



ESPE

UNIVERSIDAD DE LAS FUERZAS ARMADAS
INNOVACIÓN PARA LA EXCELENCIA

XXX

International Multidisciplinary Congress
on Science and Technology

CIT 2025

11 - 15 august

 Springer **Scopus[®]**

PROGRAM

OPENING SESSION

Tuesday, August 12

07:00 - 09:00

Auditorio del Centro de Investigaciones

Tuesday, August 12

Salón 2000



Departamento de
Ciencias Humanas
y Sociales

ACADEMIC KEYNOTE Chair: Roger Castro

09:00 - 10:00 **Jimmy Zambrano**
Educación efectiva: Perspectiva desde los enfoques cognitivos, el modelo 4C/ID y los mitos educativos

SESSION 1

10:00 - 10:30 EFL Postgraduate Students' Attitudes Toward Using ChatGPT in Research Writing
10:30 - 11:00 Academic Procrastination and Subjective Well-Being in University Students

WORKSHOP **Sergio Castillo (Laboratorio G406)**
11:00 - 12:00 Uso de Jamovi en diseños cuasiexperimentales para investigación educativa

ROUND TABLE Chairs: Roger Castro y Carolina Larrea

11:30 - 13:30 **Roberto Santamaría, Lester Cabrera, Katherine Herrera y Enrique Morales**
Los desafíos de la educación en el Ecuador para fomentar el civismo, valores e identidad nacional, en el contexto del conflicto armado interno

12:00 - 13:00 LUNCH

SESSION 2

14:00 - 14:30 Postural variation in resting heart rate in military athletes
14:30 - 15:00 Designing of a strategy to improve citizen security: SMART District
15:00 - 15:30 AI as a Planning Partner: Teachers' Experiences and Challenges in AI-Assisted Lesson Design

15:30 - 16:00 COFFEE BREAK

WORKSHOP **José Lema (Laboratorio G406)**
16:00 - 17:00 Machine Learning aplicado al análisis de datos en Ciencias Sociales

SESSION 3

16:00 - 16:30 Portfolio assessment strategy: A case study to improve writing skill in an EFL teaching-learning context
16:30 - 17:00 Pictograms and language development in four-year-old children

Auditorio Bloque A



Departamento de
Ciencias Económicas,
Administrativas y de Comercio

SESSION 4

09:00 - 09:30 Human capital and internationalization of the university
09:30 - 10:00 Cultural Profiles and Organizational Dynamics in eSports Teams: Evidence from the Latin America North Region
10:00 - 10:30 The Link Between Emotional Intelligence and Job Performance of Employees at Konecta Perú, Lima Headquarters, 2025
10:30 - 11:00 Consumer Behavior in Health wearables technologies: A Bibliometric Approach

ACADEMIC KEYNOTE Chair: Maribel Maya

11:00 - 12:00 **Marta Lucía Tostes - Perú**
Tendencias en investigación en Ciencias de la Gestión

12:00 - 13:00 LUNCH

ACADEMIC KEYNOTE Chairs: Pablo Ochoa y Josué Puma

13:00 - 14:00 **Sandra Galarza**
Dominios de investigación en el Doctorado en Administración

SESSION 5

14:00 - 14:30 Leadership practice in high-level sports training: predominant styles
14:30 - 15:00 Multi-Criteria Comparison of Supervised Models for Bank Customer Churn Prediction: A Performance, Efficiency, and Explainability-Based Approach
15:00 - 15:30 Impact of Digital Marketing on Consumer Buying Behaviour: Analysis of Key Factors in the Garment Manufacturing Sector (Except Leather) in the Tumbaco Zonal Administration, October 2024 - March 2025

15:30 - 16:00 COFFEE BREAK

WORKSHOP **Marta Lucía Tostes - Perú**
16:00 - 18:00 Gestión de Proyectos de I+D+i

Tuesday, August 12

Aula Magna Departamento de Ciencias Exactas

ACADEMIC KEYNOTE

Chairs: Juan Carlos Sarango, Jacobo Vásquez

09:00 - 10:00

Sergio Castillo
Métodos no paramétricos de inferencias en procesos geoestadísticos

