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Data Science

6th International Conference, ICDS 2019
Ningbo, China, May 15–20, 2019
Revised Selected Papers

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Preface

Welcome to the proceedings of the 6th International Conference on Data Science (ICDS 2019), held in Ningbo, Zhejiang, China, during May 15–20, 2019. The explosion of digital data created by mobile sensors, social media, surveillance, medical imaging, smart grids, and the like, combined with new tools for analyzing it all, has brought us into the Big Data era. We are facing great challenges: how to deal with data which is more than we could actually understand and absorb and how to make efficient use of the huge volume of data? The ICDS conference was created to cover all aspects of Data Science. From both scientific and practical perspectives, research on Data Science goes beyond the contents of Big Data. Data Science can be generally regarded as an interdisciplinary field of using mathematics, statistics, databases, data mining, high-performance computing, knowledge management, and virtualization to discover knowledge from data. It should have its own scientific contents, such as axioms, laws, and rules, which are fundamentally important for experts in different fields to explore their own interests from data. The last ICDS series were held in Beijing, China (2014); Sydney, Australia (2015); Xian, China (2016); Shanghai, China (2017); and Beijing, China (2018).

A total of 210 research papers were submitted to the conference for consideration, and 64 submissions were accepted as full papers (with an acceptance rate of 30% approximately). Each submission was reviewed and selected by at least three independent members of the ICDS 2019 Program Committee. The research papers cover the areas of Advancement of Data Science and Smart City Applications, Theory of Data Science, Data Science of People and Health, Web of Data, Data Science of Trust, and Internet of Things.

We wish to take this opportunity to thank the authors whose submissions and participation made this conference possible. We are also grateful to the Organizing Committee and Program Committee members for their dedication in helping to organize the conference and review the submissions. Special thanks are due to the keynote speakers for their impressive speeches.

September 2019

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The original version of the book was revised: the affiliation of the editor Xingsen Li on page IV has been corrected. The correction to the book is available at https://doi.org/10.1007/978-981-15-2810-1_65

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