



CLEI XLVIII calls for papers reporting results of a theoretical nature and/or practice that advance the state of the art or present relevant applications or cases in the areas of interest of the symposia or associated events. CLEI XLVIII will be held in Armenia, Colombia, from October 17 to 21, 2022.

The Latin American Computing Conference (CLEI) is an annual event organised by the Latin American Center for Computational Studies (CLEI), and since 1974, it is a travelling event between Latin American countries. CLEI is the main Latin American forum for exchanging ideas, experiences and research results between researchers, professionals and students in informatics and computer science and engineering, as well as its technological applications, through conferences, workshops, tutorials and panels.

Venue: Hotel Campestre Las Camelias, Armenia, Colombia

Date: October 17 to 21, 2022

Important dates:

- Papers submission deadline: April 17, 2022
- Notification to authors: June 26, 2022
- Final version submission (Camera Ready): July 31, 2022

Submission of papers:

Papers must be written in English, Portuguese or Spanish, and will be reviewed by an international program committee composed of members from academia and industry.

Articles submission must be done through EasyChair:

<https://easychair.org/conferences/?conf=clei2022>

Authors must select the Symposia or Associated events carefully.

Format for Submitting Papers:

Full works, of up to 10 pages, must be submitted, in PDF, abiding to the IEEE

"Manuscript Templates for Conference Proceedings":

https://www.ieee.org/conferences_events/conferences/publishing/templates.html

Submitted works shall not have been published or be in the process of review by any other conference or national or international publication. Authors must abide the authors conduct code of CLEI: <https://www.clei.org/codigo-de-conducta-para-los-autores/>

Review process:

Papers will be reviewed in a "single blind review" way, by at least three members of the Program Committee. Reviewers abide the reviewers conduct code of CLEI:

<https://www.clei.org/codigo-de-conducta-de-los-revisores/>

Paper presentation:

Authors of accepted papers will have 20 minutes for their oral presentation, and further 5 minutes for discussion. Submitted papers must conform to the main themes of one of CLEI symposium or events (the proposed topics for each theme are just indicative; they do not intend to be restrictive.) Please check the full list of symposia and associated events at the end of this document.

Publication and Indexing:

In order to guarantee the publication of an accepted article in the Conference Annals, at least one of the authors must register for the conference. The article must also abide by the IEEE format and it shall not exceed the maximum number of pages allowed. In addition, the authors of works that receive recommendations of modifications must follow these recommendations before the final submission. Only articles (full papers) from CLEI 2022 symposia will be sent to be indexed at the IEEE Xplore Digital Library.

The best articles will be selected for possible publication in the journal, indexed by Scopus, CLEI Electronic Journal. Invited authors must submit an enhanced and extended version of the original article in English, which will undertake a new review process.

General chair:

Fáber Giraldo Velásquez, Universidad de Quindío, Colombia

Program Chairs:

Kelly Garcés Pernet, Universidad de los Andes, Colombia

Paula Zabala, Universidad de Buenos Aires, Argentina

SYMPOSIA

<https://www.uniquindio.edu.co/clei2022/publicaciones/1200/simposios/>

SLISW - Latin American Symposium on Software Engineering**Chairs:**

Carlos Parra, Pontificia Universidad Javeriana, Colombia

Cynthia Villalba, Universidad Nacional de Asunción, Paraguay

SLISW provides a forum for the Latin American community of Software Engineering to exchange ideas, experiences and research results among teachers, researchers, industry professionals and students.

Original contributions are sought in the broad framework of Software Engineering, comprising academic research, industrial and business applications that both make an impact and provide lessons on their development.



SLIOIA - Latin American Symposium on Operations Research and Artificial Intelligence

Chairs:

Laura Cabrera Quiros, Tecnológico de Costa Rica, Costa Rica

Luis Castillo Ossa, Universidad de Caldas, Colombia

SLIOIA provides a forum for the Latin American community of Artificial Intelligence and Operations Research to exchange ideas, experiences and research results among teachers, researchers, students and industry professionals. Original contributions are sought in the diverse areas of Artificial Intelligence and Operations Research, comprising academic research, industrial and business applications that both make an impact and provide lessons on their development.