SESSION 6

10:00 - 10:30

Urban Crime Patterns and Inequality: A Spatio-Statistical Approach Using KDE and Gini Index

10:30 - 11:00

Estimating Poverty in Ecuador using the Small Area Methodology

WORKSHOP
11:00 - 12:00

Livino Armijos Toro
Nuevas contribuciones al estudio y cálculo de índices de poder para juegos de mayoría ponderada

12:00 - 13:00 LUNCH

ACADEMIC KEYNOTE

Chairs: Felipe Briones y Vicente García

13:00 - 14:00

Diego Ñauñay
Controlador predictivo generalizado aplicado a inversores monofásicos en redes aisladas

SESSION 7

14:00 - 14:30

Scalable Network Flow Optimization for Natural Hazards Emergency Evacuation

14:30 - 15:00

Evaluation of the Performance of Neural Networks in Predicting Solar Radiation (GHI) in Locations in the Northern Sierra of Ecuador

15:00 - 15:30

Computational Chemical Comparison of the Potential Dual Effect of Antiretroviral Compounds vs. FXa on the Human Coagulation Cascade

15:30 - 16:00 COFFEE BREAK

SESSION 8

16:00 - 16:30

Numerical Evaluation of High-Order Iterative Methods in Simplified Turbulence Models for Training Data Generation in Neural Networks

WORKSHOP
17:00 - 18:00

Santiago Quinga y Nury Ortiz
La magia de una EDP. Cuando las Finanzas se vuelven matemáticas

Auditorio Posgrados Departamento de Eléctrica, Electrónica y Telecomunicaciones

ACADEMIC KEYNOTE

Chair: Daniel Altamirano

09:00 - 10:00

Ashutosh Dutta - EE.UU.
5G Security and AI/ML – Opportunities and Challenges

SESSION 9

10:00 - 10:30

Implementation of maximum power tracking algorithms and battery charger on hardware-in-the-loop platform

10:30 - 11:00

Design and construction of an information system for a tandem bicycle aimed at people with visual impairments

WORKSHOP
11:00 - 12:00

Ashutosh Dutta - EE.UU.
IEEE 5G/6G Testbed

12:00 - 13:00 LUNCH

SESSION 10

13:00 - 13:30

Vertical Photovoltaic Systems Configurations for Energy Production in Limited Spaces

13:30 - 14:00

Rehabilitation of the SimMan simulator through reconstruction of skins and electro pneumatic accessories

14:00 - 14:30

Low-Cost Mechatronic System for Obstetric Education Based on Childbirth Simulation

14:30 - 15:00

Low-cost Edge AI device for autonomous health assessment in rural areas

15:00 - 15:30

Design and Construction of an Autonomous Navigation Robot Oriented Toward Visually Impaired People

Tuesday, August 12

Auditorio Biblioteca



Departamento de
Ciencias de la Tierra
y la Construcción

ACADEMIC KEYNOTE Chair: Esthela Salazar

09:00 - 10:00 **Alex Paulsen - Chile**
Urbanismos del siglo XXI: tendencias, fronteras y proyecciones Globales

SESSION 11

10:00 - 10:30 Integrating Vibration Tests and Fiber-Based Modeling for Seismic Performance Assessment
10:30 - 11:00 Seismic response and material cost assessments of braced and unbraced low-rise buildings with steel and concrete filled steel tube columns

WORKSHOP **Alex Paulsen - Chile (Aula G300)**
11:00 - 12:00 Bibliometrías críticas para la investigación del urbanismo

12:00 - 13:00 LUNCH

ACADEMIC KEYNOTE Chair: Ana Gabriela Haro

13:00 - 14:00 **Emrah Tasdemir - Turquía**
Lessons Learned from the 6 February 2023 Kahramanmaras Earthquake: Nature Against Engineering!

