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Aims

The Chilean Journal of Statistics (ChJS) is an official publication of the Chilean Statistical Society (`www.soche.cl`). The ChJS takes the place of *Revista de la Sociedad Chilena de Estadística*, which was published from 1984 to 2000.

The ChJS is an international scientific forum strongly committed to gender equality, open access of publications and data, and the new era of information. The ChJS covers a broad range of topics in statistics, data science, data mining, artificial intelligence, and big data, including research, survey and teaching articles, reviews, and material for statistical discussion. In particular, the ChJS considers timely articles organized into the following sections: Theory and methods, computation, simulation, applications and case studies, education and teaching, development, evaluation, review, and validation of statistical software and algorithms, review articles, letters to the editors.

The ChJS editorial board plans to publish one volume per year, with two issues in each volume. On some occasions, certain events or topics may be published in one or more special issues prepared by a guest editor.

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Eleventh Volume – First Number
Editorial Paper

Starting a new decade of the Chilean Journal of Statistics in COVID-19 pandemic times with new editors-in-chief

Welcome to the first issue of the eleventh volume of the Chilean Journal of Statistics (ChJS). Today, April 29, 2020, the ChJS celebrates eleven years of life in a historic period marked by the uncertainty generated by the global pandemic due to COVID-19. Pandemics like this have been in history, but it is the first time that we have lived in a status of global quarantine. In these pandemic times, much of humanity is in isolation and social distancing. We will certainly overcome this situation and one of the keys to do this is science and the generation of accurate knowledge.

For this volume, the ChJS would be nothing without the valuable contributions of renowned international researchers who have honored us by publishing their interesting works in our journal; all of these papers are available for free at http://chjs.mat.utfsm.cl/issues.html. We also thank all the anonymous reviewers who have contributed to keeping the top quality standards of the ChJS.

Although the ChJS is published by the Chilean Statistical Society (www.soche.cl) and belongs to the Chilean statistical community, our journal can be recognized as an international publication since its editorial board is composed of colleagues from practically the five continents. Our current Editorial Board, presented at http://chjs.mat.utfsm.cl/board.html, is a mixture of experienced editors and talented young researchers, the latter mainly from Chile and Brazil, who with great interest and enthusiasm have honored us by accepting to be part of the ChJS. They are having their first editorial experiences, although they all have extensive experience as researchers as well as reviewers for prestigious international journals.

We would also like to thank the members of the Directory of the Chilean Statistical Society (https://soche.cl/quienes-somos) headed by its President, Dr. Jorge Figueroa and Directors Danilo Alvares, Eduardo Alarcón, Carolina Marchant, Yolanda Gómez, Soledad Estrella, Tarik Faouzi and Guido del Pino for ratifying the former Editor-in-Chief of the ChJS and also naming the new Editor-in-Chief. The current Editors-in-Chief will do our best to bring ChJS to the highest standards of professionalism, fairness and quality that all scientific journals must strive for.

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After this presentation note, the first issue of the eleventh volume of the ChJS comprises four papers authored by researchers from Brazil, Colombia, India, Kenya, Mexico, and US. Our first paper is authored by Luz Milena Zea Fernández and Thiago A.N. de Andrade. The authors derived new unconditioned and log-linear regression models based on the erf-G family of distributions. The second paper is authored by Thodur Parthasarathy Sripriya, Mamandur Rangaswamy Srinivasan, and Meenakshisundaram Subbiah, who presented a methodology for detecting outliers in $I \times J$ contingency tables through the level of susceptibility, a useful methodology for categorical data. In the third paper, Adolphus Wagala introduced a likelihood ratio test for correlated paired multivariate samples. The fourth paper is authored by Josmar Mazucheli, Sudeep R. Bapat, and André Felipe B. Menezes, who developed a new one-parameter unit-Lindley distribution and its application.

Finally, we would like the Chilean statistical community, as well as the international statistical community, our prestigious Editorial Board and past authors to champion ChJS as an emerging international journal and to encourage others to submit new works to the ChJS. Currently, we are indexed by several international systems, including the Institute for Scientific Information (ISI) Web of Science in the Emerging Sources Citation Index. The ChJS faces important challenges for the near future, such as reaching the Science Citation Index and looking for partnerships with prestigious publishers, societies and associations. However, just as with statistics itself, our success will depend on a team effort. Each one of us is important in meeting these challenges. We need you all.

Carolina Marchant and Víctor Leiva
Editors-in-Chief
Chilean Journal of Statistics

Information for authors

The editorial board of the Chilean Journal of Statistics (ChJS) is seeking papers, which will be refereed. We encourage the authors to submit a PDF file of the manuscript in a free format to Editors of the ChJS (E-mail: `chilean.journal.of.statistics@gmail.com`). Submitted manuscripts must be written in English and contain the name and affiliation of each author followed by a leading abstract and keywords. The authors must include a"cover letter" presenting their manuscript and mentioning: "We confirm that this manuscript has been read and approved by all named authors. In addition, we declare that the manuscript is original and it is not being published or submitted for publication elsewhere".

Preparation of accepted manuscripts

Manuscripts accepted in the ChJS must be prepared in Latex using the ChJS format. The Latex template and ChJS class files for preparation of accepted manuscripts are available at `http://chjs.mat.utfsm.cl/files/ChJS.zip`. Such as its submitted version, manuscripts accepted in the ChJS must be written in English and contain the name and affiliation of each author, followed by a leading abstract and keywords, but now mathematics subject classification (primary and secondary) are required. AMS classification is available at `http://www.ams.org/mathscinet/msc/`. Sections must be numbered 1, 2, etc., where Section 1 is the introduction part. References must be collected at the end of the manuscript in alphabetical order as in the following examples:

Arellano-Valle, R., 1994. Elliptical Distributions: Properties, Inference and Applications in Regression Models. Unpublished Ph.D. Thesis. Department of Statistics, University of São Paulo, Brazil.

Cook, R.D., 1997. Local influence. In Kotz, S., Read, C.B., and Banks, D.L. (Eds.), Encyclopedia of Statistical Sciences, Vol. 1., Wiley, New York, pp. 380-385.

Rukhin, A.L., 2009. Identities for negative moments of quadratic forms in normal variables. Statistics and Probability Letters, 79, 1004-1007.

Stein, M.L., 1999. Statistical Interpolation of Spatial Data: Some Theory for Kriging. Springer, New York.

Tsay, R.S., Peña, D., and Pankratz, A.E., 2000. Outliers in multivariate time series. Biometrika, 87, 789-804.

References in the text must be given by the author's name and year of publication, e.g., Gelfand and Smith (1990). In the case of more than two authors, the citation must be written as Tsay et al. (2000).

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