

Preface

This volume presents a selection of papers developed from talks presented at the First Conference of the International Society of Nonparametric Statistics (ISNPS), held on June 15–19, 2012, at Chalkidiki, Greece. The papers cover a wide spectrum of topics of current interest and provide a glimpse of some of the most significant recent advances in theory, methodology, and applications of nonparametric statistics. Some of the topics covered in this volume include: Curve estimation and smoothing, Distribution of clusters of exceedances, Frequency domain and multi-scale methods, Inference for extremes, Level set estimation, Model selection and variable selection in high dimensions, Multiple testing, Nonparametric methods for image analysis and telecommunication networks, Nonparametric signal filtration, Particle filters, Statistical learning, and Resampling methods (Bootstrap, Permutation tests, etc.). All papers in the volume are refereed.

ISNPS was formed in 2010 with the mission “to foster the research and practice of nonparametric statistics, and to promote the dissemination of new developments in the field via conferences, books and journal publications.” The nature of ISNPS is uniquely global, and its international conferences are designed to facilitate the exchange of ideas and latest advances among researchers from all around the world in cooperation with established statistical societies such as the Institute of Mathematical Statistics (IMS) and the International Statistical Institute (ISI). ISNPS has a distinguished Advisory Committee that includes R. Beran, P. Bickel, R. Carroll, D. Cook, P. Hall, R. Johnson, B. Lindsay, E. Parzen, P. Robinson, M. Rosenblatt, G. Roussas, T. Subba Rao, and G. Wahba. The Charting Committee of ISNPS consists of over 50 prominent researchers from all over the world.

The First Conference of ISNPS included over 275 talks (keynote, special invited, invited and contributed) with presenters coming from all five continents. After the success of the First Conference, a second conference is currently being organized. The second ISNPS Conference is scheduled to take place in Cádiz, Spain, June 12–16, 2014, and is projected to include over 350 presentations. More information on ISNPS and the conferences can be found at <http://www.isnpsstat.org/>.

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