Database and Xml Technologies

Mong-Li Lee, Jeffrey Xu Yu, Zohra Bellahsene, Rainer Unland

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Preface

Since its first edition in 2003, the XML Database Symposium series (XSym) has been a forum for academics, practitioners, users and vendors, allowing all to discuss the use of and synergy between database management systems and XML. The symposia have provided many opportunities for timely discussions on a broad range of topics pertaining to the theory and practice of XML data management and its applications. XSym 2010 continued this XSym tradition with a program consisting of 11 papers and a keynote shared with the 36th International Conference on Very Large Data Bases (VLDB 2010). We received 20 paper submissions, out of which 8 papers were accepted as full papers, and 3 as short papers. Each submitted paper underwent a rigorous and careful review by four referees.

The contributions in these proceedings are a fine sample of the current research in XML query processing, including XPath satisfiability, approximate joins, pattern matching, linear index construction for trees, dynamic labeling, and XQuery update translation based on schema. The papers focus on recent advances in detecting functional dependencies, modeling complex XML twig pattern output, promoting semantics capability of XML keys, and searchable compression of Microsoft office documents. In addition, we include a paper that shares lessons learned from real XML database development.

The organizers would like to express their gratitude to the authors, for submitting their work, and to the Program Committee, for providing very thorough evaluations of the submitted papers and for the discussions that followed under significant time constraints. We also would like to thank the invited keynote speaker, Prof. M. Tamer Özsu, for the challenging and thought-provoking contribution. Finally, we are also grateful to Microsoft and Michael Rys for their generous sponsorship, Andrei Voronkov and other contributors for the EasyChair conference management system, and the local organizers for their efforts in making XSym 2010 a pleasant and successful event. Finally, we would also like to thank Alfred Hofmann and his great team from Springer for their support and cooperation in putting this volume together.

July 2010

Mong Li Lee
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