



ICTIAIR 2025 PROGRAM

International Virtual Conference - March 19-21, 2025.

All times are in UTC-5 (Ecuador Time)





Universidad deOUCLMCastilla-La Mancha







DAY 1: WEDNESDAY, MARCH 19, 2025 - ENERGY AND ARTIFICIAL INTELLIGENCE

Virtual Meeting Room: meet.google.com/izv-svdz-ttz

08:00 - 08:05 08:05 - 08:50 08:50 - 08:55 SESSION 1 Electrical Energy Systems	Opening Ceremony Keynote Lecture 1: "Industry 5.0: Accelerating the SDGs through Technological Innovation and Collaboration" Brief Technical Break CHAIR Descer Cletet	Organizing Committee Ana María Osorio Flores
08:50 - 08:55 SESSION 1 Electrical Energy Systems	and Collaboration" Brief Technical Break CHAIR	Ana María Osorio Flores
SESSION 1 Electrical Energy Systems	CHAIR	
Electrical Energy Systems		
	Deger Cletet	
08:55 - 09:15	Roger Clotet	
	ID 1: Dynamic VBR model of single-phase induction machines using ATPDRAW	Jose Aller
09:15 - 09:35	ID 17: Transformer framework for the fault detection of a reciprocating compressor	Diego Cabrera
09:35 - 09:55	ID 18: Analysis of harmonic mitigation in a photovoltaic energy microgrid for supply to an electronic load	Edgar Salazar
09:55 - 10:15	ID 23: Design of a backup system powered by renewable energy sources for the operation of a textile industry in Quito	Andres Rubio Proaño
10:15 - 10:20	Brief Technical Break	
10:20 - 10:40	ID 20: Neural networks in disinformation detection in Spanish: A comparative analysis between BERT and BETO ID 29: Detection and adaptation to concept evolution in data streams: An integral	Marco Castelo
10:40 - 11:00	framework	Mario Pena
11:00 - 11:20	ID 44: A review on relevant failure modes in electric machines	Mariela Cerrada
11:20 - 11:40	ID 4: Evaluating information security in academic management systems under the ISO/IEC 27001 standard	Eliana Ibarra Alcivar
11:40 - 11:45	Brief Technical Break	
SESSION 3 Advanced Learning and Co	emputing Techniques Mariela Cerrada	
11:45 - 12:05	ID 7: Designing a High School computational thinking test using evidence-centered design	Amadeo Gómez
12:05 - 12:25	ID 8: On the use of AI algorithms applied to strong motion records for the prediction of earthquake fault mechanisms	Diego Benítez
12:25 - 12:45	ID 9: Towards the early detection of speech disorders in children applying manifold learning techniques: Preliminary results	Malena Loza
12:45 - 12:50	Closing Remarks - Day 1	





DAY 2: THRUSDAY, MARCH 20, 2025 - NETWORKS AND INFORMATION SYSTEMS

Virtual Meeting Room: meet.google.com/wma-jxtz-pyi

TIME	ACTIVITY	PRESENTER												
08:00 - 08:05	Welcome and Daily Announcements	Organizing Committee												
08:05 - 08:50	Keynote Lecture 2: "Map Reduce and Spark: Examples of Big Data Applications"	Yudith Cardinale												
08:50 - 08:55	8:50 - 08:55 Brief Technical Break													
SESSION 4 Network Systems and M	Ianagement Roger Clotet													
08:55 - 09:15	ID 33: SMART-MANAGER: Multi-user, multi-tenant informatic platform for remote management of internet network terminal devices base on TR-069 protocol	Erwin Sacoto												
09:15 - 09:35	ID 34: GIGABIT AMERICAN ADVANCED NETWORKS: Emulation of the 2024 backbone topology under IPv6	Jose Ignacio Castillo												
09:35 - 09:55	ID 31: Backlog management: Analyzing user-reported and technically identified incidences in medical equipment maintenance – A case study	Sebastián Bastidas												
09:55 - 10:15	ID 32: Level control simulation and fault prediction system using machine learning	Thamara Villegas												
10:15 - 10:20	Brief Technical Break													
SESSION 5 Education Technology o	Ind System Design Mónica Huerta													
10:20 - 10:40	ID 11: Model-Free fuzzy controller for time delay systems	Oscar Camacho												
10:40 - 11:00	ID 13: K9-Buddy: Platform for robotics education and competencies	Francisco Yumbla												
11:00 - 11:20	ID 15: Performance of digital skills from student to school teacher in Ecuador and Peru according to the adaptation of the Charlotte Danielson model	Rously Atencio												

