PROGRAMME

The 2026 Multidisciplinary International Conference of Research Applied to Defense and Security (MICRADS'26)

Guayaquil, Ecuador

6-7 August 2026

Time Zone: UTC/GMT-5:00, Ecuador Time

August 6	
13:00 – 14:00	**Reception / Check-In**
14:00 – 15:00	**S1- Session** 1 **- Opening and Keynote Session | Room 1** **Chair:** Gloria Maritza Valencia Vivas, ESMENA, Ecuador
	CALM Hugo Armijos, Director Nacional de los Espacios Acuáticos (DIRNEA), Ecuador. **CPNV-EMC Rómulo Donoso Cabezas**, Director de la Escuela de la Marina Mercante Nacional (ESMENA), Ecuador **Álvaro Rocha**, Honorary Chair, Lusófona University, Portugal. **Ashok Vaseashta,** Keynote Speaker, Professor, International Clean Water Institute, USA. Topic: "Augmented Perception as the Future of Defense and Security".
15:00 – 17:00	**S2 - Session 2 (In Person) | Room 1** ***Chair***: Cesar Gabriel Cedeño
	202 - Artificial Intelligence and Student Affairs in African Higher Education: Ethical Opportunities, Risks, and Practice-Relevant Implications, Ramadile Moletsane **203** - A Next-Generation Transformer-BiLSTM Framework for Safe Online Communities through Hate Speech Detection, Ashok Vaseashta **205** - UN Peacekeeping Training Through the Eyes of Ecuadorian Military Officers, Sandra Dennis **212** - Enabling Leaders: Organizational Culture, Combat Leadership, and Military Effectiveness, Cesar Gabriel Cedeño **214** - Cyber Risk Governance in Complex Digital Environments: A Resilience-Based Approach for Academic and Critical Infrastructures, Leonardo Souza **200** - Military Applications: Enhancing Operational Readiness, Medical Decision-Making, and Force Protection, Ramadile Moletsane
	S3 - Session 3 (Online) | Room 2 **Link**: https://shorturl.at/DEqqM ***Chair***: Mauro Ocaña
	269 - AI²GV - Aplicação de Inteligência Analítica na Gestão de Vulnerabilidades: Uma Abordagem Baseada em Dados com OpenVAS no Contexto da PGFN, Fabio Lucio Lopes de Mendonca **209** - Conceptualizing Weaponized Economics João Reis **210** - Defense Sector Reform: From Decision Support Systems to Data-Driven Artificial Intelligence, João Reis **221** - Arquitetura Integrada de Normas e Frameworks de Desenvolvimento de Software Seguro para Apoiar a Identificação de Falhas na Especificação de Requisitos, Dacyr Gatto **228** - Guardrails for AI-Based Leader Digital Twins in Professional Military Education: Historical Commander Twins, Responsibility Preservation, and Meaningful Human Control, Giammarco Tosi **243** - Beyond Technical Defences: Human Cyber Risk in Defence and Critical Infrastructure, Antonio Goncalves **261** - PesArq: Plataforma Inteligente e Ciber-Resiliente para Classificação Arquivística, Governança Documental e Preservação Digital no Setor Público, Fabio Lucio Lopes de Mendonca **211** - Autonomous Outdoor Target Detection and Tracking with a Parrot Bebop 2 UAV Using YOLO and In-Flight Learning, Dario Mendoza-Chipantasi
17:00 – 17:30	**Coffee-Break - Biblioteca**

