

18 CONGRESO COLOMBIANO DE COMPUTACIÓN

MANIZALES, Del 4 al 6 de Septiembre 2024

CALL FOR PAPERS 18CCC

From September 4 to 6, 2024

Universidad Nacional de Colombia

Manizales, Colombia

Website: <https://sco2.org/18ccc/>

Contact: 18ccc_man@unal.edu.co, ccc@sco2.org

Presentation

The Colombian Computer Congress is the annual meeting organized by the Colombian Computer Society (www.sco2.org). It is a nationally organized event with international coverage and a strong presence in Latin America. Its objective is to promote the strengthening of the Colombian community in information technology and computing, bringing together researchers, students, professionals, and practitioners, both national and international.

The Colombian Computer Society (SCo2) has organized this event since 2005 (Cali) within the framework of CLEI 2005, in Bogotá (2007), Medellín (2008), Bucaramanga (2009), Cartagena (2010), Manizales (2011), Medellín (2012) within the framework of CLEI 2012, Armenia (2013), Pereira (2014), Bogotá (2015), Popayán (2016), Cali (2017), Cartagena (2018), Pasto (2019), in a pandemic it was not done (2020), Bogotá remote format (2021), Armenia (2022) and Medellín (2023).

The 18th edition of the Colombian Computer Science Congress (18CCC'24) will be held in the city of Manizales, Caldas, in the heart of the coffee region, between September 4 and 6, 2024, at the National University of Colombia - Manizales Campus, coordinated by the Department of Informatics and Computer Science in collaboration with research groups from the campus and national and international institutions. This event aims to create a space for the exchange of ideas, techniques, methodologies, and tools with a multidisciplinary approach, promoting synergy between researchers, professionals, students, and companies related to the topics of interest of the Congress.

The event focuses on the presentation of research papers with significant contributions to knowledge or innovative experiences in different areas of computing. Among others, the congress includes keynote lectures, contributions, discussion forums, workshops, competitive programming marathon and a symposium for master's and doctoral students, institutional and business showcase (booth during the congress).

18CCC'24 invites submissions of articles that report theoretical and/or practical results that advance the state of the art or present relevant applications or cases in the areas of the event.

Topics of interest to the Congress

The main topics (but not exclusive) are:

- Artificial intelligence
- Biological computing
- Computational statistics
- Cybersecurity and information security
- Data, information and knowledge
- Education and ICT - e-Learning
- Enterprise Architecture and Information Systems
- Formal methods in computational systems
- Green Computing
- High Performance / Large Scale Computing
- Human-Computer Interaction HCI
- Industry 4.0 / Digital transformation
- Information Technology Architectures
- Knowledge and information management
- Pattern recognition and computer vision
- Quantum computing
- Robotics
- Software Engineering and Automation
- Transformative Technologies and Sustainability
- Virtual, augmented and mixed reality

Important dates

Call for papers: February 16, 2024

Closing of call for articles: June 2, 2024

Notification [acceptance/rejection]: July 24, 2024

Final version [accepted]: August 4, 2024

Congress celebration: September 4 to 6, 2024

Closing of the Master's and Doctorate Symposium: June 20, 2024

Notification [acceptance/rejection]: July 24, 2024

Organizing Committee

Conference Coordinator

Prof. PhD. Luz Angela Aristizábal Quintero
National university of Colombia

Organizing Committee

National university of Colombia

Prof. PhD. Nestor Darío Duque Méndez

Prof. PhD. Valentina Tabares Morales

Prof. PhD. Ana Lorena Uribe Hurtado

Prof. PhD. Mauricio Orozco Alzate

Prof. PhD. Eduardo Villegas Jaramillo

Prof. PhD. Leonardo Bermón Angarita

Prof. PhD. German Augusto Osorio Zuluaga

Prof. PhD. Luz Arabany Ramírez Castañeda

Prof. Mag. María Amparo Prieto Taborda

Prof. PhD. Jheimer Julián Sepulveda López

Manuscript Submission, Review, Publication

The reviews of the manuscripts will be double blind carried out by national and international experts. We invite submissions of high-quality research articles describing original and unpublished research results considering the following.

Types of manuscripts and content

Authors wishing to participate in 18CCC '24 must submit original, unpublished material (a) a full article, (b) a short article, or (c) a poster.

Manuscript specifications

Initial Submission format:

Portable Document Format (PDF)

Manuscript size, language:

Full paper: 10-16 pages (English only)

Short paper: 6-9 pages (English, Spanish or Portuguese)

The limit on the number of pages will be strictly observed in the admission of the manuscript to the review process.

Poster: 1 page (English or Spanish)

Review Type:

Double-blind. Authors **must eliminate** from the initial submission all information and expressions that indicate their identity.

Such data will be allowed in the final version

Manuscript format:

LaTEX or Microsoft Word according to guides in:

<http://www.springer.com/la/computer-science/lncs/conference-proceedings-guidelines>

Manuscripts whose format deviates from this specification will not be published.

Submission System:

<https://easychair.org/conferences/?conf=18ccc>

Additional and updated information:

<https://sco2.org/18ccc/>

Manuscript Ranking, Presentation, and Publication

Long and short articles accepted: Accepted long and short articles with the highest score will be published in the Springer Communications in Computer and Information Science book series; publication is subject to final evaluation by Springer and must be in English.

These works must be presented in sessions of the 18CCC '24 and at least one of the authors must register.

Posters: The posters will be on continuous display during 18CCC '24.

The presentations will be in person at the facilities of the National University of Colombia Manizales Campus. The best articles at the Congress may be invited to present extended versions in indexed journals allied to the SCo2.

Master's and Doctoral Symposium

Master's or Ph.D. students from programs related to Informatics and Computer Science are cordially invited to submit their projects for evaluation. The Symposium is a space for students to socialize their work and receive feedback from experts in the area that may be of help for their research plans.

During the 18CCC'24 the Master's and PhD Thesis Symposium will be held. The call for papers will be posted on the SCo2 website.

Submission must be made by
<https://cmt3.research.microsoft.com/SMD2024/Submission/Index>

Previously Published Works

The CCC recognized works track is a space for the discussion and dissemination of outstanding computing works that have been published by academics from our community in highly prestigious journal or conferences.

The objective of this space is to give our researchers the opportunity to share their best work with the local community. In this way we will be able to strengthen the ties of the SCo2 by showing cutting-edge work that is carried out in the country.

The invitation to participate is open to researchers to present their works published between January 2023 and June 2024. The articles must have at least one author with affiliation to a Colombian institution and have not been previously presented at the CCC.

For each submission, the completed form must be attached, available at
https://docs.google.com/document/d/1S5f79IRvPwHvMUV9eA4ziJ5I_CSYqyUk

Submission must be made by
<https://cmt3.research.microsoft.com/SMD2024/Track/4/Submission/Create>

Submitting a contribution implies that at least one of the authors must register as an author by 18CCC 2024. In case of acceptance, one of the authors must present their article.

Workshops and tutorials

This activity facilitates the dissemination of new technologies or scientific knowledge applied to society. The workshops are taught by companies or researchers who create and use computer technologies.

The call for workshops will be published on the 18CCC'24 website.