Implementing Persistent Object Bases

Principles and Practice

The Fourth
International Workshop
on Persistent Object Systems

Edited by
Alan Dearle · Gail M. Shaw · Stanley B. Zdonik

Implementing Persistent Object Bases Principles And Practice The Fourth

Alan Dearle,Gail M. Shaw,Stanley Benjamin Zdonik

Implementing Persistent Object Bases Principles And Practice The Fourth:

Implementing Persistent Object Bases Alan Dearle,Gail M. Shaw,Stanley Benjamin Zdonik,1991 **Persistent Object Systems** Antonio Albano,Ron Morrison,2012-12-06 **Persistent Object Systems** Malcolm Atkinson,David Maier,Veronique Benzaken,2012-12-06 The Sixth International Workshop on Persistent Object Systems was held at Les Mazets des Roches near Tarascon Provence in southern France from the fifth to the ninth of September 1994 The attractive context and autumn warmth greeted the 53 participants from 12 countries spread over five continents Persistent object systems continue to grow in importance Almost all significant uses of computers to support human endeavours depend on long lived and large scale systems As expectations and ambitions rise so the sophistication of the systems we attempt to build also rises The quality and integrity of the systems and their feasibility for supporting large groups of co operating people depends on their technical founda tion Persistent object systems are being developed which provide a more robust and yet simpler foundation for these persistent applications The workshop followed the tradition of the previous workshops in the series focusing on the design implementation and use of persistent object systems in particular and persistent systems in general There were clear signs that this line of research is maturing as engineering issues were discussed with the aid of evidence from operational systems The work presented covered the complete range of database facilities transactions concurrency distribution integrity and schema modifica tion There were examples of very large scale use one involving tens of terabytes of data Language issues particularly the provision of reflection continued to be important Advances in Persistent Object Systems Ron Morrison,Mick Jordan,Malcolm Atkinson,1999-01-22 Proceedings of the biennial International Workshops on Persistent Object Systems Advances in Object-Oriented Database Systems Asuman Dogac,M.Tamer Özsu,Alexandros Biliris,Timos Sellis,2013-11-09 Object oriented database management systems OODBMSs have generated significant excitement in the database community in the last decade This interest stems from a real need for data management support for what are called advanced application areas that are not well served by relational technology The case for object oriented technology has been made on three fronts First is the data modeling requirements of the new applications Some of the more important shortcomings of the relational systems in meeting the requirements of these applications include 1 Relational systems deal with a single object type a relation A relation is used to model different real world objects but the semantics of this association is not part of the database Furthermore the attributes of a relation may come only from simple and fixed data type domains numeric character and sometimes date types Advanced applications require explicit storage and manipulation of more abstract types e g images design documents and the ability for the users to define their own application specific types Therefore a rich type system supporting user defined abstract types is required 2 The relational model structures data in a relatively simple and flat manner Non traditional applications require more complex object structures with nested objects e g a vehicle object containing an engine object **Persistent Object Systems 7**

(POS-7) Richard Conner,Scott Nettles,1997-03 **Proceedings of the Fourth ACM SIGPLAN International Conference on Functional Programming** ,1999 **Object Technologies for Advanced Software** Shojiro Nishio,1993-10-07 This volume constitutes the proceedings of the First International Symposiumorganized by the Japan Society for Software Science and Technology The symposium was held in Kanazawa Japan November 4 6 1993 and attracted many researchers from academia and industry as well as ambitioned practitioners Object technologies in particular object oriented programming object oriented databases and software object bases currently attract much attention and hold a great promise of future research and development in diverse areas of advanced software The volume contains besides 6 invited presentations by renown researchers and 25 contributed papers carefully selected by an internationalprogram committee from a total of 92 submissions *Object Databases* Moira C. Norrie,Michael Grossniklaus,2010-09-10 This book constitutes the thoroughly refereed post conference proceedings of the 2nd International Conference on Object Databases ICOODB 2009 held in Zurich Switzerland in July 2009 The 6 revised full papers presented together with 3 invited papers were carefully reviewed and selected from the presentations at the research track during two rounds of reviewing and improvement These papers address a wide range of issues related to object databases including topics such as applications methodologies design tools frameworks and standards as well as core object database technologies Fully Integrated Data Environments Malcolm P. Atkinson,Ray Welland,2012-12-06 Research into Fully Integrated Data Environments FIDE has the goal of substantially improving the quality of application systems while reducing the cost of building and maintaining them Application systems invariably involve the long term storage of data over months or years Much unnecessary complexity obstructs the construction of these systems when conventional databases file systems operating systems communication systems and programming languages are used This complexity limits the sophistication of the systems that can be built generates operational and usability problems and deleteriously impacts both reliability and performance This book reports on the work of researchers in the Esprit FIDE projects to design and develop a new integrated environment to support the construction and operation of such persistent application systems It reports on the principles they employed to design it the prototypes they built to test it and their experience using it **Database Programming Languages (DBPL-4)** Catriel Beeri,Atsushi Ohori,Dennis Shasha,2013-06-29 The Fourth International Workshop on Database Programming Languages Object Models and Languages DBPL 4 took place in Manhattan New York City 30 August 1 September 1993 The areas of interest and the format of DBPL 4 focused on the integration of programming languages object models type systems and database systems As in the previous DBPL workshops the setting was informal allowing the participants to actively discuss and argue about the ideas presented in the talks The comments and remarks made by the participants during and after the presentations were taken into account in the preparation of the final versions of the papers The result we believe is a set of excellent papers The DBPL sequence is closely related to the sequence of International Workshops on Persistent Object