SESSION 6	dvanced Networking Mariela Cerrada	
omputer Vision and Ac 11:25 - 11:45	ID 22: Automated segmentation and classification of meningiomas using AI techniques	Erick Lamilla Rubio
11:45-12:05	ID 30: Proposed architecture for a patient management and classification system in the triage process	David Rivas
12:05- 12:25	ID 37: Reverse engineering analysis applied to the upgrade of a WAN in a medical supplies company	José Ignacio Castillo
12:25-12:45	ID 35:Building management system control for home automation with HDL Buspro	David Rivas
12:45- 12:50	Closing Remarks - Day 2	Organizing Committee





DAY 3: FRIDAY, MARCH 21 2025 - SUSTAINABILITY AND SPECIALIZED APPLICATIONS

Virtual Meeting Room: meet.google.com/aoy-ifzp-vao

TIME	ACTIVITY	PRESENTER
08:00 - 08:05	Welcome and Daily Announcements	Organizing Committee
08:05 - 08:50	<i>Keynote Lecture 3:</i> "Bridging the Gap in Riverine GHG Emissions: Standardizing Cost-Effective Monitoring for Developing Countries."	Rubén Jerves Cobo
08:50 - 08:55	Brief Technical Break	
SESSION 7	CHAIR	
Applications and Innov	vation José Ignacio Castillo Velazquez	
08:55 - 09:15	ID 26: Achachay App: A community-driven innovation for flood data collection in urban and rural areas.	Ariana Jiménez
09:15 - 09:35	ID 25: Systematic review of a voice-to-Ecuadorian sign language translator	Fernando Viñanzaca
09:35 - 09:55	ID 24: Gear fault severity classification using acoustic emission peaks and Poincaré plots	Rubén Medina
09:55 - 10:15	ID 28: AI-based predictive and detection models for avian pox caused by avipoxvirus SPP in the Galápagos Islands	Thamara Villegas
10:15 - 10:20	Brief Technical Break	
SESSION 8	CHAIR	
STEM Education and Sus	tainable Solutions René Sánchez	
10:20 - 10:40	ID 5: Advancing STEM pedagogy through gamified 3D-printed educational prototypes: A PODS-driven framework for bridging theory and practice	Erick Lamilla Rubio
10:40 - 11:00	ID 19: Storytelling and STEM: A scoping review	Ronny Cabrera

							ID 36: White balance adjustment in hyperspectral images through statistical analysis												D	avi	d F	Rivo	as																																	
							Keynote Lecture 4: "Application of machine learning models to time series for predicting building energy consumption"													Julio Barzola Monteses																																				
		-	1	2:0	5-	12:1	5		-			A	wa	ırds	s a	nd	Re););	gı	nit	ior	C	10	sir	g	Се	re	m	on	y																	Sc	ier	ntií	fic	Со	mn	nitt	tee		
																																					1																			
																									÷.,		-0																													
																۰.				1				•				U	niv	er	sid	ad	de				Л		Ļ	Jņi	/ers	sida	d													
														J	U		inc	JE	n	uf	1			0.	ดูบ	CL	.м	Ca	ast	tilla	a-L	a M	/lar	nch	na		VI	u		nte	rna	cior ncia	nal													
														4				Nesea	i ch dr	oup				1										0					C	ie v	ale	nera	a													