Preface

Business data analytics in scientific domains depends on computing infrastructure. A scientific exploration of data is beneficial for large-scale public utility services, either directly or indirectly. Many research efforts are being made in diverse areas, such as big data analytics and cloud computing, sensor networks, and high-level user interfaces for information accesses by common users. Government agencies in many countries plan to launch facilities in education, health care, and information support as a part of e-government initiatives. In this context, big data analytics and information interchange management have become active research fields. A number of new opportunities have evolved in design and modeling based on the new computing needs of users. Database systems play a central role in supporting networked information systems for access and storage management aspects.

The 5th International Conference on Big Data Analytics (BDA) 2017 was held during December 12–15 at the International Institute of Information Technology (IIIT), Hyderabad. The program included research contributions and invited contributions. A view of research activity in big data analytics, information interchange management, and associated research issues was provided by the sessions on related topics. The keynote address was contributed by Prof. Krithi Ramamritham for the session on big data analytics. Additional sessions were organized to cover information and knowledge management, mining of massive datasets, conceptual modeling, and data mining and analysis. I would like to thank the members of the Program Committee for their support and all authors who considered BDA 2017 in making research contributions. Within the big data analytics framework, the conference attracted submissions under diverse topics, such as analysis and prediction (graphs, stock markets, tweets, fraud), machine-learning approaches for intrusion detection, time-series and text data, and applications (health care, news, and agriculture) indicating the importance of this growing area from the research and application perspective. The selected papers in these proceedings, along with keynotes and tutorials on a variety of relevant topics, are expected to further stimulate research and exposure to cutting-edge research.

The conference received 80 submissions. Each was reviewed by at least three Program Committee members. A few papers had four reviews to get an additional opinion for final decision-making. The committee selected ten papers. Three out of ten papers were conditionally accepted. Authors of such papers went through a shepherding process to improve their papers. Finally, the acceptance rate was 12.5%. The Program Committee comprised 45 members from 10 countries. Papers were received from authors from seven different countries. The authors of accepted papers were from three countries.

The sponsoring organizations, the Steering Committee, and the Organizing Committee deserve praise for the support they provided. A number of individuals contributed to the success of the conference. I thank Prof. Krithi Ramamritham for providing continuous support and encouragement.

The conference received invaluable support from IIIT Hyderabad. In this context, I thank Prof. P. J. Narayanan, Director IIIT Hyderabad. Many thanks are also extended to the faculty members at the institute for their cooperation and support.

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