SLIS - Latin American Symposium on Computing and Society

Chairs:

Cesar Collazos, Universidad de Cauca, Colombia

Cesar Garita, Tecnológico de Costa Rica, Costa Rica

SLIS is an event that aims at studying, using an interdisciplinary approach, how information and communication technologies (e.g. computer science and digital technologies) and our Latin American societies relate (how they articulate and co-construct themselves). Original contributions are sought in the field of social studies of information and communication technologies and their relationship to the construction of our societies (including, but not limited to, historical, sociological, economic, juridical and political studies).

SLMDI - Latin American Symposium on Data and Information Management

Chairs:

Karin Becker, Universidade Federal do Rio Grande do Sul, Brasil

Marta Tabares Betancur, EAFIT, Colombia

SLMDI provides a forum for the Latin American community of Data and Information Management to exchange ideas, experiences and research results among teachers, researchers, industry professionals and students. It is an event dedicated to the discussion of new methods in the area of data and information management. It takes a broad view of the subject, stretching from data organisation, modelling and recovery to data and information recovery and analysis.



SLPNASO - Latin American Symposium on Business Processes, Architectures and Enterprise Systems

Chairs:

Michael Arias, Universidad de Costa Rica, Costa Rica

Bell Manrique Losada, Universidad de Medellín, Colombia

SLPNASO provides a forum for the Latin American community of Business Process, Architectures and Enterprise Systems to exchange ideas, experiences and research results among teachers, researchers, industry professionals and students. It focuses on the advances in the disciplines of Business Processes, Architectures, and Organisational Systems, broadly considering aspects of modelling, design, implementation, execution and evaluation of distributed, complex, collaborative and interoperable software systems.

SLCGRVPI - Latin American Symposium on Computer Graphics, Virtual Reality and Image Processing

Chairs:

Esteban Clua, Universidade Federal Fluminense, Brasil

Helmuth Trefftz, EAFIT, Colombia

SLCGRVPI is a forum for the Latin American community of Computer Graphics, Virtual Reality and Image Processing to exchange ideas, experiences and research results among teachers, researchers, industry professionals and students. It seeks original contributions related to Computer Graphics, Virtual, Augmented and Mixed Reality, and Image Processing, comprising academic research, industrial and business applications that make an impact and provide lessons on their development.

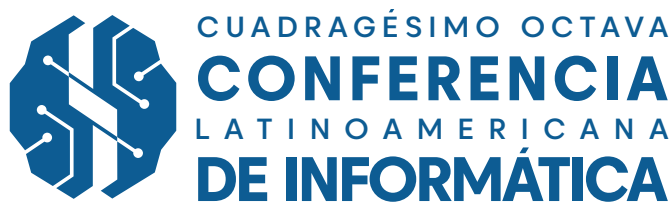
SLIHS - Latin American Symposium on Infrastructure, Hardware and Software

Chairs:

Mariela Curiel, Pontificia Universidad Javeriana, Colombia

Enzo Rucci, Universidad Nacional de La Plata, Argentina

SLIHS is an event that brings together the Latin American community of Infrastructure, Hardware and Software to exchange ideas, experiences and research results among teachers, researchers, industry professionals and students. Original contributions are sought in the areas of Network Infrastructure, Computer Architecture, High-Performance Computing, and Cloud Computing, comprising academic research as well as industrial and business applications that make an impact and provide lessons on their development.



SLTC - Latin American Symposium on Theory of Computation

Chairs:

Jesús Aranda Bueno, Universidad del Valle, Colombia

Pablo Castro, Universidad Nacional de Río Cuarto, Argentina

SLTC is an event that brings together the Latin American community of Theory of Computation in a forum to exchange ideas, experiences and research results among teachers, researchers, and students.

This symposium focuses on the advances in the disciplines of Theory of Algorithms, Computability and Complexity, Automata and Formal Languages, Principles and Semantics of Programming Languages, Concurrency Models, Security and Mobility, Logic and its Applications to Computing, Formal Models for Requirements, Components and Architectures of Software, Foundations and Formal Techniques for Software Analysis, Type Theory, and Theory of Categories for Computer Science.