SESSION 12

14:00 - 14:30 Integration of IoT Technology for Real-Time Monitoring of Water Level in Cisterns Based on Historical Data: Case Study of the Universidad de las Fuerzas Armadas ESPE
14:30 - 15:00 Flood risk assessment of the urban area of Monteria, Cordoba, Colombia, using space-based hydrological and hydrodynamic models
15:00 - 15:30 Review of the metal recovery process (Gold and Copper) from waste electrical and electronic equipment

15:30 - 16:00 COFFEE BREAK

SESSION 13

16:00 - 16:30 The Importance of Urban Green Spaces in Sustainable Urban Planning
16:30 - 17:00 Satellite-Based Climate Data for the San Pedro River Basin, Puerto Libertador, Colombia
17:00 - 17:30 Analysis of the behavior of HSS column connections and I-beam using the BFP method with internal continuity plate compared to prequalified BFP connections in moment frames under seismic.
17:30 - 18:00 Physicochemical and Microbiological Assessment of Drinking Water Quality in Rural Communities of Puerto Limón, Ecuador. Statistical approach

Wednesday, August 13

Salón 2000



Departamento de
Ciencias Humanas
y Sociales

ACADEMIC KEYNOTE Chairs: Gabriela Rivas y Roger Castro

08:00 - 09:00 **Henry López**
Inteligencia Artificial Generativa en Educación: Desafíos y Oportunidades

SESSION 14

09:00 - 09:30 Integrating Mindfulness Strategies in the EFL Classroom: Enhancing Language Learning among University Students
09:30 - 10:00 Assessment of Psychosocial Risks and Improvement Analysis in a Manufacturing Company in Ecuador
10:00 - 10:30 Perspectives for Nanotechnology Engineering Education in Latin America

10:30 - 11:00 COFFEE BREAK

WORKSHOP **Samir Valencia (Laboratorio G406)**
11:00 - 12:00 Pedagogía Waldorf con cerámica

12:00 - 13:00 LUNCH

DIALOGIC ENCOUNTER Chair: Mgtr. Gabriela Rivas

13:00 - 14:30 **Katic García, Estelina Quinatoa, Ana Tasiguano y Florencio Delgado**
Prácticas educativas en contextos rurales

SESSION 15

14:30 - 15:00 Ethnographic approach to cultural and identity transmission in Guangopolo
15:00 - 15:30 Dramatic Play in Teacher Education: A Correlational Study on Knowledge for Child Development
15:30 - 16:00 Pragmatics of Political participation in time of elections in university students: a study from the sociology of Boltanski and Thévenot
16:00 - 16:30 Peripheral device for marginalized bodies
16:30 - 17:00 Are Public Service Motivation and Social Value Orientation related to Bribery? Evidence from a developing country

Wednesday, August 13

Auditorio Bloque A



Departamento de
Ciencias de la Vida
y de la Agricultura

ACADEMIC KEYNOTE Chair: Claudia Segovia

08:00 - 09:00 **Sofía Cabrera**
Como hacer divulgación científica en el Ecuador y no morir en el intento

SESSION 16

09:00 - 09:30 Analysis of age to first calving in Ecuadorian Charolais cattle using linear and survival models

09:30 - 10:00 Sustainable Fog Water Harvesting in the Ecuadorian Andes: A Comparative Study of Synthetic and Organic Fiber Collectors

10:00 - 10:30 Removal of methylene blue and crystal violet by the microalgae *Chlorella sorokiniana* and *Arthrospira platensis* at the laboratory level

10:30 - 11:00 COFFEE BREAK

ACADEMIC KEYNOTE Chair: Claudia Segovia

11:00 - 12:00 **Simón Guerrero - Chile**
Modelos alternativos a animales para evaluación de toxicidad en xenobióticos

12:00 - 13:00 LUNCH

SESSION 17

13:00 - 13:30 Effect of parental and non-parental administration of amino acids on weight gain in weaned piglets

13:30 - 14:00 Microscopic Warfare: Evidence of Giant Virus-Mediated Control of *Acanthamoeba* in Ecuadorian Lagoons

