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~~ June 22, 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
	Prof. PhD. Nestor Darío Duque Méndez
Organizing Committee	Prof. PhD. Valentina Tabares Morales
National university of Colombia	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. PhD. Jheimer Julián Sepúlveda López
	Prof. Mag. María Amparo Prieto Taborda

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.

Manuscript specifications

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 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)
	It must be presented in free and unformatted text, including title, introduction, objectives, materials and methods, results and conclusions. Indicate if it is a poster presented by a Research Seedbed.
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:	Full and short papers must be submitted in LaTEX or Microsoft Word format 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 for full paper, short paper and poster: https://easychair.org/conferences/?conf=18ccc

Manuscript Ranking, Presentation, and Publication

Long and short articles accepted: Accepted full paper 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 accepted: The accepted posters will be on continuous display during 18CCC'24, at least one of the authors must register in this modality and participate in the poster presentation session. Certification of participation in the event will be given.

The presentations will be in person at the facilities of the National University of Colombia Manizales Campus.

In case of acceptance, it implies that at least one of the authors must register as author by 18CCC'24 and present their article at the conference.

Accepted works that are not included in Springer CCIS will be included in a book of proceedings, which will be available on the Web.

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/1S5f79lRvPwHvMUV9eA4ziJ5I_CSYqyUk

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

Workshops and tutorials

These activities facilitate the dissemination of new technologies or scientific knowledge applied to society.

Experts (preferably from industry or research projects) are invited to present workshops that will be held alongside the main conference.

The tutorials focus on activities that support the training process for different levels: students, early-career researchers, professionals seeking continuing education, and established researchers. Tutorials will focus on a specific topic of interest to the community.

The call is published on the website of the 18CCC'24: https://sco2.org/wp-content/uploads/callTutorialWS_En_v1.pdf