*27th Ibero-American Conference on Software Engineering (CIbSE 2024) Curitiba, Paraná, Brazil, 6-10 May 2024

MPORTANT DATES
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Main Conference:
● Abstract submission: 16 January 2024
● Paper submission: 30 January 2024
● Notification: 11 March 2024
● Final version (camera ready): 18 March 2024

Doctoral Symposium and Journal First:
● Paper submission: 30 January 2024
● Notification: 11 March 2024
● Final version (camera ready): 18 March 2024

CIbSE is the leading Software Engineering research forum in Ibero-America. The main objective of this conference is to promote high quality scientific research in Iberoamerican countries and, thus, to support researchers in this community in the publication and discussion of their work. In addition, the conference fosters collaboration and scientific production between academics, students and the software industry.

CIbSE 2024 will be held in Curitiba, Paraná State, Brazil and will include invited talks from influential researchers in the Software Engineering community. CIbSE 2024 will be held alongside three satellite events: the Doctoral Symposium, the 7th edition of the Ibero-American Advanced Software Engineering School (EIbAIS) and Industry Talks. The Doctoral Symposium is organised to discuss the ongoing work of doctoral theses related to the general area of Software Engineering. EIbAIS combines lectures and tutorials on current trends in Software Engineering by renowned speakers. The Industry Talks aim to bring together academics and practitioners from the local community to discuss Software Engineering issues in practice. In this edition of CIbSE, it is also proposed the submission of articles of R&D projects and contracts with companies, where researchers can describe their current lines of research with funding from national and international calls, as well as contracts with companies in which actions of technological transfer of value in the field of Software Engineering are carried out.

TOPICS OF INTEREST
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Topics of interest include, but are not limited to:

- Application of Artificial Intelligence to Software Engineering.
- Software architecture and variability
- Human and social aspects of Software Engineering
- Software quality, quality models and technical debt management
- Open Science for Software Engineering
- Software reliability
- Software economics
- Software ecosystems and systems of systems
- Software Engineering education and training
- Software evolution and modernisation
- Requirements engineering and software modelling
- Search-based Software Engineering
- Software Engineering and data science
- Continuous Software Engineering (Agile Development, DevOps, Continuous Delivery, Continuous Integration, etc.)
- Software Engineering for emerging application domains (blockchain, cloud computing, cyber-physical systems, Internet of Things, Industry 4.0, etc.)
- Quantum Software Engineering
- Experimental Software Engineering
- Industrial experience reports in Software Engineering
- Software product lines and processes
- Research methods in Software Engineering
- Software repository mining and software analytics
- Software processes
- Software reuse
- Software testing

SUBMISSION GUIDELINES
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Authors are invited to submit high quality research papers describing significant, original and previously unpublished results in Software Engineering, in any of the official languages of CIbSE: English, Spanish and Portuguese.

The following article categories are welcome:

**Technical papers (no more than 15 pages): papers describing innovative research in the topics of interest of the conference. Papers in this category should describe an original contribution to the topics and should carefully support claims of novelty with citations to relevant literature.
Technical papers are evaluated on the basis of originality, strength, relevance, significance of the contribution, level of validation, quality of presentation and comparison with related work. When an article builds on previous work by the

author(s), the novelty of the new contribution should be clearly described with respect to the previous work. Technical papers should clearly discuss how the results were validated.

Among the technical papers presented at the conference, a set of the best papers will be selected for publication in a journal indexed in the Journal of Citation report (JCR). Additionally, the best paper will receive a certificate of recognition.

**Emerging ideas papers (no more than 8 pages): papers describing new and unconventional approaches that depart from standard practice, on the topics of interest of the conference. They are intended to describe clear research ideas that are at an early stage of development.

Papers on emerging ideas will be evaluated primarily on their level of originality and potential impact on the field with respect to promoting innovative thinking. Therefore, gaps in the state of the art and the relevance, correctness and impact of the idea should be accurately described. While the idea being presented does not need to be fully validated, a presentation of preliminary results is expected to provide initial information on the feasibility and impact of the contribution.

**Articles on applied R&D projects or contracts with companies (no more than 4 pages): these contributions must deal with R&D projects that are in progress at the time of submission. For these articles the following information should be included: summary, main objective, beneficiaries of the proposal, technologies used and results obtained (so far and expected).

**Poster papers (no more than 2 pages): papers that describe an idea or initial state of a study, related to the topics of interest of the conference, and without the need to have obtained tangible results at the time of submission. The main objective is to enable conference participants to discuss these ideas with the authors and to contribute new insights to the work in progress. Accepted papers will be presented in poster format in a session during which interaction between authors and conference attendees will take place. In addition, the best poster will receive a certificate of recognition.

