

# Concurrency Control in DBMS



# Concurrency Control And Recovery In Database Systems

**Allen B. Tucker**



## **Concurrency Control And Recovery In Database Systems:**

**Concurrency Control and Recovery in Database Systems** Philip A. Bernstein, Vassos Hadzilacos, Nathan Goodman, 1987 Simulation of Concurrency Control and Recovery Protocols for Distributed Database Systems Georgia Institute of Technology. School of Information and Computer Science, N. D. Griffith, M. Morsi, 1983 Recovery Mechanisms in Database Systems Vijay Kumar, Meichun Hsu, 1998 Databases like any computer system sometimes fail This book is a contributed volume containing chapters from the world's experts in the field of database recovery The title gives an excellent summary of the advances in database recovery schemes Database Recovery Vijay Kumar, Sang Hyuk Son, 2012-12-06 Database Recovery presents an in depth discussion on all aspects of database recovery Firstly it introduces the topic informally to set the intuitive understanding and then presents a formal treatment of recovery mechanism In the past recovery has been treated merely as a mechanism which is implemented on an ad hoc basis This book elevates the recovery from a mechanism to a concept and presents its essential properties A book on recovery is incomplete if it does not present how recovery is practiced in commercial systems This book therefore presents a detailed description of recovery mechanisms as implemented on Informix OpenIngres Oracle and Sybase commercial database systems Database Recovery is suitable as a textbook for a graduate level course on database recovery as a secondary text for a graduate level course on database systems and as a reference for researchers and practitioners in industry **Database Systems for Advanced Applications** Arbee L. P. Chen, Frederick H. Lochovsky, 1999 These conference papers cover the 6th International Conference on Database Systems for Advanced Applications They examine topics such as the World Wide Web workflow management and specification management visualization and multimedia databases spatial databases and index techniques **Concurrency Control And Recovery In Oltp Systems: High Scalability And Availability** Peng Cai, Jinwei Guo, Aoying Zhou, 2019-04-05 Transaction processing is fundamental for many modern applications These applications require the backend transaction processing engines to be available at all times as well as provide a massive horizontal scale for intensive transaction requests Concurrency Control and Recovery features recent progress in research in online transaction processing The book also showcases the authors research on a highly scalable OLTP system Its contents include the designs of an efficient multiple version storage engine a scalable range optimistic concurrency control high performance Paxos based log replication global snapshot isolation and fast follower recovery This book is written for professionals researchers and graduate students specialising in database systems and its related fields **Transactional Information Systems** Gerhard Weikum, Gottfried Vossen, 2002 This book describes the theory algorithms and practical implementation techniques behind transaction processing in information technology systems **The Concurrency Control and Recovery Problem for Multilevel Update Transactions in Multilevel Secure Database Systems** Thomas F. Keefe, Amit G. Mathur, 1994 Abstract This paper addresses the problem of a transaction reading and writing data at multiple classification

levels in a Multilevel Secure MLS database system We refer to such transactions as multilevel update transactions and show that no secure scheduler can ensure atomicity of multilevel update transactions in the presence of transaction aborts We then determine the covert channel capacity of various scheduling schemes There are essentially two ways of scheduling multilevel update transactions The first which ensures strong atomicity involves delaying the commit step of a low level subtransaction until the fates of all siblings are known The second scheme which ensures only semantic atomicity allows each subtransaction to commit or abort independently and compensates for committed transactions when necessary Analysis of these schemes indicate that the compensation approach leads to lower covert channel bandwidths A concurrently control and recovery protocol based on compensation is proposed for scheduling multilevel update transactions The correctness of the protocol is demonstrated and security issues are discussed

**Resources in Parallel and Concurrent Systems**, 1991 Computer Systems Organization Parallel architecture

**Distributed Database Systems** David A. Bell, Jane B. Grimson, 1992 This book adopts a practical approach reviewing the fundamentals of database technology and developments in data communications including standards before reviewing the principles of distributed DB systems It includes case studies of the leading products

*Computer Science Handbook* Allen B. Tucker, 2004-06-28 When you think about how far and fast computer science has progressed in recent years it is not hard to conclude that a seven year old handbook may fall a little short of the kind of reference today's computer scientists software engineers and IT professionals need With a broadened scope more emphasis on applied computing and more than 70 chap