14:00 - 14:30 Obtaining cellulose, hemicellulose and lignin from tomato (*Solanum lycopersicum*) plant residues, using an experimental methodology, for the development of biofilms

14:30 - 15:00 Synthesis and characterization of CuO nanoparticles with extracts plants

15:00 - 15:30 Effect of carbohydrate/protein/mineral ratio on microstructural properties of membrane fouling

15:30 - 16:00 Systematic review on the presence of microplastics in fishery products for human consumption and their health risks

16:00 - 16:30 Exploring the Use of Chitosan-Based Gels and LED Light in Sustainable Crop Development

16:30 - 17:00 Black Corn (*Zea mays* L.) Flour for Sustainable and Degradable Bioplastics Development

17:00 - 17:30 Variability in daily rainfall pH in Southern Quito: acidic and basic events related to local pollution and rainfall intensity (2022–2023)

Aula Magna



Departamento de
Ciencias de la Energía
y Mecánica

ACADEMIC KEYNOTE Chair: Héctor Calvopiña

08:00 - 09:00 **Víctor Hugo Hidalgo**
Modelos metaheurísticos aplicados a la turbomaquinaria

SESSION 18

09:00 - 09:30 Labeling 4.0: An automated system with IoT connectivity for remote industrial monitoring applied to Mechatronics Engineering education

09:30 - 10:00 Prediction of the Higher Heating Value of microalgal biomass using artificial neural networks

10:00 - 10:30 Rapid hydrothermal synthesis and photocatalytic application of ferrous oxalate dihydrate from low-cost Ecuadorian black sands

10:30 - 11:00 COFFEE BREAK

WORKSHOP **Francisco Montero**
11:00 - 12:00 Energía sin crisis

12:00 - 13:00 LUNCH

ACADEMIC KEYNOTE Chair: Alejandra Albán

13:00 - 14:00 **Frank Alexis**
Más allá de lo Rígido: Innovación en Sensores Flexibles para la Adquisición de Datos en Tiempo Real

SESSION 19

14:00 - 14:30 Analysis of the Impact of Air Conditioning on Power Loss and Fuel Consumption in High Altitude Locations

14:30 - 15:00 Influence of Engine Position on Resistance in Long-Distance Bus Rollover

15:00 - 15:30 Detectability of Discontinuities in Welds Using Alternative Cleaning Agents in Type II Dye-Penetrant Testing

15:30 - 16:00 Dynamic behavior of the suspension system of a formula student vehicle

16:00 - 16:30 Numerical analysis of a CFD-based geometrical optimization of a cyclone separator using the $k-\omega$ SST turbulence model for enhanced particle separation efficiency

16:30 - 17:00 Mechanical Properties of Epoxy Hybrid Composites with Glass and Natural Fibers

17:00 - 17:30 Tempering temperature: Influence on mechanical behavior and microstructure and of K100 (AISI D3) steel

WORKSHOP **Christian Narvaez**
17:30 - 18:00 Fundamentos de la electrodinámica

Wednesday, August 13

Auditorio Posgrados



Departamento de
Eléctrica, Electrónica
y Telecomunicaciones

ACADEMIC KEYNOTE Chair: Alejandro Chacón

08:00 - 09:00

Ing. Marco Maldonado
Industria Conectada

SESSION 20

09:00 - 09:30

Resilience Assessment of Power Systems Under
Earthquake-Induced Cascading Failures

09:30 - 10:00

Energy management system based on fuzzy logic control
for multiple grid-connected residential microgrids with
integrated generation and demand forecasting

10:00 - 10:30

Development of a Controlled Robotic Prototype that
Mimics Basic Emotions

10:30 - 11:00 COFFEE BREAK

WORKSHOP
11:00 - 12:00

Esteban de la Torre
IoT Edge

12:00 - 13:00 LUNCH

ACADEMIC KEYNOTE Chair: Wilbert Aguilar

13:00 - 14:00

Luis Gustavo Rentería
Hacer que falle... a tiempo: Cuando el calor, el frío y la
energía extrema ponen a prueba la electrónica del vehículo

