

# Preface

The 2016 edition of the Monterey Workshop was the 19th in the series, initiated in 1993 and devoted to exploring the critical problems associated with cost-effective development of high-quality software systems. Monterey workshops have a rich history of bringing together both American and European scientists who share a common interest in seeing that software development research serves as a catalyst for practical advances in next-generation software-intensive systems. These workshops have been highly praised by participants for their high quality of presentations and discussions and given rise to many new collaborations that have significantly advanced the field.

The year 2016 marked the 23rd anniversary for the Monterey Workshop. For nearly a quarter of century, the Monterey Workshops have established themselves as an important international forum to foster – among academia, industry, and government agencies – the discussion and exchange of ideas, research results, and experience in developing software-intensive systems, and have significantly advanced the field. The community of the workshop participants has grown to become an influential source of ideas and innovations and its impact on the knowledge economy has been felt worldwide. The workshop in 2016 was held in Beijing, China, during October 8–11 2016.

More than 40 scholars, engineers, and students from six countries attended the workshop. Two keynote speeches were given: “Software Decay as a Big-Data Problem View Through the Architecture Lens” by Prof. Nenad Medvidovic from the University of Southern California, USA, and “Performance of Big Data on Small Nodes” by Yong Meng TEO from the National University of Singapore. In all, 27 papers were presented and extended versions of 18 selected papers are included in these proceedings, which address challenging issues in big data and artificial intelligence and their applications in different areas, such as manufacturing and transportation.

As the first Monterey Workshop held outside the United States and Europe, we would like to take this opportunity to thank the Steering Committee for their support and guidance. We also thank the authors and reviewers for their valuable efforts to make the workshop a memorable and successful event.

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