

# Preface

In this volume we present the contributions accepted for the First International Workshop on Data Management and Analytics for Medicine and Healthcare (DMAH 2015) and the Big-O(Q) VLDB 2015 Workshop on Big-Graphs Online Querying, held at the Big Island of Hawaii in conjunction with the 41st International Conference on Very Large Data Bases on August 31 – September 4, 2015.

The goal of DMAH workshop is to bring together people in the field cross-cutting information management and medical informatics to discuss innovative data management and analytics technologies highlighting end-to-end applications, systems, and methods to address problems in health care, public health, and everyday wellness, with clinical, physiological, imaging, behavioral, environmental, and omic-data, and data from social media and the Web. It provides a unique opportunity for interaction between information management researchers and biomedical researchers in an interdisciplinary field.

For the DMAH workshop, 13 papers were received. A rigorous, single-blind, peer-review selection process was adopted, resulting in six accepted papers and one accepted abstract presented at the workshop. Each paper was reviewed by three members of the Program Committee, who were carefully selected for their knowledge and competence. As far as possible, papers were matched with the reviewer's particular interests and special expertise. The result of this careful process can be seen in the high quality of the contributions published in this volume.

Graph data management has become a hot topic in the database community in recent years, because of an increasing realization that querying and reasoning about the interconnections between entities can lead to interesting and deep insights into a variety of phenomena. Despite much work in the area from the perspective of emerging applications, graph data management and online querying are still nascent topics in the database community with many open questions such as graph query optimization and benchmarking, declarative versus procedural graph query languages, graph data representation, optimal graph partitioning and dynamic workload balancing techniques, and the role of modern hardware in graph processing, among many others. The Big-O(Q) Workshop is an attempt to discuss some thoughts on these topics, and highlight which exciting and important research problems we think are still open.

For the Big-O(Q) Workshop, three papers were accepted from nine submissions. Each paper was peer reviewed by at least three reviewers from the Program Committee.

We would like to express our sincere thanks especially to the internationally renowned speakers who gave keynote talks at the workshop plenary sessions: Prof. Amar Das of Dartmouth College, USA, Prof. Ulf Leser of Humboldt-Universität in

Berlin, Germany, and Prof. Laks V.S. Lakshmanan of the University of British Columbia. We would like to thank the members of the Program Committee for their attentiveness, perseverance, and willingness to provide high-quality reviews.

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Fusheng Wang  
Gang Luo  
Chunhua Weng  
Arijit Khan  
Prasenjit Mitra  
Cong Yu

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Wang, F.; Luo, G.; Weng, C.; Khan, A.; Mitra, P.; Yu, C.  
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