SESSION 21

14:00 - 14:30

Development of an application for the Alexa platform to
group routines

14:30 - 15:00

Prototype of CanSat implementing cFS flight software
framework for educational purposes

15:00 - 15:30

Detection of Illicit Activity Hotspots via Deep Learning and
Multispectral Satellite Imagery

15:30 - 16:00

Spectral Estimation for Hydrogen Line Detection in the
Milky Way

Auditorio Biblioteca



Departamento de
Ciencias de
la Computación

SESSION 22

08:00 - 08:30

AI-Driven IP Address Conflict Prevention: A Predictive and
Heuristic-Based VRF Framework

08:30 - 09:00

University Dropout: An Approach to the Ecuadorian Reality

09:00 - 09:30

Multiverse-Inspired Metaverse: Ontologies, Virtual Worlds,
and Experimental Frameworks for Socioeconomic
Simulation

09:30 - 10:00

Blockchain based Student Credential Solution

10:00 - 10:30

LoRaWAN-based model for communication, location, and
monitoring of individuals during adverse events in
adventure tourism areas

10:30 - 11:00 COFFEE BREAK

ACADEMIC KEYNOTE Chair: Freddy Tapia

11:00 - 12:00

Luis Ramirez - Chile
Digital Product Lifecycle Journey

12:00 - 13:00 LUNCH

ACADEMIC KEYNOTE Chair: Freddy Tapia

13:00 - 14:00

Mo Sha - EE.UU.
Internet of Things Framework for Smart Energy in Buildings:
Designs, Prototype, and Experiments

SESSION 23

14:00 - 14:30

Automated Real Estate Valuation Using Data Mining:
Application to Urban Areas of the Metropolitan District of
Quito

14:30 - 15:00

Minimalism vs. Robustness: Measuring Network Service
Performance in Virtual Machines: A Linux Comparison

15:00 - 15:30

An Ensemble Learning Approach for Breast Cancer
Prediction Using Protein Biomarkers

15:30 - 16:00

Sentiment Analysis on Public Healthcare Services Using
LSTM Networks: A Case Study of Manabí, Ecuador

Thursday, August 14

Auditorio Biblioteca



Departamento de Ciencias de la Computación

SESSION 24

08:00 - 08:30	Design of an Underwater Obstacle Detection System Using Stereo Vision and GPU Parallel Processing
08:30 - 09:00	Systematic Review of IoT Serverless Architectures: A Performance Comparison of ESP32-Raspberry Pi-AWS Solutions
09:00 - 09:30	Modern Enterprise Connectivity: Evaluating SD-WAN and Direct Internet Access (DIA) for Performance and Reliability
09:30 - 10:00	On-device Machine Learning and Artificial Intelligence as strategies for preventing mobile device theft: A Systematic Study
10:00 - 10:30	Development of an HTML based website to generate Braille text and images for automatic paper embossing

10:30 - 11:00 COFFEE BREAK

WORKSHOP 11:00 - 12:00	Mo Sha - EE.UU. Designing smart sensing systems for Internet of Things
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12:00 - 13:00 LUNCH

ACADEMIC KEYNOTE Chair: Freddy Tapia

13:30 - 15:00	Mo Sha - EE.UU. Dependable Wireless Networking for Industrial Internet of Things
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Hall Bloques A y B EMPRESAS

08:00 - 09:00	WATERS / MERCK	14:00 - 15:00	JEOL e INSTRULABQ Cía. Ltda.
09:00 - 10:00	3A COMPOSITES	15:00 - 16:00	RECOR
10:00 - 11:00	INSELEC	16:00 - 17:00	INEN / EPMAPS
11:00 - 12:00	HOSPITAL METROPOLITANO	17:00 - 18:00	Foro WATERS / MERCK INEN UPS (POSGRADOS) ESPE
12:00 - 13:00	PLAY & LEARNING		