*Readings in Database Systems* Joseph M. Hellerstein, Michael Stonebraker, 2005 The latest edition of a popular text and reference on database research with substantial new material and revision covers classical literature and recent hot topics Lessons from database research have been applied in academic fields ranging from bioinformatics to next generation Internet architecture and in industrial uses including Web based e commerce and search engines The core ideas in the field have become increasingly influential This text provides both students and professionals with a grounding in database research and a technical context for understanding recent innovations in the field The readings included treat the most important issues in the database area the basic material for any DBMS professional This fourth edition has been substantially updated and revised with 21 of the 48 papers new to the edition four of them published for the first time Many of the sections have been newly organized and each section includes a new or substantially revised introduction that discusses the context motivation and controversies in a particular area placing it in the broader perspective of database research Two introductory articles never before published provide an organized current introduction to basic knowledge of the field one discusses the history of data models and query languages and the other offers an architectural overview of a database system The remaining articles range from the classical literature on database research to treatments of current hot topics including a paper on search engine architecture and a paper on application servers both written expressly for this edition The result is a collection of papers that are seminal

and also accessible to a reader who has a basic familiarity with database systems

**Distributed and Multi-database Systems** Angelo R. Bobak, 1995 Regardless of your database experience Distributed and Multi Database Systems provides the foundation and understanding necessary for proper design of databases for today's distributed and multi database architectures Introductory chapters help novices understand essential topics such as SQL relational databases transaction processing and deadlock detection Subsequent sections dealing with homogeneous distributed databases heterogeneous multi databases and federated databases apply information discussed in earlier chapters enabling readers to understand the complexities of distributed database design Packed with over 200 illustrations 50 equations and two full chapters of examples the book also includes discussions on object oriented databases which form an integral part of any database

*Concurrency Control in Distributed Database Systems* W. Cellary, T. Morzy, E. Gelenbe, 2014-06-28 Distributed Database Systems DDBS may be defined as integrated database systems composed of autonomous local databases geographically distributed and interconnected by a computer network The purpose of this monograph is to present DDBS concurrency control algorithms and their related performance issues The most recent results have been taken into consideration A detailed analysis and selection of these results has been made so as to include those which will promote applications and progress in the field The application of the methods and algorithms presented is not limited to DDBSs but also relates to centralized database systems and to database machines which can often be considered as particular examples of DDBSs The first part of the book is devoted to basic definitions and models the distributed database model the transaction model and the syntactic and semantic concurrency control models The second discusses concurrency control methods in monoversion DDBSs the locking method the timestamp ordering method the validation method and hybrid methods For each method the concept the basic algorithms a hierarchical version of the basic algorithms and methods for avoiding performance failures are given The third section covers concurrency control methods in multiversion DDBSs and the fourth methods for the semantic concurrency model The last part concerns performance issues of DDBSs The book is intended primarily for DDBMS designers but is also of use to those who are engaged in the design and management of databases in general as well as in problems of distributed system management such as distributed operating systems and computer networks

*The Concurrency Control Problem for Database Systems* M. A. Casanova, 1981-07

**Database Systems Engineering** Nick Ryan, Dan Smith, 1995 This book gives the reader a coherent view of the issues involved in designing developing and implementing database systems The book shows how straightforward techniques for logical and physical design can be used to reason about the many complex issues and tradeoffs involved in designing and implementing data intensive systems

*Principles of Distributed Database Systems* M. Tamer Özsu, Patrick Valduriez, 1999 Appropriate for courses in Distributed Databases Distributed Data Management and Advanced Database Systems This text explores the development of distributed database management systems focusing on concepts and technical issues

*Active and Real-Time Database Systems*

(*ARTDB-95*) Mikael Berndtsson, 1996 The Workshops in Computing series is the result of a collaborative venture between the British Computer Society and Springer Verlag It is international in scope      **Multidatabase Systems** A. R. Hurson, Myron W. Bright, S. H. Pakzad, 1994 Introduction to multidatabase systems The global information sharing environment Multidatabases issues Multidatabase design choices Current research in multidatabase projects the future of multidatabase systems About the authors      **Database Systems** Thomas M. Connolly, Carolyn E. Begg, 1999 A strong foundation in good design practice this second edition offers information in an accessible step by step fashion This methodology is then applied to a working example so that the reader may learn to design and build applications using a leading commercial database system

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