (GKS) has been accepted as an international standard for graphics programming in 1984, Y14.26M (IGES) was adopted as an American Standard in 1981 and the VDA Surface Interface (VDASF) has been accepted by the German National Standardization Institute (DIN NAM 96.4). Although considerable progress has been achieved, the complexity of the subject and the dynamics of the CAD/CAM-development still calls for more generality and compatibility of the interfaces. This has resulted in an international discussion on further improvements of the standards. The major goal of this book is to bring together the different views and experiences in industry and university in the area of Product Data Interfaces, thereby contributing to the ongoing work in improving the state of the art.

Document Manipulation and Typography Springer Science & Business Media

Karst Systems deal with the question of how the subsurface drainage system, typical of Karst areas develops from its initial state to maturity. Equal attention is given to physical, chemical and geological conditions which determine karstification. The reader will find discussions of mass transport, chemical kinetics, hydrodynamics of fluxes, and the role of dissolution and precipitation of Calcite as they occur in experiments and natural environments. It offers a wealth of information on a complex natural system to hydrologists, hydrochemists, geologists and geographers.

CONFERENCE PROCEEDINGS

CUP Archive

This book is based on lectures presented at an international workshop on geometric modeling held at Hewlett Packard GmbH in Boblingen, FRG, in June 1990. International experts from academia and industry were selected to speak on the most interesting topics in geometric modeling. The

resulting papers, published in this volume, give a state-of-the-art survey of the relevant problems and issues. The following topics are discussed: - Methods for constructing surfaces on surfaces: four different solutions to the multidimensional problem of constructing an interpolant from surface data are provided. - Surfaces in solid modeling: current results on the implementation of free-form solids in three well established solid models are reviewed. - Box splines and applications: an introduction to box spline methods for the representation of surfaces is given. Basic properties of box splines are derived, and refinement and evaluation methods for box splines are presented in detail. Shape preserving properties, the construction of non-rectangular box spline surfaces, applications to surface modeling, and imbedding problems, are discussed. - Advanced computer graphics techniques for volume visualization: the steps to be executed in the visualization process of volume data are described and tools are discussed that assist in handling this data. - Rational B-splines: an introduction to the representation of curves and surfaces using rational B-splines is given, together with a critical evaluation of their potential for industrial application.

CGM in the Real World Butterworth-Heinemann

The Computer Graphics Interface provides a concise discussion of computer graphics interface (CGI) standards. The title is comprised of seven chapters that cover the concepts of the CGI standard. Figures and examples are also included. The first chapter provides a general overview of CGI; this chapter covers graphics standards, functional specifications, and syntactic interfaces. Next, the book discusses the basic concepts of CGI, such as inquiry, profiles, and registration. The third chapter covers the CGI concepts and functions, while the fourth chapter deals with the concept of graphic objects. Chapter 5 discusses segments, while Chapter 6 tackles raster devices. The last chapter covers mechanism for manipulating graphic objects through the use of input/output devices. The text will be of great use to both novice and expert computer graphics artist, particularly those who are involved in designing user interface.

Computer Aided Design Springer Science & Business Media

Automation is nothing new to industry. It has a long tradition on the factory floor, where its constant objective has been to increase the productivity of manufacturing processes. Only with the advent of computers could the focus of automation widen to include administrative and information-handling tasks. More recently, automation has been extended to the more intellectual tasks of production planning and control, material and resource planning, engineering design, and quality control. New challenges arise in the form of flexible manufacturing, assembly automation, and automated floor vehicles, to name just a few. The sheer complexity of the problems as well as the state of the art has led scientists and engineers to concentrate on issues that could easily be isolated. For example, it was much simpler to build CAD systems whose sole objective was to ease the task of drawing, rather than to worry at the same time about how the design results could be interfaced with the manufacturing or assembly processes. It was less

problematic to gather statistics from quality control and to print reports than to react immediately to first hints of irregularities by interfacing with the designers or manufacturing control, or, even better, by automatically diagnosing the causes from the design and planning data. A heavy-though perhaps unavoidable - price must today be paid whenever one tries to assemble these isolated solutions into a larger, integrated system.

ADVANCES IN COMPUTER GRAPHICS II

Springer Science & Business Media

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.

Bulletin mathématique de la Société des sciences mathématiques de la République Socialiste de Roumanie Springer Verlag

A little more than a decade ago my colleagues and I faced the necessity for providing a database management system which might commonly serve a number of different types of computer aided design applications at different manufacturing enterprises. We evaluated some wellknown cases of conceptual models and commercially available DBMSs, and found none fully meeting the requirements. Yet the analysis of them led us to the development of what we named the Logical Structure Management System (LMS). Syntactically the LMS language is somewhat similar to ALPHA by E. F. Codd. The underlying conceptual model is entirely different from that of the relational model, however. LMS has been since put into practical use, meanwhile a further effort in search of a sound theoretical base and a concrete linguistic framework for true product modeling together with comparative studies of various approaches has been made. Here, the term product modeling is used to signify the construction of informational models of design objects and design processes in which it must be possible to include not a fixed set of attributes and relations, such as geometry, physical properties, part-of hierarchy, etc., but whatever aspects of design designers may desire to be included. The purpose of this book is to present the major results of the said effort, which are primarily of a theoretical or conceptual nature. Following the introduction (Chap.

