

# Preface

The International Workshop on Accelerating Analytics and Data Management Systems Using Modern Processor and Storage Architectures (ADMS) and the International Workshop on In-Memory Data Management (IMDM) were held jointly this year.

The objective of this workshop is to investigate opportunities in accelerating analytics/data management systems and workloads (which include traditional OLTP, data warehousing/OLAP, ETL, streaming/real-time, business analytics, and XML/RDF processing) running in memory-only environments, using processors (e.g., commodity and specialized multi-core, GPUs, and FPGAs), storage systems (e.g., storage-class memories like SSDs and phase-change memory), and hybrid programming models such as CUDA, OpenCL, and OpenACC. The workshop hopes to explore the interplay between overall system design, core algorithms, query optimization strategies, programming approaches, as well as performance modeling and evaluation, from the perspective of data management applications.

In addition, over the past 30 years, memory prices have been dropping by a factor of 10 every 5 years. Main memory is the “new disk” for data storage. The number of I/O operations per second (IOPS) in DRAM is far greater than other storage media such as hard disks and SSDs. DRAM is readily available in the market at a better price point in comparison with DRAM alternatives. These trends make DRAM a better storage media for latency-sensitive database applications, large-scale Web applications, and future applications such as wearable devices. The International Workshop on In-Memory Memory Data Management and Analytics (IMDM) aims to bring together researchers and practitioners interested in the proliferation of in-memory data management and analytics infrastructures.

These proceedings contain papers from the joint ADMS/IMDM workshop that was co-located with VLDB 2016 in New Delhi, India. The workshops were well-attended and sparked interesting technical discussions.

All papers in these proceedings were peer-reviewed by an expert Program Committee comprising experts from both industry and academia. We would like to thank these committee members as well as the authors for contributing high-quality work.

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