

# Preface

This proceedings volume grew out of the Workshop Analytical Methods in Statistics (AMISTAT 2015) which was held in Prague during November 10–13, 2015. The workshop was organized by the Fulbright Commission in Prague, which hosted Prof. Abram Kagan as the Fulbright Distinguished Chair at the Charles University, together with the American Center in Prague which made their lecture halls available for the workshop; our special thanks belong to both, the American Center and the Fulbright Commission.

The workshop brought together many interesting points and discussions on statistical decisions, arising from new problems everyday. We appreciate that young people could meet famous experts in the area and listen to their talks. The contributions dealing with current points of interest and with exciting open problems were presented by scholars from Belgium, France, Germany, India, Israel, Norway, Russia, Serbia, Slovakia, Sweden, UK, USA, and the Czech Republic. A part of these contributions, by those authors who considered their analyses as temporarily finished, is contained in the present book. The joint motto of the talks and all discussions was the “analytical statistics”. It emphasizes that the statistics provides mathematicians with challenging and exciting problems, because it obtains its problems from the real-life activities. For such problems one can rarely determine any axioms, and new problems appear every day. The statisticians utilize knowledge from all parts of mathematics, from those very abstract to numerical computation and interpretation of the results. Moreover, every statistician is expected to find a solution to a real problem and would not afford to reply that the optimal solution does not exist. He/she should look at least for a solution optimal under acceptable constraints, and to find it is again a challenge. Even thinking mathematically he/she has a feedback of practicality of the conclusions in mind.

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