

Preface

The 2015 Joint 24th International Chinese Statistical Association (ICSA) Applied Statistics Symposium and 13th Graybill Conference was successfully held from June 14 to June 17, 2015, in Fort Collins, Colorado, USA. The conference covers a variety of exciting and state-of-the-art statistical application topics (over 400 presentations) from the bio-pharmaceutical applications, e.g., clinical trials and personalized medicine, to non-bio-pharmaceutical applications, e.g., finance and business analytics, with attendees from industry, government, and academia.

The 24 papers were selected from the presentations in the annual meeting with a broad range of topics so that readers of this book could not only enjoy the topics close to their own research areas but also from other different areas. All papers have gone through the peer review process and parts covered in the book include:

- biomarker and personalized medicine
- Bayesian methods and applications
- dose ranging studies in clinical trials
- innovative clinical trial designs and analysis
- clinical and safety monitoring in clinical trials
- statistical applications in nonclinical and preclinical drug development
- statistical learning methods and applications with large-scale data
- statistical applications in business and finance

We are very grateful to the authors who contributed their papers to these proceedings and carefully prepared their manuscripts within a tight timeline. These proceedings would also not be possible without the successful symposium, which gave us the opportunity to share, learn, and choose so many high-quality papers. Our deep gratitude goes to the leadership of Naitee Ting and the executive organizing committee, the program committee, and many other volunteers of the

24th ICSA Applied Statistics Symposium and 13th Graybill Conference. We also thank Michael Penn of Springer for the assistance through the entire process of completing the book.

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Statistical Applications from Clinical Trials and
Personalized Medicine to Finance and Business
Analytics

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