

Services, Frameworks, and Paradigms for Distributed Multimedia Applications

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Distributed multimedia application development is supported by a growing number of services. While these pave the way for sophisticated multimedia support in distributed systems, using them involves interfacing inconsistent and swiftly evolving technologies. To alleviate this, we propose an encompassing framework that offers all services under a unifying hybrid object/hypermedia paradigm.

The multimedia community agrees almost unanimously that both the largest potential and the most serious problems lie in the development of distributed multimedia (DMM) applications. This evolving domain inherits both its strengths and its liabilities from different and rather incompatible realms. First, multimedia applications may consist either mainly of software, requiring programming activity, or mainly of multimedia content, requiring authoring activity. Second, multimedia application development has focused on solutions for stand-alone computers before "going distributed."

Just as multimedia application development has progressed along two quite separate routes, programming and authoring, so has distributed application development: there is the traditional field of distributed programming and the handling of distributed multiple-media documents (such as the World Wide Web). We use the term distributed authoring for the latter, DMM application develop-

ment, therefore, has to harmonize four fields: multimedia programming, multimedia authoring, distributed programming, and distributed authoring.

To clarify our basic terms, we use "service" here in its broadest sense, covering facets that may also be called function or class library, toolkit, and even framework. A DMM service, then, is a set of functions offered to developers that cover aspects specific to DMM. "Abstractions" denote intuitive, self-contained descriptions of functional units within a service, often reflected in software as a set of abstract data types and operations. As multimedia services are still in their infancy, they hardly make abstractions explicit; rather, most of them offer a single common abstraction to the programmer, namely, the application programming interface (API).

Our analysis of distributed application development prompts us to aim for an encompassing framework of tools and services unified by a common paradigm such as "distributed object-oriented programming." An encompassing framework provides

- organized access to all (DMM and other) services relevant to application development, and
- a consistent, simple, and homogeneous view onto these services, following a certain mental model or paradigm.

While APIs do not represent abstractions that encompass several services or are based on a precise mental model, encompassing frameworks do. We present here paradigms to describe virtually all components of frameworks and applications, and abstractions to describe a specific functionality. Figure 1 illustrates general components of DMM development as discussed in this article.

Multimedia application development

Many services are available to multimedia applications developers. For our purposes, we distinguish between multimedia authoring and programming, and distill from them some general abstractions. We investigate three classes of support systems for multimedia programming in particular: multimedia-augmented services, micro-worlds, and multimedia frameworks.

Authoring: The synchronization abstraction

Creating a presentation that contains multiple media involves a good deal of media-specific work such as recording, selecting, and editing video,

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environments The papers are organized in sections on caching indirection reflection messaging quality of service transactions and workflow and composition *Proceedings* ,1993 Handbook of Software Engineering & Knowledge Engineering Shi Kuo Chang,2002 This is the first handbook to cover comprehensively both software engineering and knowledge engineering two important fields that have become interwoven in recent years Over 60 international experts have contributed to the book Each chapter has been written in such a way that a practitioner of software engineering and knowledge engineering can easily understand and obtain useful information Each chapter covers one topic and can be read independently of other chapters providing both a general survey of the topic and an in depth exposition of the state of the art Practitioners will find this handbook useful when looking for solutions to practical problems Researchers can use it for quick access to the background current trends and most important references regarding a certain topic The handbook consists of two volumes Volume One covers the basic principles and applications of software engineering and knowledge engineering Volume Two will cover the basic principles and applications of visual and multimedia software engineering knowledge engineering data mining for software knowledge and emerging topics in software engineering and knowledge engineering

The 2nd International Conference on Distributed Frameworks for Multimedia Applications ,2006 Proceedings of the IEEE Workshop on Advances in Parallel and Distributed Systems, October 6, 1993, Princeton, New Jersey Bharat K. Bhargava,1993 **Proceedings of the 4th International Workshop on Parallel and Distributed Real-Time Systems** ,1996 The 48 refereed original unpublished papers describe research pertaining to real time experimental and commercial systems that are parallel and or distributed their scientific and commercial applications and theoretical foundations The keynote speech is on Ada 95 for real time distribution an Towards a CSCW Framework for Scientific Cooperation in Europe Hannes P. Lubich,1995-01-26 This monograph presents the still young but already large and very active interdisciplinary realm of computer supported cooperative work CSCW in a systematic and well balanced way Besides technical progress also the cultural social legal psychological and economic aspects of CSCW are discussed The book makes accessible a wealth of information and culminates in the development and detailed discussion of a Collaboratory suitable to fulfil the needs of scientific cooperation in Europe The book addresses CSCW research and development professionals as well as the general scientist interested in CSCW based scientific cooperation The bibliography with its more than 600 entries and the subject index are particularly comprehensive and helpful *The ... International Conference on Distributed Computing Systems* ,2000 □□□□□□ ,1998 **20th International Conference on Distributed Computing Systems** ,2000 Proceedings of the April 2000 conference on distributed computing systems Following the opening plenary address on the post PC era 187 papers and keynote addresses discuss mobile agents adaptive communications multimedia systems network management clustered architecture market based computing and agent organizations QoS management distributed scheduling web performance communication protocols distributed system architecture group communication file

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