

Contents

IMDM 2013 Workshop Papers

Massively Parallel NUMA-Aware Hash Joins	3
<i>Harald Lang, Viktor Leis, Martina-Cezara Albutiu, Thomas Neumann, and Alfons Kemper</i>	
Fast Column Scans: Paged Indices for In-Memory Column Stores.	15
<i>Martin Faust, David Schwalb, and Jens Krueger</i>	
Compiled Plans for In-Memory Path-Counting Queries	28
<i>Brandon Myers, Jeremy Hyrkas, Daniel Halperin, and Bill Howe</i>	
Bringing Linear Algebra Objects to Life in a Column-Oriented In-Memory Database	44
<i>David Kernert, Frank Köhler, and Wolfgang Lehner</i>	
Dynamic Query Prioritization for In-Memory Databases.	56
<i>Johannes Wust, Martin Grund, and Hasso Plattner</i>	
Aggregates Caching in Columnar In-Memory Databases	69
<i>Stephan Müller and Hasso Plattner</i>	
An Evaluation of Strict Timestamp Ordering Concurrency Control for Main-Memory Database Systems	82
<i>Stephan Wolf, Henrik Mühe, Alfons Kemper, and Thomas Neumann</i>	

IMDM 2014 Workshop Papers

Database Scan Variants on Modern CPUs: A Performance Study	97
<i>David Brioneske, Sebastian Breß, and Gunter Saake</i>	
Efficient Transaction Processing for Hyrise in Mixed Workload Environments.	112
<i>David Schwalb, Martin Faust, Johannes Wust, Martin Grund, and Hasso Plattner</i>	
The DCB-Tree: A Space-Efficient Delta Coded Cache Conscious B-Tree. . . .	126
<i>Robert Binna, Dominic Pacher, Thomas Meindl, and Günther Specht</i>	

Composite Group-Keys: Space-Efficient Indexing of Multiple Columns
for Compressed In-Memory Column Stores 139
Martin Faust, David Schwalb, and Hasso Plattner

Author Index 151

In Memory Data Management and Analysis

First and Second International Workshops, IMDM 2013,
Riva del Garda, Italy, August 26, 2013, IMDM 2014,
Hongzhou, China, September 1, 2014, Revised Selected
Papers

Jagatheesan, A.; Levandoski, J.; Neumann, Th.; Pavlo, A.
(Eds.)

2015, VIII, 151 p. 57 illus., Softcover

ISBN: 978-3-319-13959-3