17:30 – 19:30	**S4 - Session 4 (In Person) | Room 1** ***Chair***: Sussy Bayona Ore
	219 - Duality of Convergence of AI, IoTs, IoBs, and Neuromorphic ASICs, Ashok Vaseashta **220** - Evaluation of the effect of three nutrient solutions on the growth of rose rootstocks (Rosa sp) of the Natal Brier va-riety, prior to grafting, Santiago Damián Quishpe Morales **234** - Multidimensional security and community resilience: an evaluation of a military-supported model in Ecuador, Yolanda Moreno-Guamán **279** - Inclusive Management Practices as a Strategic Driver of Performance and Resilience in Defense Organizations, Ricardo Marcao **290** - First Responders and Digital Forensics: A Bayesian Approach to Evaluating Chain of Custody Compliance, Diego Jose Donoso Vargas **215** - Using Explainable AI to Detect Counterproductive Leadership in Public Universities: An Algorithmic Governance Approach, Flavio López & Mishell Angulo- Alvarez
	S5 - Session 5 (online) |Room 2 **Link**: https://shorturl.at/DEqqM ***Chair***: Fábio Mendonça
	218 - Smart Cities and energy-efficient public transport to improve environmental quality A Case Study: Bogota and Santiago, Chile, Helmer Muñoz Hernandez **225** - Deep Learning-Based Aircraft Detection for Defense Surveillance Using YOLO, Alex Pachacama **262** - Estrutura Inteligente Baseada em LLM para Visibilidade de Dispositivos IoT em Redes Distribuídas, Fábio Lúcio Lopes de Mendonça **207** - European Security and Defense Funds: A Brief Analysis of Threat Exposure to Financial Support to Member-States, João Reis **233** - Reprogramming the Combatant's Mental Software: Analysis of Operational Stress and Self – Perceived Performance as a Basis for Psychomonitoring Model, Sonnia Alexandra Heredia Gálvez **235** - Defense Investment and Industrial Development in Europe Evidence from EU and NATO Member States, João Barros **237** - Technical-Legal Analysis of Security Gaps in Web-Based Accounting Systems in Ecuador: SQL Injection and Phishing under the LOPDP and the COIP, Santiago Damian Quishpe Morales **238** - A Linear Programming Approach to Workforce Scheduling in Military Queueing Systems, Manuel do Carmo **259** - Comparative Computational Efficiency Analysis: Mathematical Tools for Solving Systems of Equations (Gauss-Jordan, LU Decomposition, Gauss-Seidel) MATLAB R2025b and C++26, Pamela Gómez Martínez **268** - Arquitetura de Confiança Computacional para Sistemas Ciberfísicos Críticos: Avaliação de Robustez e Resiliência a Ataques em Subestações Digitais IEC 61850, Fabio Lucio Lopes de Mendonça
20:00 – 22:00	**Conference Dinner** Yacht Club Naval – Restaurant Simón Bolívar Palacios 2212, 090313 Guayaquil (Malecón 2000)

August 7	
9:00 – 11:00	**S6 - Session 6 (In Person) | Room 1:** ***Chair***: Gloria Valencia
	248 - The Role of Emotional Intelligence in Leadership: Implications for Organizational Performance and Culture, Ricardo Marcao **250** - Predictive Modeling of Physical Fitness in the Ecuadorian Army Based on the Analysis of Critical Anthropometric Variables, Eduardo Benavides-Astudillo **252** - An Energy and Connectivity-Aware Framework for Autonomous Riverine USVs in Defense Missions, Karen Pereira **256** - Priorização de Alvos em Extrações de Dispositivos Móveis via Integração Multi-Fonte e Modelagem Probabilística, Diego D. Cardoso **263** - On the physical layer modeling for reliable IoT communications in remote areas using LEO constellations, Luis Tello-Oquendo **291** - Improving Justice through Data: Bayesian Inference and the Forensic Evaluation of Road Accident-Related Homi-cides in Ecuador, Diego Jose Donoso Vargas
	S7 - Session 7 (online) | Room 2 **Link**: https://shorturl.at/DEqqM ***Chair***: Ana Lucia Toapanta Almagro
	208 - AI-Enabled Logistic Support for Strategic Decision-Making in Complex and Contested Environments, João Reis **253** - Bridging the OT/ICS Security Gap with Containerized Digital Twins for Oil and Gas Cyber Defense, Leandro Fernandes Correia **257** - Integrating Cyber Risk into Management Control Systems: Evidence from a Qualitative Study, Jean-Eric Pelet **258** - Validation of the Specific Perceived Academic Self Efficacy Scale in a Honduran Police Population, ELIZABETH CONCHITA ORTEGA ALVARADO **267** - Proposta de Arquitetura Segura e Integrada para Inventário de Ativos de IoT e Gerenciamento de Dispositivos com Resiliência Cibernética, Fábio Lúcio Lopes de Mendonca **271** - Hybrid OWASP Risk Prioritization Framework for REST APIs, Diego Gamboa **272** - Implementation and Certification Readiness Assessment of a Low-Cost Public Key Infrastructure for Academic Digital Signatures in a Public University, Mario Bernabe, Ron Egas **273** - The Unintended Consequences of Autonomy in Ecuador's Transitioning Military High Schools, Francisco Vinueza
11:00 – 11:30	**Coffee-Break - Biblioteca**
11:30 – 13:30	**S8 - Session 8 (In Person) | Room 1:** ***Chair***: Ashok Vaseashta
	266 - Artificial Intelligence in Management: Strategic Implications for Organizational and Defense Contexts, Ricardo Marcao **246** - Human-Centered Quantum Sensing in Defense: A Conceptual Framework for Wearable Neuro-Sensing of Operational Readiness and Performance, Eduardo Xavier Ferreira Glaser Migon **264** - Design of a Predictive Control Tuned by Evolutionary Algorithm Applied to a Nonlinear Conical Tank Level, Luis Tello-Oquendo **277** - A Comparative Study of Deep Learning and Transformers-Based Models for Offensive Text Detection and Sentiment Analysis, Gabriel León-Paredes **278** - Coaching-Driven Decision-Making in Defense Organizations: A Strategic and Leadership Perspective, Ricardo Marcao **292** - Integrating UAVs into Smart Policing: A Bayesian Ap-proach to Enhancing Public Safety in Metropolitan Quito, Diego Jose Donoso Vargas

