Table of Contents

Invited Talk (Shared with DBPL)

Patterns and Types for Querying XML Documents ....................... 1
  Giuseppe Castagna

Constraints and Views

Checking Functional Dependency Satisfaction in XML ................ 4
  Millist W. Vincent and Jixue Liu

A Theoretic Framework for Answering XPath Queries Using Views.... 18
  Jian Tang and Shuigeng Zhou

Labeling and Path Evaluation

A Path-Based Labeling Scheme for Efficient Structural Join .......... 34
  Hanyu Li, Mong Li Lee, and Wynne Hsu

The BIRD Numbering Scheme for XML and Tree Databases –
Deciding and Reconstructing Tree Relations
Using Efficient Arithmetic Operations ................................. 49
  Felix Weigel, Klaus U. Schulz, and Holger Meuss

Efficient Handling of Positional Predicates
Within XML Query Processing ........................................... 68
  Zografoula Vagena, Nick Koudas, Divesh Srivastava,
  and Vassilis J. Tsotras

Indexing

Relational Index Support for XPath Axes ............................. 84
  Leo Yuen and Chung Keung Poon

Supporting XPath Axes with Relational Databases Using a Proxy Index .. 99
  Olli Luoma

An Extended Preorder Index for Optimising XPath Expressions ....... 114
  Martin F. O’Connor, Zohra Bellahsène, and Mark Roantree

Benchmarking and Query Processing

XPathMark: An XPath Benchmark for the XMark Generated Data ...... 129
  Massimo Franceschet
MemBeR: A Micro-benchmark Repository for XQuery .......................... 144
Loredana Afanasiev, Ioana Manolescu, and Philippe Michiels

Main Memory Implementations for Binary Grouping .................. 162
Norman May and Guido Moerkotte

Documents and Biometrical Applications

Logic Wrappers and XSLT Transformations
for Tuples Extraction from HTML ........................................ 177
Costin Bădică and Amelia Bădică

Approximate Subtree Identification
in Heterogeneous XML Documents Collections ...................... 192
Ismael Sanz, Marco Mesiti, Giovanna Guerrini,
and Rafael Berlanga Llavori

A Framework for XML-Based Integration of Data, Visualization
and Analysis in a Biomedical Domain .................................. 207
Nathan Bales, James Brinkley, E. Sally Lee, Shobhit Mathur,
Christopher Re, and Dan Suciu

Industrial Session

Optimizing Runtime XML Processing in Relational Databases ........ 222
Eugene Kogan, Gideon Schaller, Michael Rys, Hanh Huynh Huu,
and Babu Krishnaswamy

Panel (Together with DBPL)


Author Index ................................................................. 239