

10th Symposium

ICACIT 2024

October, 03-04

The 10th International Symposium on Accreditation of Engineering and Computing Education - ICACIT is the most important educational quality and accreditation event in Latin America. A space to share knowledge and experiences in accreditation, education, and continuous quality improvement among professionals from academia, industry and government. The event will be held in Hybrid mode.

Program

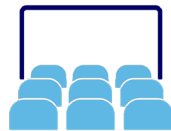
Call For Papers:



In the 10th edition, the Symposium's Call for Papers aims to continue promoting research on quality and accreditation in the education of engineers and professionals in the field of computing. The accepted papers presented orally at the event will be indexed in the IEEE Xplore Digital Library.



Workshops:



Led by professionals with great experience and internationally recognized. Workshops will be developed to offer you the tools and guidance to implement and maintain continuous improvement processes in higher education programs.

Self-Study Exhibition:



Only at the Symposium will you have access to a room with self-study reports of programs accredited by ICACIT. The self-study reports chosen do not necessarily demonstrate full compliance with the ICACIT criteria. However, they fulfill the purpose of exemplifying how to prepare the self-study report.

Co-organizer (Venue)

Founded in 1948 by Mario Laserna Pinzón, Universidad de los Andes is Colombia's first private, secular, and non-partisan university. With a commitment to excellence, it has consistently aimed to bridge the knowledge gap between Colombia and the global scientific community, driving innovation and national progress through education.



- Ranked 1st in Colombia.
- Ranked 6th in Latin America and the Caribbean.
- Ranked 179th worldwide.

Keynote Speakers



Ph.D. Edmundo Tovar

PastPresident
IEEE Education Society



Ph.D. Isabel Hilliger

Deputy Director of
Measurement, Evaluation
and Quality of the School of
Engineering
*Pontificia Universidad
Católica de Chile*



Ph.D. Sandro Paz

General coordinator of
accreditation and continuous
improvement of the Faculty of
Sciences and Engineering
*Pontificia Universidad
Católica del Perú*



Ph.D. Carlos Rodriguez

Academic Vice Dean of the
Faculty of Engineering
*Universidad de los Andes
de Colombia*



Ph.D. Rubby Casallas

Dean of the Faculty of
Engineering
*Universidad de los Andes
de Colombia*

Thursday, October 3rd

	Salon: RGD_106-7	Salon: RGD_112-13	Salon: RGD_110-11	
8:30 - 12:30	Registration of Participants and Delivery of Materials			
9:00 - 9:30	Opening of the ICACIT 2024 Symposium (Auditorio Lleras)			
9:30 - 10:00	Keynote Lecture No. 1 <i>Augmented Intelligence for Engineering Education</i> Ph.D. Rubby Casallas Gutierrez <i>Dean of the Faculty of Engineering, Universidad de los Andes de Colombia</i>			
10:00 - 10:15	Paper ID 23 Analysis of Student Facial Reactions During Classroom Instruction.  Andi Hutami Endang	Workshop N°1 <i>Implementing a Quality Assurance System based on International Accreditations</i> Ph.D. Sandro Paz Collado - General coordinator of accreditation and continuous improvement of the Faculty of Sciences and Engineering of the Pontificia Universidad Católica del Perú		
10:15 - 10:30	Paper ID 25 Enhancing Student Retention: Action Research on First-Year Pedagogical Strategies  Cristina Dreifuss-Serrano			
10:30 - 10:45	Paper ID 32 Key competencies for industry 5.0 in undergraduate engineering students.  Einstein Sánchez Bardales			
10:45 - 11:00	Paper ID 36 Visual and External Auditory in Information Retention.  Javier Hugo Morán Ruiz			
11:00 - 11:15	Coffe Break			
11:15 - 11:30	Paper ID 38 Prediction of Labor Insertion in Graduates based on the Pre-Professional Internship Process through a supervised Machine Learning model.  Maria Gabriela Camborda Zamudio			
11:30 - 11:45	Paper ID 39 Machine Learning model for predicting the achievement of the Graduate Profile through academic performance in university students.  Maglioni Arana Caparachin			
11:45 - 12:00	Paper ID 47 Relationship between internal communication and resistance to change in the teaching staff of an educational company.  Gisselle Katherine Valencia Cervantes	Exhibition of Self-study		
12:00 - 13:00	Keynote Lecture No. 2 <i>Sustainability experiences of continuous improvement processes</i> Pontificia Universidad Católica de Chile Ph.D. Isabel Hilliger Pontificia Universidad Católica de Chile (Salon: RGD_106-7)			
13:00 - 15:00	Free time for lunch			

