

# Preface

Formed in 2012, the Big Data Benchmarking Community (BDBC) represents a major step in facilitating the development of benchmarks for objective comparisons of hardware and software systems dealing with emerging Big Data applications. Led by Chaitanya Baru, Tilmann Rabl, Meikel Poess, Milind Bhandarkar, and Nambiar Raghunath, the BDBC has successfully conducted four international Big Data Benchmarking Workshops (WBDB) bringing industry experts and researchers together to present and debate challenges, ideas, and methodologies to benchmark big data systems. The first WBDB was held in San José, California during May 8–9, 2012 at the Brocade Executive Briefing Center and hosted by Brocade. The second WBDB was held in Pune, India during December 17–18, 2012, hosted by Persistent Systems and Infosys.

This book contains the joint proceedings of the Third and Fourth Workshops on Big Data Benchmarking. The third WBDB was held in Xi'an, China, during July 16–17, 2013, hosted by Xi'an University of Posts and Telecommunications and Mellanox. The fourth WBDB was again held in San José, California from October 9–10, 2013 and hosted by Brocade.

The 2013 editions of the workshop series saw a much clearer focus on the benchmarking topics and also a much higher number of concrete benchmark proposals. In this book, we have collected seven proposals for big data benchmarks, which are collected in Section “Big Data Benchmarks”. Yet there are still new and exciting application descriptions that are presented in Section “Application and Scenarios”. Additionally, in Section “Tools, Systems, and Surveys”, we have collected an overview of different systems and applications and strategies for an industry standardization approach within the TPC.

The 15 papers in this book were selected out of a total of 33 presentations in WBDB2013.cn and WBDB2013.us. All papers were reviewed in two rounds. Shepherds helped the authors to incorporate the feedback from reviewers as well as the audience at the workshop. We thank the sponsors, members of the program committee, authors, and participants for their contributions to these workshops. The hard work and close cooperation of a number of people have been critical to the success of the WBDB workshop series.

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