Salón 2000



Departamento de Ciencias Económicas, Administrativas y de Comercio

SESSION 25

08:00 - 08:30	Authority or inspiration? Military leadership analysis and its effect on organizational climate
08:30 - 09:00	Factorial exploration and convergent validation of an instrument to measure cooperative social responsibility in Ecuador
09:00 - 09:30	Frequency of purchase mediated by seller trust. Key factors in e-commerce
09:30 - 10:00	Vlogs, e-WOM, and Perceived Destination Image: Digital Factors Influencing Tourist Ease of Travel
10:00 - 10:30	Relationship between innovation and business performance in SMEs: an empirical study

10:30 - 11:00 COFFEE BREAK

ACADEMIC KEYNOTE Chairs: Catalina Verdugo y Patricio Gaibor

11:00 - 12:00	Dra. Nora Liliana Gorrochategui (Argentina) Construyendo una Gobernanza Sostenible
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12:00 - 13:00 LUNCH

SESSION 26

13:00 - 13:30	The Theory of Social Exchange Applied to the Evaluation of Organizational Climate and Work Performance within the Military Hierarchical Structure, an Analysis of the Aviation Troops of the Ecuadorian Army
13:30 - 14:00	Oncology technology provision and cancer mortality in Ecuador: municipal evidence with analysis of operational complementarity and economic inequality
14:00 - 14:30	The Double Side of IA: How Automated Decision Making Challenges Confidence and Increases Anxiety
14:30 - 15:00	Between command and identity: The contribution of organizational personality to hierarchical culture in military institutions of Ecuador

WORKSHOP 15:00 - 17:00	Nora Liliana Gorrochategui - Argentina Gobernanza sostenible como ventaja competitiva
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Thursday, August 14

Auditorio Bloque A



Departamento de
Ciencias de la Vida
y de la Agricultura

SESSION 27

- 08:00 - 08:30 Remediation of fluoranthene contaminated soils with the application of Fe(0) nanoparticles synthesized with drago's blood (*Croton lechleri*) and subsequent biostimulation
- 08:30 - 09:00 Phytoremediation of drug mixtures using *Eichhornia crassipes*: A sustainable alternative for the removal of pharmaceutical drugs from wastewater
- 09:00 - 09:30 Impact of cutting time on the nutritional quality of Ryegrass (*Lolium perenne*) var Amazon silage treated with lactic acid bacteria
- 09:30 - 10:00 Interview with the vampire plant: Interactions of *Cuscuta* spp. and their potential as a biotechnological tool
- 10:00 - 10:30 Molecular identification of Ecuadorian species of the Araceae family with commercial interest, using the BARCODE system

10:30 - 11:00 COFFEE BREAK

SESSION 28

- 11:00 - 11:30 Urban Agriculture for Climate Resilience and Sustainability in Quito: A MESMIS-Based Evaluation
- 11:30 - 12:00 Innovative Automated Irrigation for Sustainable Agriculture: A Smart Approach to Water Management in Greenhouse Systems

12:00 - 13:00 LUNCH

- WORKSHOP**
13:00 - 17:00 **Simón Guerrero - Chile (Lab. Inv. Biotecnológica)**
Artemia: Modelo alternativo a animales para evaluación de toxicidad en xenobióticos

Hall Bloques G y H

08:00 - 18:00 EXPOSICIÓN DE PÓSTERS

Aula Magna



Departamento de
Ciencias Médicas

ACADEMIC KEYNOTE Chair: Alicia Zavala Calahorrano

- 08:00 - 09:00 **Dr. Marcelo Grijalva Ph.D**
New therapeutic strategies for arteriosclerosis, based on nanomedicine

SESSION 29

- 09:00 - 09:30 Basic Reproduction Number (R_0) in Epidemiological Analysis: An Artificial Intelligence Approach to Assess BCG Vaccination Impact in Ecuador
- 09:30 - 10:00 Green synthesis of MoS₂/rGO nanocomposite: Application on the photocatalytic degradation of carbamazepine and diclofenac
- 10:00 - 10:30 Accessibility to Healthcare for Deaf Individuals in Latin America: A Systematic Review