SIESC - XXX Iberoamerican Congress on Higher Education in Computing

Chairs:

María Clara Gómez, Universidad de Medellín, Colombia

Pablo Torres Carrion, Universidad Técnica Particular de Loja, Ecuador

SIESC is an event that brings together the Latin American community interested in higher education in computing to exchange ideas, experiences and research results among teachers, researchers, industry professionals and students. This symposium focuses on interdisciplinary factors in computing and informatics education, education at the beginning of a career in computer science (at the tertiary or university levels) and didactics of computer science: different theoretical approaches and/or practical applications, types of methodology and models of university-company partnerships.

ASSOCIATED EVENTS

CLTM - XXIX Latin American Contest of Master Thesis

Chairs:

Héctor Cancela, Universidad de la República, Uruguay

Rhadamés Carmona, Universidad Central de Venezuela, Venezuela

CLTM aims at disseminating the work of Latin American students who have recently completed their Master's thesis in Computing or Informatics, whose content is related to any of the areas described in IEEE/ACM documents on the computing curriculum. Only students graduated from a university that is a member of CLEI can participate in the contest (<https://www.clei.org/instituciones-miembro/>).

CLTD - VIII Latin American Contest of Doctoral Thesis

Chairs:

Gabriela Marín, Universidad de Costa Rica, Costa Rica

José Francisco Tirado Fernández, Universidad Complutense de Madrid, España

CLTD aims at disseminating the work of Latin American students who have recently completed their Doctoral Theses in Computing and Informatics. By that is meant a thesis whose content is related to any of the areas described in IEEE/ACM documents on the computing curriculum. Only students graduated from a university that is a member of CLEI can participate in the contest (<https://www.clei.org/instituciones-miembro/>).

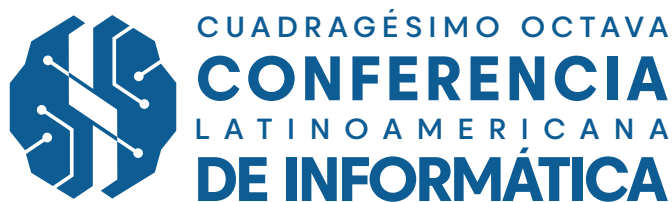
LAWCC - XIV Latin American Women in Computing Congress

Chairs:

María Elena García, Universidad Nacional de Asunción, Paraguay

Maristela Terto De Holand, Universidade de Brasília, Brasil

LAWCC will be held as part of XLVI CLEI. Its main objective is to highlight the research, interests, and achievements of women in the various areas of computing, with the intention of encouraging the active participation of more women. The paper presentations will hopefully help to identify the challenges women face in the area of Information and Communications Technologies (ICT), teaching, labour market and research. LAWCC seeks ways to address recurrent problems related to gender and foster dialogue with society on these matters.



WNAPC - XII Workshop on Accreditation and Nomenclature of Computing Programs

Chairs:

Ernesto Cuadros-Vargas, Sociedad Peruana de Computación, Perú

WNAPC brings together academics, administrators and professors from Latin America, Spain and the United States to examine the variation of names of computing programs in relation to their contents and to elaborate proposals on that matter. Due to this variation, there is a need to reach a joint agreement on competencies that represent the main careers of the Computing area. The event aims at identifying specific content differences in undergraduate computing careers across several Latin American countries, as well as at strengthening existing de facto standards. The workshop organisers consider it very important that undergraduate programs be coherent in their content, the set of skills they foster, the degrees they award and the training of the faculty. The organisers believe that that coherence would increase the mobility of professionals within the region and also outwards, greatly increasing the level of understanding of who we form in our programs. Industry's medium-term interest is also contemplated, as it will simplify the development of projects in more than one country.

LANC - XII Latin American Networking Conference

Chairs:

Héctor Cancela, Universidad de la República, Uruguay

LANC is an international technical forum for experts from industry and academia from around the world, but especially from Latin American countries, to exchange ideas and present results of ongoing research in the networking area.

ELI - I Latin American School of Informatics

Chairs:

Yudith Cardinale, Universidad Simón Bolívar, Venezuela

Edwin Montoya, Universidad EAFIT, Colombia

The objective of ELI is to promote a space for training in Computer Science and Informatics, allowing the participation of professionals, undergraduate and postgraduate students, and researchers. This school begins as a natural evolution of the CLEI tutorials and short courses, including avant-garde topics related not exclusively to the symposiums.