

Preface

The 19th Conference of IASC-ERS, COMPSTAT'2010, is held in Paris, France, from August 22nd to August 27th 2010, locally organised by the Conservatoire National des Arts et Métiers (CNAM) and the French National Institute for Research in Computer Science and Control (INRIA).

COMPSTAT is an initiative of the European Regional Section of the International Association for Statistical Computing (IASC-ERS), a section of the International Statistical Institute (ISI). COMPSTAT conferences started in 1974 in Wien; previous editions of COMPSTAT were held in Berlin (2002), Prague (2004), Rome (2006) and Porto (2008). It is one of the most prestigious world conferences in Computational Statistics, regularly attracting hundreds of researchers and practitioners, and has gained a reputation as an ideal forum for presenting top quality theoretical and applied work, promoting interdisciplinary research and establishing contacts amongst researchers with common interests.

Keynote lectures are addressed by Luc Devroye (School of Computer Science, McGill University, Montreal), Lutz Edler (Division of Biostatistics, German Cancer Research Center, Heidelberg) and David Hand (Statistics section, Imperial College, London). The conference program includes three tutorials: "Statistical Approach for Complex data" by Lynne Billard (University of Georgia, United States), "Bayesian discrimination between embedded models" by Jean-Michel Marin (Université Montpellier II, France) and "Machine Learning and Association Rules" by Petr Berka and Jan Rauch (University of Economics, Prague, Czech Republic). Each COMPSTAT meeting is organised with a number of topics highlighted, which lead to Invited Sessions. The Conference program includes also contributed sessions and short communications (both oral communications and posters).

The Conference Scientific Program Committee chaired by Gilbert Saporta, CNAM, includes:

Ana Maria Aguilera, Universidad Granada
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Christophe Croux, Katholieke Universiteit Leuven
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Djamel Zighed, Université Lumière, Lyon

Due to space limitations, the Book of Proceedings includes keynote speakers' papers, invited sessions speakers' papers and a selection of the best contributed papers, while the e-book includes all accepted papers.

The papers included in this volume present new developments in topics of major interest for statistical computing, constituting a fine collection of methodological and application-oriented papers that characterize the current research in novel, developing areas. Combining new methodological advances with a wide variety of real applications, this volume is certainly of great value for researchers and practitioners of computational statistics alike.

First of all, the organisers of the Conference and the editors would like to thank all authors, both of invited and contributed papers and tutorial texts, for their cooperation and enthusiasm. We are specially grateful to all colleagues who served as reviewers, and whose work was crucial to the scientific quality of these proceedings. A special thanks to Hervé Abdi who took in charge the session on Brain Imaging. We also thank all those who have contributed to the design and production of this Book of Proceedings, Springer Verlag, in particular Dr. Martina Bihn and Dr. Niels Peter Thomas, for their help concerning all aspects of publication.

The organisers would like to express their gratitude to all people from CNAM and INRIA who contributed to the success of COMPSTAT'2010, and worked actively for its organisation. We are very grateful to all our sponsors, for their generous support. Finally, we thank all authors and participants, without whom the conference would not have been possible.

The organisers of COMPSTAT'2010 wish the best success to Erricos Kontoghiorghes, Chairman of the 20th edition of COMPSTAT, which will be held in Cyprus in Summer 2012. See you there!

Paris, August 2010

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<http://www.springer.com/978-3-7908-2603-6>

Proceedings of COMPSTAT'2010

19th International Conference on Computational
Statistics Paris France, August 22-27, 2010 Keynote,

Invited and Contributed Papers

Lechevallier, Y.; Saporta, G. (Eds.)

2010, XXX, 621 p. 105 illus., Softcover

ISBN: 978-3-7908-2603-6

A product of Physica-Verlag Heidelberg