10:30 - 11:00 COFFEE BREAK

SESSION 30

- 11:00 - 11:30 A systematic review of the uses of probiotics in a variety of diseases
- 11:30 - 12:00 Occupational Health and the lighting risk factor

12:00 - 13:00 LUNCH

SESSION 31

- 13:00 - 13:30 Creation of a Tumor Diagnostic Tool Using Machine Learning in Python
- 13:30 - 14:00 The Faces of Difficult-to-Diagnose Cutaneous Lymphomas
- 14:00 - 14:30 Analysis of Quality of Life in Patients with Rheumatoid Arthritis Treated with Biologic Therapy: A Systematic Review
- 14:30 - 15:00 Modular Architecture for Inventory Management and Predictive Maintenance in Laboratory Equipment
- 15:00 - 15:30 Associated risk factors for cervical cancer in women from urban-marginal neighborhoods of Tungurahua/Ecuador

Friday, August 15

Salón 2000

Departamento de Ciencias Humanas y Sociales

ACADEMIC KEYNOTE
Chair: Roger Castro y Johanna Guijarro

08:00 - 09:00

Jefferson Moreno

Integración de herramientas de inteligencia artificial en el diseño metodológico y la revisión de literatura científica

SESSION 32

09:00 - 09:30

Digital Competencies and Artificial Intelligence in Peruvian Primary Education

09:30 - 10:30

Teachers' Perceptions of Feedback in Formative Assessment: A Qualitative Approach

Auditorio Bloque A

Departamento de Seguridad y Defensa

ACADEMIC KEYNOTE
Chair: Manolo Cruz

08:00 - 08:30

Norberto Emmerich

Situación geopolítica contemporánea

SESSION 33

08:30 - 09:00

Technology, crisis, and sovereignty: new frontiers for a multidimensional defense

09:00 - 09:30

Evaluating LLM Adaptation Techniques for Cybersecurity Vulnerability Detection: A Comparative Review of Retrieval-Augmented Generation and Fine-Tuning

09:30 - 10:00

Impact of dual training on the professional performance of Ecuadorian soldiers: a comparative analysis of the two training methods

10:00 - 10:30

Model for the Determination of Capabilities in Security and Defense: A Proposal for Strategic Planning, Analyzed from the Ecuadorian Requirement

Auditorio Investigación

Departamento de Ciencias de la Energía y Mecánica

ACADEMIC KEYNOTE
Chair: Francisco Montero

08:00 - 09:00

Marcel Zylberberg

Fibras balísticas: Estudio comparativo de rendimiento en placas de protección.

ACADEMIC KEYNOTE
Chair: Francisco Montero

09:00 - 10:00

Javier Subía

Perspectivas de la Minería y su desarrollo en el Ecuador

WORKSHOP
10:00 - 10:30

Carlos Naranjo

Control de calidad en la fabricación

Auditorio Biblioteca

Departamento de Ciencias de la Computación

SESSION 34

08:00 - 08:30

Strengthening Healthcare Cybersecurity: Systematic Review of Awareness and Training approaches

08:30 - 09:00

Empowering Credit Unions with Explainable AI: A Hierarchical Loan Approval SVM Model

09:00 - 09:30

An implementation of an automatic system for the innovation and management of a cybersecurity laboratory for concurrent users

09:30 - 10:00

Towards a Dashboard for E-commerce Analytics in Wix-based Websites

10:00 - 10:30

Risk Pattern Analysis and Prediction of Hypertension in Ecuadorian University Students Using Machine Learning

ACADEMIC KEYNOTE
Chair: Freddy Tapia

14:00 - 15:00

Luis Ramírez - Chile

Digital Transformation with the scaled agile framework

WORKSHOP
15:00 - 16:00

Luis Ramírez - Chile

Agility in Processes and Projects Product Owner

11:00 - 13:00 EVENTO DE CLAUSURA CIT 2025



ESPE

UNIVERSIDAD DE LAS FUERZAS ARMADAS

INNOVACIÓN PARA LA EXCELENCIA



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