Thursday, October 3rd

	Salon: RGD_106-7	Salon: RGD_112-13	Salon: RGD_110-11
15:00 - 15:15	<p>Paper ID 31</p> <ul style="list-style-type: none"> Learning chemistry through controversy? Reading discrepant perspectives to promote comprehension, multiple text integration, and epistemic emotions in freshmen engineering students <p> <i>María Felipa Cañas Cano</i></p>	<p>Workshop N°2 <i>Design of improvement plans in engineering programs</i> PhD. <i>Isabel Hilliger</i> - Deputy Director of Measurement, Evaluation and Quality of the School of Engineering at Pontificia Universidad Católica de Chile</p>	<p>Exhibition of Self-study</p>
15:15 - 15:30	<p>Paper ID 50</p> <ul style="list-style-type: none"> Internship Performance of Chemical Engineering Students in Cusco, Peru <p> <i>Uriel Raul Fernandez Bernola</i></p>		
15:30 - 15:45	<p>Paper ID 54</p> <ul style="list-style-type: none"> Educational model to develop work skills in students at a higher education institute in Lima, Peru <p> <i>Katherine Paola Ramirez Arias</i></p>		
15:45 - 16:00	<p>Paper ID 57</p> <ul style="list-style-type: none"> Ethical challenges in the teaching of specialized subjects in the training of industrial engineers <p> <i>Juan Lara Herrera</i></p>		
16:00 - 16:15	<p>Paper ID 58</p> <ul style="list-style-type: none"> Social dimension of the evaluative culture of learning and student satisfaction <p> <i>Jeniffer Doris Garcia Chauca</i></p>		
16:15 - 16:30	<p>Paper ID 63</p> <ul style="list-style-type: none"> Impact of Aneaes Accreditations on the Continuous Improvement of the Production Systems Engineering Program at the Polytechnic Faculty of the National University of Asunción <p> <i>Zulma Lucia Demattei Ortiz</i></p>		
16:30 - 16:45	<p>Paper ID 64</p> <ul style="list-style-type: none"> Automated Prototype for Demonstrating the Properties of Gases in Natural Science Laboratories <p> <i>Adolfo Duarte Rueda</i></p>		
16:45 - 17:00	<p>Paper ID 15</p> <ul style="list-style-type: none"> Characteristics of University Happiness Conditions and Academic Performance: A Case Study of a University in Arequipa, Peru <p> <i>Marjorie Agueda Calcina Cateriano</i></p>		

17:00 - 18:00

Panel: Challenges in the Training of Engineers 5.0

Towards the training of engineers for industry 5.0

(Auditorio Lleras)

1. Ph.D. *Carlos Francisco Rodríguez*, Universidad de los Andes de Colombia
2. Ph.D. *Alvaro Orjuela Cañón*, IEEE Colombia Section Chair
3. Ph.D. *Edmundo Tovar*, IEEE Education Society
4. Ph.D. *Isabel Hilliger*, Pontificia Universidad Católica de Chile
5. Ph.D. *César Beltrán Castañón*, IEEE Peru Section Chair
6. Ph.D. *Sandro Paz Collado*, General coordinator of accreditation and continuous improvement of the Faculty of Sciences and Engineering of Pontificia Universidad Católica del Perú