11:30 – 13:30	**S9 - Session 9 (Online) | Room 2:** **Link**: https://shorturl.at/DEqqM ***Chair***: Andrea Luna
	240 - Fishing Intensity Around Protected Marine Areas in Central Mainland Portugal: A Spatial Comparison of 2016 and 2022, Pedro Francisco **241** - Preliminary Technical Validation of Legacy Cockpit Controls: An Exploratory Study of a Preserved Cockpit in the Fuerza Aérea Ecuatoriana (FAE), Washington Eduardo Loza Herrera **242** - Implementation of Secure Transmission and Threat Mitigation Strategies for Video Streaming over ISP Networks, Ivan Blagoev **244** - Communication Metadata as a Source of Operational Intelligence in Security and Defence Contexts, Antonio Goncalves **247** - Predictors of fatality in road traffic crashes in Honduras for the year 2024, Julio César Ávila Flores **260** - Comparative Evaluation of Random Forest and Deep Neural Networks for Intrusion Detection Using the CSE-CIC-IDS2018 Dataset, Washington Eduardo Loza Herrera **274** - Operational Multilateralism in the Latin American Antarctic Programmes, Fabian Arguello **270** - Arquitetura de Interoperabilidade Baseada em Identidade para Ecossistemas Digitais Distribuídos em Ambientes NextG/6G com Potencial de Aplicação em Defesa Cibernética, Fabio Lucio Lopes de Mendonca **255** - Data to Audit Intelligence: An Ontology-Driven Framework for Explainable Auditing of Mission-Critical Military Systems, Bruno Lourenco
13:30 – 15:00	**Lunch -** Restaurante Olmedo del TRYP by Wyndham Guayaquil Av. Joaquín Orrantia y Leopoldo Benítez, Guayaquil, 90505
15:00 – 17:00	**S10 - Session 10 (In Person) | Room 1:** ***Chair***: Mishell Romina Angulo Alvarez
	245 - Spoofing in Cooperative Perception: A Structured Evaluation Using the TUMTraf-V2X Dataset, Carlos Sousa **282** - Technological tool for learning of the control and monitoring of a level and flow process, FRANKLIN WILFRIDO SALAZAR LOGROÑO **285** - Detection and mitigation of threats in wired and wireless IoT traffic using hybrid techniques, CESAR DEL PINO **287** - Adoption Theories in Cybersecurity Research, Sussy Bayona Oré **289** - Lethal Violence and Weapon Typology in Urban Ecua-dor: A Bayesian Approach from the Eloy Alfaro Police District, Diego Jose Donoso Vargas **280** - Emotional Intelligence as a Strategic Capability for Leadership and Decision-Making in Defense Organizations, Ricardo Marcao
17:00 – 21:00	**Social Program**
	Tour by the main attractions of Guayaquil