

Table of Contents

Models for Data-Centric Workflows.....	1
<i>Serge Abiteboul and Victor Vianu</i>	
Relational Databases and Bell's Theorem	13
<i>Samson Abramsky</i>	
High-Level Rules for Integration and Analysis of Data: New Challenges	36
<i>Bogdan Alexe, Douglas Burdick, Mauricio A. Hernández, Georgia Koutrika, Rajasekar Krishnamurthy, Lucian Popa, Ioana R. Stanoi, and Ryan Wisnesky</i>	
A New Framework for Designing Schema Mappings	56
<i>Bogdan Alexe and Wang-Chiew Tan</i>	
User Trust and Judgments in a Curated Database with Explicit Provenance.....	89
<i>David W. Archer, Lois M.L. Delcambre, and David Maier</i>	
An Abstract, Reusable, and Extensible Programming Language Design Architecture.....	112
<i>Hassan Ait-Kaci</i>	
A Discussion on Pricing Relational Data	167
<i>Magdalena Balazinska, Bill Howe, Paraschos Koutris, Dan Suciu, and Prasang Upadhyaya</i>	
Tractable Reasoning in Description Logics with Functionality Constraints	174
<i>Andrea Cali, Georg Gottlob, and Andreas Pieris</i>	
Toward a Theory of Self-explaining Computation	193
<i>James Cheney, Umut A. Acar, and Roly Perera</i>	
To Show or Not to Show in Workflow Provenance	217
<i>Susan B. Davidson, Sanjeev Khanna, and Tova Milo</i>	
Provenance-Directed Chase&Backchase	227
<i>Alin Deutsch and Richard Hull</i>	
Data Quality Problems beyond Consistency and Deduplication	237
<i>Wenfei Fan, Floris Geerts, Shuai Ma, Nan Tang, and Wenjuan Yu</i>	

Hitting Buneman Circles	250
<i>Michael Paul Fourman</i>	
Looking at the World Thru Colored Glasses	259
<i>Floris Geerts, Anastasios Kementsietsidis, and Heiko Müller</i>	
Static Analysis and Query Answering for Incomplete Data Trees with Constraints	273
<i>Amélie Gheerbrant, Leonid Libkin, and Juan Reutter</i>	
Using SQL for Efficient Generation and Querying of Provenance Information	291
<i>Boris Glavic, Renée J. Miller, and Gustavo Alonso</i>	
Bounds and Algorithms for Joins via Fractional Edge Covers	321
<i>Martin Grohe</i>	
Incremental Data Fusion Based on Provenance Information	339
<i>Carmem Satie Hara, Cristina Dutra de Aguiar Ciferri, and Ricardo Rodrigues Ciferri</i>	
Provenance for Linked Data	366
<i>Grigoris Karvounarakis, Irini Fundulaki, and Vassilis Christophides</i>	
First-Order Provenance Games	382
<i>Sven Köhler, Bertram Ludäscher, and Daniel Zinn</i>	
Querying an Integrated Complex-Object Dataflow Database	400
<i>Natalia Kwasnikowska and Jan Van den Bussche</i>	
Types, Functional Programming and Atomic Transactions in Hardware Design	418
<i>Rishiyur S. Nikhil</i>	
Record Polymorphism: Its Development and Applications	432
<i>Atsushi Ohori</i>	
A Calculus of Chemical Systems	445
<i>Gordon D. Plotkin</i>	
Schemaless Semistructured Data Revisited—Reinventing Peter Buneman’s Deterministic Semistructured Data Model—	466
<i>Keishi Tajima</i>	
Provenance Propagation in Complex Queries	483
<i>Val Tannen</i>	
Well-Defined NRC Queries Can Be Typed (Extended Abstract)	494
<i>Jan Van den Bussche and Stijn Vansummeren</i>	

Nine Years with Peter Buneman	507
<i>Stratis D. Viglas</i>	
Modal Logic for Preference Based on Reasons	516
<i>Daniel Osherson and Scott Weinstein</i>	
The Dichotomous Intensional Expressive Power of the Nested Relational Calculus with Powerset	542
<i>Limsoon Wong</i>	
Provenance in a Modifiable Data Set	557
<i>Jing Zhang and H.V. Jagadish</i>	
Author Index	569