Submission

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All papers must be submitted through EasyChair, using PDF format only (https://easychair.org/conferences/?conf=cibse2024). Submissions should follow the Brazilian Computer Society style for conference papers (https://www.sbc.org.br/documentos-da-sbc/summary/169-templates-para-artigos-e-capitulos-de-livros/878-modelosparapublicaodeartigos). Accepted technical and emerging ideas papers will be included in the conference proceedings, which will be made available through the Open Digital Library of the Brazilian Computer Society - SOL (https://sol.sbc.org.br/index.php/anais) and Curran Associates (http://www.proceedings.com/), and subsequently indexed in DBLP and Scopus. Accepted papers on applied R&D projects or contracts with companies, and posters, will be published through CEUR Proceedings.

At least one author of each accepted article must register before the deadline for the final version. One registration corresponds to one paper only. Any author of each accepted paper must submit it personally or the paper will be excluded from the proceedings. If an author has more than one accepted paper, it is possible to pay 50% of the registration fee for the second and subsequent co-authored papers.

Papers that are not within the scope of the conference, do not follow the formatting guidelines, or have been submitted or published in any other forum (conference or journal) will be rejected without review. All other submissions will be reviewed by at least three members of the Programme Committee.

Journal First

Authors of papers on the topics of interest of the conference and accepted in JCR Q1 or Q2 journals are invited to present their research work at CIbSE. This provides an opportunity for authors to discuss their work with the community, as well as to enrich the technical programme of CIbSE. Presentations of these papers will be included in the CIbSE 2024 programme. The main evaluation criterion for selecting papers is the description of original results that are not extensions of previous conference papers. In addition, the article must have been accepted for publication in the journal during 2022, and must not have been presented at any other conference as a journal-first contribution.

At least one author of each selected paper must register before the submission date of the final version of the paper and present it at the conference.

Authors interested in submitting journal-first articles to CIbSE 2024 should submit their proposals of no more than one page, in PDF format via EasyChair (https://easychair.org/conferences/?conf=cibse2024). The following information should be provided: (i) title of the article; (ii) list of authors; (iii) affiliation; (iv) keywords; (v) journal and information on its impact factor, ranking and quartile (Q1 or Q2); (vi) DOI; and (vii) abstract. Articles must be written in English, Portuguese or Spanish.

Doctoral Symposium

The Doctoral Symposium aims to disseminate ongoing research by junior researchers, where a panel of experts will discuss with researchers to suggest new perspectives and improvements to doctoral theses.

The research submitted can address any of the topics of interest of CIbSE 2024. We recommend, but do not require, that the research is at an intermediate stage (~2nd year) so that expert suggestions can be included in the PhD thesis.

The suggested structure of the articles is as follows:

- Introduction to the field of research and identification of the main challenges in the field.
- Explicit formulation of the research questions and objectives, justifying why they were chosen.
- Summary of the current knowledge of the problem domain as well as the state of existing solutions.

- Outline of the research methodology being applied.
- Introduction of the proposed solution and the results obtained to date.
- Statement of the aspects of the suggested solution that make it different or better compared to existing approaches.
- Statement of outstanding issues and description of the next steps that are planned.
- List of references.

Papers for the Doctoral Symposium will be written exclusively by doctoral students (therefore, the name of the thesis supervisor should not be included). All papers must be submitted in PDF format via EasyChair (https://easychair.org/conferences/?conf=cibse2024). Articles should be written in English, Portuguese or Spanish, and should not exceed 8 pages. Accepted papers will be included in the conference proceedings. Authors of accepted papers must register before the deadline for the final version. Papers may be presented in person or online (hybrid), the latter option is recommended. Finally, the best paper will receive a certificate of recognition.

EIbAIS

The Ibero-American Advanced School of Software Engineering (EIbAIS) represents the CIbSE's initiative to spread the knowledge of Software Engineering in Ibero-America.

EIbAIS aims to promote a forum for discussion on Software Engineering and its related technologies and theoretical foundations, through the participation of professionals, undergraduate and graduate students, and researchers. The tutorials are given by volunteers committed to contribute to the CIbSE community and to spread the knowledge of Software Engineering in Ibero-America.

EIbAIS is organised in two categories of sessions: (i) on the state of the practice and (ii) on the state of the art.

State of the practice sessions offer discussions on topics of general interest and often represent local demand. These sessions support the exchange of knowledge and practical issues with participants, presenting evidence-based Software Engineering results to the audience. Examples of state of the art topics include User-Centered Design, DevOps, Internet of Things, Microservices and Software Engineering for Data Science, Quantum Software Development, among others.

State of the art sessions offer discussion on emerging topics of interest and generally represent the perspectives of the Software Engineering research and innovation community. These sessions are intended to provide information on current and future Software Engineering technologies that could represent innovative concepts in the field. The state-of-the-art topics include the same topics of the conference.

All participants attending the sessions will receive a certificate of participation, indicating the sessions, lecturers and contents.

Industry Talks

Industry Talks aim to provide practitioners with a means to present and discuss their current work regarding real-world applications of Software Engineering. Talks exploring best practices, problems and solutions, emerging

challenges in industry and other topics related to Software Engineering are welcome. Practitioners and researchers are invited to work together to explore how Software Engineering processes, methods, techniques and tools can provide industry with better solutions.

GENERAL ORGANISING COMMITTEE
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