Friday, October 4th

	Salon: RGD_106-7	Salon: RGD_112-13	Salon: RGD_110-11	
8:30 - 12:30	Registration of Participants and Delivery of Materials			
9:00 - 9:15	<p>Paper ID 3</p> <ul style="list-style-type: none"> Assessing soft skills development in informatics students through project-based learning and Agile frameworks <p> Vanessa Maribel Choque Soto</p>	<p>Visit</p> <p>Visit to the laboratories of the Faculty of Engineering Universidad de los Andes, de Colombia</p>	<p>Exhibition of Self-study</p>	
9:15 - 9:30	<p>Paper ID 4</p> <ul style="list-style-type: none"> The PBL Methodology in a hybrid class in an integrative Systems Engineering course <p> Isabel C. Barragan Arias</p>			
9:30 - 9:45	<p>Paper ID 5</p> <ul style="list-style-type: none"> CS2023 Curricula Guidelines and Computer Science Accreditation <p> Michael Oudshoorn</p>			
9:45 - 10:00	<p>Paper ID 8</p> <ul style="list-style-type: none"> Impact of ANEAES Accreditation on the Computer Engineering Program at Universidad Americana <p> José Luis Vázquez Noguera</p>			
10:00 - 10:15	<p>Paper ID 18</p> <ul style="list-style-type: none"> The Deployment of Virtualized Operating Systems to Reveal Network Vulnerabilities for Classroom Setting <p> Miguel Bustamante</p>			
10:15 - 10:30	<p>Paper ID 19</p> <ul style="list-style-type: none"> Cloud Computing: Exploring the Digital Frontier for the Academic Environment <p> Miguel Bustamante</p>			
10:30 - 10:45	<p>Paper ID 24</p> <ul style="list-style-type: none"> Automated Prototype for Demonstrating the Properties of Gases in Natural Science Laboratories <p> Neicer Campos Vásquez</p>			
10:45 - 11:00	<p>Paper ID 28</p> <ul style="list-style-type: none"> Implementation of a Curricular Management Support Tool for the Quality Systems of the Engineering Programs at Uniandes. <p> Camila Botero Saffon Cateriano</p>			
11:00 - 11:15	Coffe Break			
11:15 - 11:30	<p>Paper ID 29</p> <ul style="list-style-type: none"> Educational Software for Learning Load Profile in Residential Supplies <p> Joel Contreras Núñez</p>			
11:30 - 11:45	<p>Paper ID 43</p> <ul style="list-style-type: none"> Gamified and Artificial Intelligence-Assisted Knowledge Base in a Social Platform for Self-Learning in Higher Education <p> Jordán Darwin Blancas Sánchez</p>			
11:45 - 12:00	<p>Paper ID 51</p> <ul style="list-style-type: none"> AI Ethics in the Fields of Education and Research: A Systematic Literature Review <p> William Mauricio Rojas Contreras</p>			
12:00 - 13:00	<p>Keynote Lecture No. 3 Sample of Teaching Support Developments (Gloria Cortés, Carola Hernandez, Carlos F, Rodríguez) Development Group - Didacta and Faculty of Engineering at Universidad de los Andes, Colombia (Salon: RGD_106 - 7)</p>			
13:00 - 15:00	Free time for lunch			

Friday, October 4th

	Salon: RGD_106-7	Salon: RGD_112-13	Salon: RGD_110-11
15:00 - 15:15	<p>Paper ID 53</p> <ul style="list-style-type: none"> Intelligent computational architecture for improving the quality of higher education <p> Jorge Omar Portilla Jaimes</p>	<p>Workshop N°3 Quality measurements and performance evaluation of teamwork Ph.D. Carlos F. Rodríguez - Academic Vice Dean of the Faculty of Engineering in the University de los Andes, Colombia.</p>	<p>Exhibition of Self-study</p>
15:15 - 15:30	<p>Paper ID 56</p> <ul style="list-style-type: none"> Selection of the best AI educational tool applied to university-level teaching and learning process using the AHP Methodology <p> Antony De La Cruz Vasquez</p>		
15:30 - 15:45	<p>Paper ID 59</p> <ul style="list-style-type: none"> How to improve Graduates Attributes with Virtual Reality: A case of study in Industrial Engineering <p> Henry Gomez Urquizo</p>		
15:45 - 16:00	<p>Paper ID 66</p> <ul style="list-style-type: none"> Augmented reality to support the teaching-learning process in computer graphics <p> Liz Sofia Raymunda Pedro Huaman</p>		
16:00 - 16:15	<p>Paper ID 60</p> <ul style="list-style-type: none"> Comparative analysis of student desertion in Electronic Engineering at UPTC and UdeC between 2015 and 2018 <p> Ilber Adonayt Ruge Ruge</p>		
16:15 - 16:30	<p>Paper ID 12</p> <ul style="list-style-type: none"> BITA: The First Female Robotics Intercollegiate Championship to foster STEM attitudes and skills <p> Sandra Milena Merchán Rubiano</p>		
16:30 - 16:45	<p>Paper ID 42</p> <ul style="list-style-type: none"> Relation between learning styles and academic performance: a study in peruvian health students in the context of digital transformation <p> Miguel Mogollón Almidón</p>		
16:45 - 17:00	<p>Paper ID 49</p> <ul style="list-style-type: none"> Artificial Intelligence Model for the Improvement of the Quality of Education at the National University of Central Peru, Huancayo 2024 <p> Kevin Paul Taype Soriano</p>		
17:00 - 17:30	<p>Keynote Lecture No. 4 Trends in the comprehensive training of Engineers 5.0 Ph.D. Edmundo Tovar, IEEE Education Society (Auditorio Lleras)</p>		
17:30 - 18:00	<p>Closing of the ICACIT 2024 Symposium (Auditorio Lleras)</p>		

Self-Study Exhibition

Only at the Symposium will you have access to a room with self-study reports of programs accredited by ICACIT. The self-study reports chosen do not necessarily demonstrate full compliance with the ICACIT criteria. However, they fulfill the purpose of exemplifying how to prepare the self-study report.