Systems POS first started in 1985 While the DBPL workshops focus on language and model issues the POS workshops have focused on implementation issues thus the two sequences complement each other Many researchers participate in both workshop series The eight sessions of the technical program of DBPL 4 were as follows 1 Bulk types and their query languages two sessions 2 Object models and languages 3 Data types with order 4 Mechanisms to support persistence reflection and extensibility 5 Query optimization and integrity constraints 6 Logic based models 7 Implementation and performance issues   *Formal Models of Agents* John-Jules C. Meyer,Pierre-Yves Schobbens,2003-07-31 This volume provides a selection of strictly refereed papers first presented during a workshop held within the context of the ESPRIT ModelAge Project in Certosa di Pertignano Italy in 1997 The 15 revised full papers presented together with an introductory survey by the volume editors were carefully reviewed for inclusion in the book The book is devoted to the interdisciplinary study of formal models of agency and intelligent agents from the points of view of artificial intelligence software engineering applied logic databases and organization theory Among the topics addressed are various types of agents and multi agent systems cooperation communication specification verification deontic logic diagnosis and decision making   **Hybrid Systems III** Rajeev Alur,Thomas A. Henzinger,Eduardo D. Sontag,1996-04-24 This reference book documents the scientific outcome of the DIMACS SYCON Workshop on Verification and Control of Hybrid Systems held at Rutgers University in New Brunswick NJ in October 1995 A hybrid system consists of digital devices that interact with analog environments Computer science contributes expertise on the analog aspects of this emerging field of interdisciplinary research and design The 48 revised full papers included were strictly refereed they present the state of the art in this dynamic field with contributions by leading experts Also available are the predecessor volumes published in the same series as LNCS 999 and LNCS 736

Principles of Distributed Database Systems M. Tamer Özsu,Patrick Valduriez,2011-02-24 This third edition of a classic textbook can be used to teach at the senior undergraduate and graduate levels The material concentrates on fundamental theories as well as techniques and algorithms The advent of the Internet and the World Wide Web and more recently the emergence of cloud computing and streaming data applications has forced a renewal of interest in distributed and parallel data management while at the same time requiring a rethinking of some of the traditional techniques This book covers the breadth and depth of this re emerging field The coverage consists of two parts The first part discusses the fundamental principles of distributed data management and includes distribution design data integration distributed query processing and optimization distributed transaction management and replication The second part focuses on more advanced topics and includes discussion of parallel database systems distributed object management peer to peer data management web data management data stream systems and cloud computing New in this Edition New chapters covering database replication database integration multidatabase query processing peer to peer data management and web data management Coverage of emerging topics such as data streams and cloud computing Extensive revisions and updates based on years of class testing

and feedback Ancillary teaching materials are available   **Proceedings** ,1996   **Persistent Object Systems** ,1997
     Database Systems For Next-generation Applications: Principles And Practice W Kim,Yahiko Kambayashi,I S Paik,1993-02-27 This volume is the first in a series which aims to contribute to the wider dissemination of the results of research and development in database systems for non traditional applications and non traditional machine organizations It contains updated versions of selected papers from the First International Symposium on Database Systems for Advanced Applications   *Proceedings of the Second International Workshop on Object Orientation in Operating Systems, September 24-25, 1992, Dourdan, France* Luis-Felipe Cabrera,Eric Jul,1992   **Object-oriented Multidatabase Systems** Omran Bukhres,Ahmed K. Elmagarmid,1996 The first book to use object oriented techniques for multidatabase problems The authors show how to solve the problems of databases talking to each other using an object oriented approach
     Multimedia '99 N. Correia,T. Chambel,G. Davenport,2012-12-06 Multimedia 99 covers technological and scientific areas of media production processing and delivery 24 contributions from research laboratories and universities worldwide give a broad perspective on multimedia research with a special focus on media convergence The topics treated in this volume image and sound content analysis and processing paradigms and metaphors for multimedia authoring and display applications such as education or entertainment and multimedia content authentication and security

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