COMPUTER GRAPHICS STANDARDS SERIES

Butterworth-Heinemann

The goal of this book is to present a framework within which the myriad of office technologies and office systems design techniques can be better understood. There are a number of office books which deal with the social/organizational aspects of office automation or with office equipment introduction strategies. This book differs from those in that it is written by technical computer people for technical computer people. As such, it assumes a general computer literacy and contains a technical emphasis with a social fiber woven in. Besides the framework, we also present the current state of office primitives, office tools, and office technology. We cover relevant work on-going by international standards bodies, and we discuss the concepts that are emerging (or which we feel will be emerging) from universities and industrial research laboratories. Office technologies and techniques are classified as personal environment aids versus communal environment aids. We now fully realize how difficult it is to write a coherent book within this fuzzy, interdisciplinary, rapidly changing field. Concepts have been stressed wherever possible; there are some sub-areas where the generalizing concepts have not yet emerged. We also realize the potential danger of obsolescence. We have tried to combat this somewhat by the presentation of concepts, generic tool design, and emphasizing our framework. This book is not a substitute for reading of the current periodical literature - that is where the most timely information lies.

Methods and Applications Butterworth-Heinemann

Computer science provides a powerful tool that was virtually unknown three generations ago. Some of the classical fields of knowledge are geodesy (surveying), cartography, and geography. Electronics have revolutionized geodetic methods. Cartography has faced the dominance of the computer that results in simplified cartographic products. All three fields make use of basic components such as the Internet and databases. The Springer Handbook of Geographic Information is organized in three parts, Basics, Geographic Information and Applications. Some parts of the basics belong to the larger field of computer science. However, the reader gets a comprehensive view on geographic information because the topics selected from computer science have a close relation to geographic information. The Springer Handbook of Geographic Information is written for scientists at universities and industry as well as advanced and PhD students.

Proceedings of an International Workshop, Breuberg, FRG, October 15-17, 1990 S. Chand Publishing

This well-written textbook discusses the concepts, principles and applications of Computer Graphics in a simple, precise and systematic manner. It explains how to manipulate visual and geometric information by using the computational techniques. It also incorporates several experiments to be performed in computer graphics and multimedia labs.

Bull. Math. Soc. Sc. Math. Roumanie CGM and CGIMetafile and Interface Standards for Computer Graphics

Multimedia Document Systems in Perspectives brings together in one place important contributions and up-to-date research results in this fast moving area. Multimedia Document Systems in Perspectives serves as an excellent reference, providing insight into some of the most challenging research issues in the field.

Metafile and Interface Standards for Computer Graphics John Wiley & Sons

Computer Integrated Manufacturing: From Fundamentals to Implementation is based on a course in computer integrated manufacturing (CIM) which

is part of the Production Engineering Tripos for postgraduate-level students at Cambridge University. The book is intended to provide a thorough coverage of a difficult subject, and to communicate principles as well as something of current practice. This should give a firm basis of knowledge in CIM, and develop an understanding that will be valid for many years in changing business and manufacturing environments. The book covers CIM and manufacturing systems at a technical level, from description of the conventional "islands of computerization" to the components of CIM architecture. The business objectives of CIM are described, from analysis of the business environment to cost justification and implementation of CIM systems. CIM is seen as a business tool and not as an end in itself. Each individual and company needs to adapt the tools described in this book to best effect. Study of this book should enable postgraduate students and professional engineers to deal confidently with the subject and use CIM techniques profitably.

Modeling of Curves and Surfaces in CAD/CAM Springer Science & Business Media

"The Encyclopedia of Microcomputers serves as the ideal companion reference to the popular Encyclopedia of Computer Science and Technology.

Now in its 10th year of publication, this timely reference work details the broad spectrum of microcomputer technology, including microcomputer history; explains and illustrates the use of microcomputers throughout academe, business, government, and society in general; and assesses the future impact of this rapidly changing technology."

BUTTERWORTH SERIES IN COMPUTER GRAPHICS STANDARDS

Springer Science & Business Media

A metafile is a mechanism for retaining and transporting graphical data which contains a description of one or more pictures. The CGM is an international standard format for 2-D computer graphics storage and exchange of images. The CGM Handbook provides ample coverage of this rapid-growth area of computer graphics and will be of interest to anyone interested in CGM.

