



## CALL FOR PAPERS

### IX Latin American Conference on Statistical Computing (LACSC) 2025

#### Background

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The Latin American Conference on Statistical Computing (LACSC) is the main academic activity of the IASC, and a notable meeting place for researchers in this field, not only from Latin America but also from around the world. LACSC has been hosted in Brazil (2016), Chile (2017), Costa Rica (2018), Ecuador (2019), Mexico (2021), Brazil (2022), Peru (2023), and Costa Rica (2024).

This year, the **IX Latin American Conference on Statistical Computing (LACSC)** will be hosted in Valparaíso, Chile, by the Universidad de Valparaíso and the Interdisciplinary Center for Biomedical and Health Engineering Research (MEDING), in collaboration with the Millennium Institute for Intelligent Healthcare Engineering (iHEALTH) and the Latin American Regional Section of the IASC (IASC-LARS). The event is proudly endorsed by the International Statistical Institute (ISI), the American Statistical Association (ASA), the International Association for Statistical Computing (IASC), the International Society for Business and Industrial Statistics (ISBIS), the Chilean Statistical Society (SOCHE), and the Chilean Association for Pattern Recognition (ACHIRP).

The theme "**The Frontiers of Statistical Computing and Data Science in the Artificial Intelligence Era**" highlights the convergence of statistical methodologies and computational advancements driving the current revolution in artificial intelligence (AI). This theme explores the integration of traditional and cutting-edge statistical principles with modern AI technologies, emphasizing how computational tools empower data-driven decision-making across diverse domains. The focus is on the evolving role of statistical computing as a foundational pillar in developing, validating, and enhancing AI systems, with applications ranging from healthcare and finance to climate science and autonomous systems.

This conference theme encourages collaboration among statisticians, computer scientists, and domain experts to address pressing societal challenges, harnessing the power of statistical computing and AI to drive innovation and knowledge discovery in the modern era.



## Important Dates

July 31st, 2025	Submission of extended abstracts (invited, contributed, and poster proposals).
September 1st, 2025	Notification of review results to authors.
September 30th, 2025	Final camera-ready submission.
September 1st–30th, 2025	Early registration.
October 1st–15th, 2025	Standard registration.
October 16th–31st, 2025	Late registration.
November 4th, 2025	Spring School on Statistical Computing.
November 5th–7th, 2025	Conference LACSC 2025

## Topics of Interest

Artificial intelligence, statistics, machine learning, multivariate analysis, data mining, nonparametric statistics, big data analysis, spatial statistics, deep learning, robust statistics, extreme value theory, time series analysis, multi-block methods, high-dimensional data analysis, latent variable models, symbolic data analysis, compositional data analysis, functional data analysis, censored data analysis, fuzzy data analysis, Bayesian analysis, biostatistics and biocomputing, statistical signal processing, text processing, data visualization, resampling methods, numerical analysis and optimization methods in computational statistics, data structure and complex data, parallel computing.

## Submission Guidelines

Authors may participate through Invited Paper Sessions (IPS), Contributed Paper Sessions (CPS), or Poster Presentations. While the conference is primarily in-person, some sessions may be conducted in a hybrid format to accommodate remote participation.

- **Invited Paper Sessions (IPS)** are 80-minute sessions organized by a session chair and composed of 3 or 4 speakers presenting on a unified theme. Proposals must include the session title, a brief description of the topic, and the names and affiliations of all speakers. Coordinators are responsible for assembling and submitting the full session proposal
- **Contributed Paper Sessions (CPS)** are 80-minutes sessions composed of 3 to 4 oral presentations (15 minutes approx. each). The Scientific Committee will group the accepted abstracts by topic to form cohesive sessions.
- **Poster presentations** offer a space for academic dialogue and the exchange of ideas around ongoing or completed research. Two dedicated Poster Sessions will be held, during which authors are expected to stand beside their posters to present and discuss their work.

## Extended Abstracts:

The abstracts should be formatted to include the following:

- Title – 100 characters. Please refrain from using all caps.
- Authors and Affiliations.



- Introduction, Methods, Results, Conclusions – 4000 Total Character Limit (includes spaces)
- Keywords (at least 3 and maximum 5)
- Figures and Tables (optional / maximum 5)
- References (maximum 10). Please use APA citation style.

Each submission can be written in English, Spanish, or Portuguese. The abstract must also include the names and institutional affiliations of all authors. Submissions must be made through the following platform:

<https://app.oxfordabstracts.com/stages/77850/submitter>. All Accepted abstracts will be published in the conference proceedings.

### Special Issue

Authors of selected contributions will be invited to submit a full-length paper for consideration in the special issue titled *Frontiers of Statistical Computing and Data Science in the Artificial Intelligence Era*, to be published in the journal [\*Applied Stochastic Models in Business and Industry\*](#) (ASMBI). Papers should present new methods/algorithms and/or interesting applications of existing methods that are relevant to business and industry. All submissions will go through the usual review process of ASMBI.

### How to Submit

Submission platform and additional details are available at the conference website:

<https://www.lacsc2025.cl/>

### Event Organizers

