A Call to Order p. 1
Reflective Programming in the Relational Algebra p. 17
Normal Forms and Conservative Properties for Query Languages over Collection Types p. 26

Semantic Representations and Query Languages for OR-Sets p. 37
Towards Tractable Algebras for Bags p. 49
Optimization of Real Conjunctive Queries p. 59
On the Semantics of Theory Change: Arbitration Between Old and New Information p. 71
Extended Commitment Ordering, or Guaranteeing Global Serializability by Applying Commitment Order Selectively to Global Transactions p. 83
On Correctness of Non-Serializable Executions p. 97
Equivalence, Query Reachability and Satisfiability in Datalog Extensions p. 109
An Alternating Fixpoint Tailored to Magic Programs p. 123
Finding Nonrecursive Envelopes for Datalog Predicates p. 135
Negation and Minimality in Non-Horn Databases p. 147
Complexity Aspects of Various Semantics for Disjunctive Databases p. 158
Query Evaluation Under the Well-Founded Semantics p. 168
Multiple Join Size Estimation by Virtual Domains p. 180
Fixed-Precision Estimation of Join Selectivity p. 190
On the Feasibility of Checking Temporal Integrity Constraints p. 202
Towards an Analysis of Range Query Performance in Spatial Data Structures p. 214
Blocking for External Graph Searching p. 222
Indexing for Data Models with Constraints and Classes p. 233
Completeness Results for Recursive Data Bases p. 244
Safety and Translation of Calculus Queries with Scalar Functions p. 253
Database Method Schemas and Object Creation p. 265
Context-Based Synchronization: An Approach Beyond Semantics for Concurrency Control p. 276
Strict Histories in Object-Based Database Systems p. 288
Towards a Unified Theory of Concurrency Control and Recovery p. 300
Author Index p. 312

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.