Concurrency Control Techniques in Distributed Transaction System

Pessimistic Concurrency Control Techniques

- Isolation Levels
- Two-Phase Locking
- Distributed Lock Manager (DLM)
- Multiple Granularity Lock

Optimistic Concurrency Control Techniques

- Time-Stamp Based
- MVCC
- Snapshot Isolation
- CRDTs

Concurrency Control And Recovery In Database Systems

RM Cervero

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

Mining Latent Entity Structures Chi Wang,Jiawei Han,2022-05-31 The big data era is characterized by an explosion of information in the form of digital data collections ranging from scientific knowledge to social media news and everyone s daily life Examples of such collections include scientific publications enterprise logs news articles social media and general web pages Valuable knowledge about multi typed entities is often hidden in the unstructured or loosely structured interconnected data Mining latent structures around entities uncovers hidden knowledge such as implicit topics phrases entity roles and relationships In this monograph we investigate the principles and methodologies of mining latent entity structures from massive unstructured and interconnected data We propose a text rich information network model for modeling data in many different domains This leads to a series of new principles and powerful methodologies for mining latent structures including 1 latent topical hierarchy 2 quality topical phrases 3 entity roles in hierarchical topical communities and 4 entity relations This book also introduces applications enabled by the mined structures and points out some promising research directions **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 *PARBASE-90, International Conference on Databases, Parallel Architectures, and Their Applications* Naphtali Rishe,Sham Navathe,Doron Tal,1990 Annotation Proceedings of the March 1990 meeting held in Miami Beach Florida Thirty three full papers and 50 short papers were selected from almost 200 No index Acidic paper Annotation copyrighted by Book News Inc Portland OR **Active and Real-time Database Systems** ,1996 **Proceedings of the ... International Conference on Information and Knowledge Management** ,1997 **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 **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 heterogenous multi databases and federated databases apply information discussed in earlier chapters enasbling 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 objefct oriented databases which form an integral part of any database

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

Proceedings of the ... ACM SIGACT-SIGMOD Symposium on Principles of Database Systems ,1985 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 Journal of th eAssociation for Computing Machinery JOURNAL OF THE ASSOCIATION FOR COMPUTING MACHINERY,1989 *Proceedings of the Sixth International Conference on Information and Knowledge Management* Forouzan Golshani,Kia Makki,1997

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