Educational institutions have granted ICACIT permission to display the Self-Study Reports of some of their programs. In some of these documents, certain confidential information has been removed.

The room is located at:

Universidad de los Andes, Colombia (Cra. 1 #18a-12, La Candelaria, Bogotá, Colombia)

The room can be visited at the following times:

Thursday, October 3: 10:00 a.m. – 12:00 p.m. and 3:00 p.m. – 5:00 p.m.

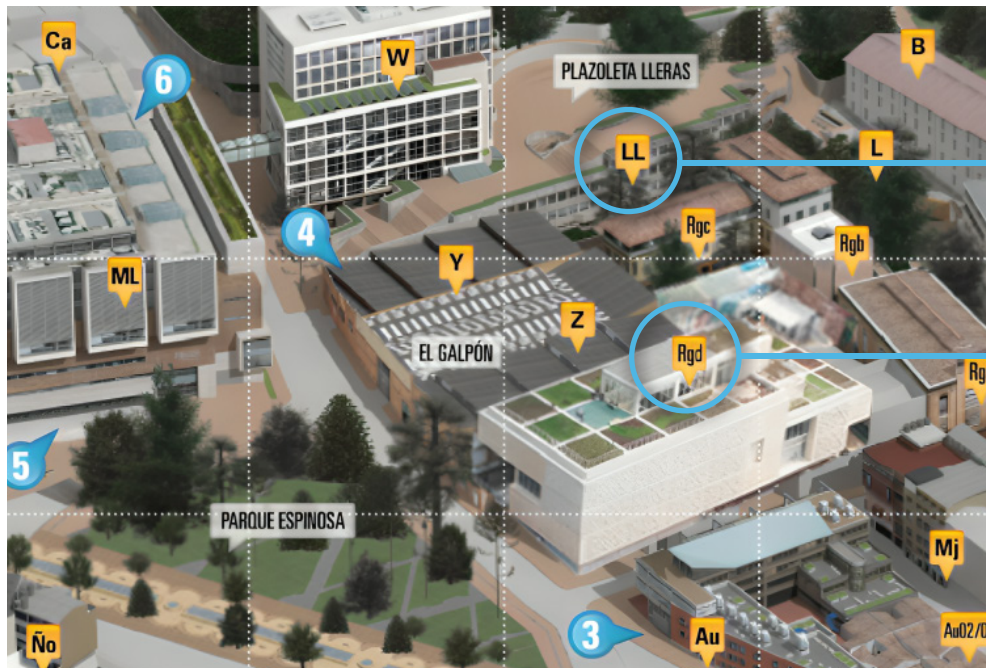
Friday, October 4: 09:00 a.m. – 12:00 p.m. and 3:00 p.m. – 5:00 p.m.

Important

- 1 Upon entering, you must hand over your PARTICIPANT CREDENTIAL to the person in charge of the room and leave your personal items in the area designated for this purpose.
- 2 You must ask the person in charge of the room for one of the available reports and go to the reading tables carrying only a notepad and a pen that will be given to you during admission.
- 3 All your electronic devices must have “silent” mode activated while you are in the room. To answer a call you must leave the room and return the report to the person in charge of the room.
- 4 Feel free to review the reports and take notes on your pad at the reading tables. Self-Study Reports should not be removed from the room for any reason.
- 5 Taking photographs or video recordings is NOT ALLOWED.
- 6 Any participant who violates these rules will be sanctioned with expulsion from all Symposium activities and will lose their right to a certificate of attendance.

ID	Institution	Campus	Program	Evaluation Cycle 2023
1		Huaraz	Ingeniería Agrícola	
2			Ingeniería Civil	
3			Ingeniería de Minas	
4			Ingeniería Sanitaria	
5		Lima	Ing. de Seguridad y Salud en el Trabajo	
6			Ingeniería Textil	
7		Lima	Ingeniería Electrónica	
8			Ingeniería Informática	
9		Lima	Ingeniería Industrial y Comercial	
10			Ing. de Tecnologías de Información y Sistemas	

University Campus Sketch



Opening and closing:
Lleras Auditorium

Sessions, Workshop and Self-study room Rooms:
RGD_106-7, RGD_110-11 and RGD_112-13

Address: Cra. 1 #18a-12, La Candelaria, Bogotá, Cundinamarca, Colombia

Google Map ([click here](#))



ICACIT

// Acreditadora de Valor internacional //