Design, Implementation and Experiences Springer Science & Business Media

CGM and CGIMetafile and Interface Standards for Computer Graphics Springer Science & Business Media

PRODUCT DATA INTERFACES IN CAD/CAM APPLICATIONS

Springer Science & Business Media

The Computer Graphics Metafile deals with the Computer Graphics Metafile (CGM) standard and covers topics ranging from the structure and contents of a metafile to CGM functionality, metafile elements, and real-world applications of CGM. Binary Encoding, Character Encoding, application profiles, and implementations are also discussed. This book is comprised of 18 chapters divided into five sections and begins with an overview of the CGM standard and how it can meet some of the requirements for storage of graphical data within a graphics system or application environment. The reader is then introduced to the practice of using the CGM and the nature of the CGM, its aims, and what is defined in the standard. The following chapters focus on the players, the rules, and the game; the abstract functionality of the CGM; descriptor elements for metafiles and pictures; coordinates, primitives, and attributes; and encodings and implementation considerations. Clear Text Encoding, Binary Encoding, Character Encoding, and application profiles are also explored. The final chapter looks at the use of GKS, GKS-3D, and PHIGS to generate and interpret CGMs. This monograph will be a valuable resource for computer graphics students and professionals as well as software engineers and computer programmers.

SIGGRAPH 1990, 17th International Conference on Computer Graphics and Interactive Techniques : Dallas Convention Center, August 6th-10th Elsevier Publishing Company

This book describes principles, methods and tools that are common to computer applications for design tasks. CAD is considered in this book as a discipline that provides the required know-how in computer hardware and software, in systems analysis and in engineering methodology for specifying, designing, implementing, introducing, and using computer based systems for design purposes. The first chapter gives an impression of the book as a whole, and following chapters deal with the history and the components of CAD, the process aspect of CAD, CAD architecture, graphical devices and systems, CAD engineering methods, CAD data transfer, and application examples. The flood of new developments in the field and the success of the first edition of this book have led the authors to prepare this completely revised, updated and extended second edition. Extensive new material is included on computer graphics, implementation methodology and CAD data transfer; the material on graphics standards is updated. The book is aimed primarily at engineers who design or install CAD systems. It is also intended for students who seek a broad fundamental background in CAD.

Object-Oriented Graphics Springer Verlag

About two years ago, while attending yet another international standards meeting, a few of the meeting participants were discussing the utility and applicability of the standards we were designing. After all, if standards are not used, and used effectively, why are we spending all this time and money designing them? The ultimate test of the utility of computer standards is the number of implementations that are developed and the number of end-users that successfully use these within their own application. The number of implementations is related to the quality of a standard because vendors cannot produce correct implementations without clear, precise and unambiguous semantics within the standard. The number of users of implementations of the standards is an even greater measure of success of the standard because users will only purchase these implementations if they are useful for their applications. "How could we determine whether or not graphics standards are useful?" we asked ourselves. "Let's ask both implementors and users about the experiences they've had with our standards. Let them tell us about the successes and the problems as well." Thus, an idea was born - the idea of a series of workshops, each one devoted to the usability of a different computer graphics standard. The only thing left to do in planning this workshop was to choose the appropriate standard to serve as the focus of the first workshop. There were only a few viable candidates.

CGM AND CGI

CRC Press

1 Aims and Features of This Book The contents of this book were originally planned to be included in a book entitled Geometric Modeling and CAD/CAM to be written by M. Hosaka and F. Kimura, but since the draft of my part of the book was finished much earlier than Kimura's, we decided to publish this part separately at first. In it, geometrically oriented basic methods and tools used for analysis and synthesis of curves and surfaces used in CAD/CAM, various expressions and manipulations of free-form surface patches and their connection, interference as well as their quality evaluation are treated. They are important elements and procedures of geometric models. And construction and utilization of geometric models which include free-form surfaces are explained in the application examples, in which the methods and the techniques described in this book were used. In the succeeding book which Kimura is to write, advanced topics such as data structures of geometric models, non-manifold models, geometric inference as well as tolerance problems and product models, process planning and so on are to be included. Consequently, the title of this book is changed to Modeling of Curves and Surfaces in CAD/CAM. Features of this book are the following. Though there are excellent text books in the same field such as G. Farin's Curves and Surfaces for CAD /CAM [1] and C. M.

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Encyclopedia of Microcomputers Oreilly & Associates Incorporated

At present, object-oriented programming is emerging from the research laboratories and invading into the field of industrial applications. More and more products have been implemented with the aid of object-oriented programming techniques and tools, usually as extensions of traditional languages in hybrid development systems. Some of the better known examples are OSF-Motif, News, Objective-C on the NeXT computer, the C extension C++, and CLOS an object oriented extension of LISP. All of these developments incorporate interactive graphics. Effective object-oriented systems in combination with a graphics kernel does it mean that the field of computer graphics has now become merely an aspect of the object-oriented world? We do not think so. In spite of interesting individual developments, there are still no sound object-oriented graphics systems available. If it is desired to develop a complex graphics application embedded in a window-oriented system then it is still necessary to work with elementary tools. What is to be displayed and interactively modified inside a window must be specified with a set of graphics primitives at a low level, or has to be written with a standardized graphics kernel system such as GKS or PHIGS, i. e. , by kernels specified and implemented in a non-object-oriented style. With the terms GKS and PHIGS we enter the world of international graphics standards. GKS and PHIGS constitute systems, not mere collections of graphics primitives.