

Editorial

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Dear readers, authors, referees, and collaborators.

Welcome to the first issue of Volume 49 of the *Revista Colombiana de Estadística* (RCE).

It has been a year since I became editor-in-chief of the Colombian Journal of Statistics, following Professor Juan Sosa, whose dedication improved our metrics and expanded our reach in the statistical community. To date, we have published two regular issues, each containing articles of a theoretical nature, as well as applications with theoretical support, both statistical and in the area of application. Since my appointment, we have published two regular issues, featuring both theoretical articles and applications supported by statistical methodology, as well as applications in their respective fields. In July last year, Professor Fernando Peña joined as an associate editor. With his collaboration, we published the second issue as well as a special issue highlighting the latest developments in doctoral and master's theses from Colombian and Brazilian graduate programs, further strengthening our publication's contribution to academic advancement in the region.

This first issue of the year for the RCE presents a collection of research articles covering both theoretical developments and practical applications in the field. The current volume reflects the international scope of the journal, featuring contributions from researchers based in Asia (India, Pakistan, Iran, Iraq), Africa (Nigeria, South Africa), North America (Canada, USA), Oceania (New Zealand), and a robust presence from Latin America (Brazil, Argentina, and Colombia). This plurality of perspectives confirms that the language of data transcends borders, fostering a truly international dialogue.

From a methodological standpoint, this issue presents a solid collection of works focused on sampling theory and inference. These papers tackle persistent challenges such as measurement error, non-response bias, and the calibration of estimators. These topics remain fundamental to ensuring the accuracy of population-level insights. Furthermore, we explore the frontiers of statistical modeling through

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innovative research on modal beta regression, bivariate simplex distributions, and the analysis of symbolic data (interval valued) using both frequentist and Bayesian paradigms. We also highlight the inclusion of cutting-edge frameworks, such as neutrosophic Markov chains, which offer new ways to capture uncertainty and indeterminacy in stochastic modeling

Beyond pure methodology, the value of statistics is validated by its power to address social realities. This issue includes high impact applications in critical areas: (i) Justice and Memory: An innovative use of natural language processing and linguistic networks to analyze public hearings of the Special Jurisdiction for Peace (JEP) in Colombia, providing empirical tools for the collective construction of truth; (ii) Public Health: The application of semiparametric models to analyze breast, cervical, and lung cancer mortality trends in Colombia and beyond; and (iii) Behavioral and Legal Sciences: Empirical studies in Psychometrics and Jurimetrics that demonstrate the versatility of constrained interval distributions.

This edition is the result of the collective dedication of our authors, reviewers, and editors. We thank the academic community for choosing this journal as a venue for their findings. We invite our readers to examine the articles presented in this volume. These works include algebraic derivations of estimators and computational methods, with all contributions focused on generating knowledge based on evidence.

Kind regards,

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