

18 CONGRESO COLOMBIANO DE COMPUTACIÓN

MANIZALES, Del 4 al 6 de Septiembre 2024

PROGRAMACIÓN DETALLADA

Miercoles 4 de septiembre			
	Sesión 1 (Auditorio Biblioteca)	Sesión 2 (Auditorio Q103)	Sesión 3 (Auditorio S109)
10:30 a.m.	120 - Implementation of a Process Optimization Methodology using Aspen Plus and Python. Miguel Diaz-Diaz, Juan Solarte-Toro, Carlos Cardona-Alzate and Mauricio Orozco-Alzate	72 - Trends in Adaptive Graphical User Interfaces in Moodle LMS Systems through Artificial Intelligence techniques. Carlos David Posada Fernandez, Albeiro Espinosa Bedoya and John William Branch Bedoya	TP5 - Exploring a Self-Replication Algorithm to Flexibly Match Patterns. Nicolás Cardozo
10:50 a.m.	11 - Revisión Sistemática de Literatura sobre Automatización del Proceso Software. Leonardo Bermón Angarita and Camilo Cano Salazar	12 - GAMITIC- Herramienta para la Alfabetización de TIC en Docentes de Zonas Vulnerables. Bryjeth Ceballos, Isarel Sosa, Patricia Paderewski, Néstor Duque and Francisco Gutierrez	137 - Herramienta de Ingeniería Dirigida por Modelos para la generación de contratos inteligentes interoperables. Juan Pablo Cuervo Dorado, Edgar Dulce Villarreal and Julio Ariel Hurtado
11:10 a.m.	75 - Estudia: A Recommendation System for Higher Education Career Choice. Miguel Angel Paez Ramos, Angela Carrillo-Ramos and Jaime A. Pavlich-Mariscal	122 - Data Generation Strategies for the Application of Adaptive Learning Analytics. Pablo Andres Quijano Cabezas, Nestor Duque Mendez and Jovani Alberto Jiménez Builes	81 - Lightweight and Interpretable DL Model Using Convolutional RFF for AMC. Carlos Enrique Mosquera Trujillo, Diego Fabián Collazos Huertas, Andrés Marino Álvarez Meza and Germán Castellanos Dominguez
11:30 a.m.	20 - Formalisation of Hall's Theorem for Countable Infinite Graphs. Fabián Fernando Serrano Suárez, Mauricio Ayala-Rincón and Thaynara Arielly de Lima	58 - Reference Model of Appropriation of Digital Technologies for Learning in Higher Education Institutions. Germán González and Marta Tabares	104 - Development of a Robotic UV-C Device as an Alternative to Chemical Disinfection. Belarmino Segura Giraldo, Camilo S Jimenez, Mariana Londoño Orozco, Kevin Garcia Anturi and Juan David Tobon Peña
11:50 a.m.	TP3 - Métricas para la evaluación de factores de productividad de equipo en desarrollo ágil de software: un mapeo sistemático de literatura. Sandra Marcela Guerrero Calvache, Giovanni Albeiro Hernandez Pantoja	48 - Esmeralda: Support for Early Detection and Initial Attention to Dyslexia in First Grade Students through the Development of Digital Educational Resources. Paula Andrea Taborda Montes, Valentina Tabares Morales and Néstor Darío Duque Méndez	70 - Student attrition in higher education: A systematic mapping of causes and retention strategies. Luz Marina Zaparan-Cardona, Mariana Isabel Cervantes-Lozano, Eduar Bayona-Ibáñez, Dewar Rico-Bautista and Ramon García Gonzalez
12:10 p.m.	69 - MiMoQ: A System for Experimentation of Microservice-Based Applications. Mariela Curiel, Mauren Natalia Rivera, Angie Katherine Castro Florez, Anderson Jair Alvarado Rubio and Kevin Leonardo Lopez García	114 - Women in STEAM through the Lens of an Immersive-based Storytelling Design. Cecilia Avila Garzon, Jorge Luis Bacca Acosta and Ivan Ferney Rodríguez Rojas	82 - Educational Strategies and Tools Based on AI: A Systematic Mapping for the Personalization of Learning. Daniel Augusto Cortés Navarro, Santiago Alberto Álvarez Calvo, Byron Cuesta Quintero and Dewar Rico-Bautista
	Sesión 4 (Auditorio Biblioteca)	Sesión 5 (Auditorio Q103)	Sesión 6 (Auditorio S109)
4:00 p.m.	63 - Feature Selection in Machine Learning-Based IDS Performance. Jose Albeiro Montes Gil, Gustavo Isaza, Néstor Duque-Méndez, Jeferson Arango López and Fabián Rodríguez	30 - Neuropathic Pain Detection through Embedding Synergies of Deep Language and Image Models. Kevin Hernandez, Julian Gil, David Cárdenas and Álvaro Orozco	1 - On missing values and the imputation in learning neural networks. Jefferson Amado Peña Torres and Cristian E. Garcia
4:20 p.m.	77 - Exploring Advanced Deep Learning Methods for Image Steganography: New Approaches to Concealing Videos Within Videos. Omar Vargas	33 - Detection of depressive symptomatology in written narratives in Spanish using machine learning and semantic ontology. Juan Barrero, Eliana Ortiz, Rubby Castro, Andrés Domínguez and Natalia Caicedo	60 - System for self-care support of inpatient and/or home care patients by monitoring vital signs with an IoT-self-adaptive prototype: a systematic study. Diana Marcela Ramirez Rodriguez and Oscar Franco-Bedoya
4:40 p.m.	135 - Automated Machine Learning Prototype for Detecting Phishing, Deepfakes, and Fraudulent Audio Patterns: A Systematic Literature Mapping. Juan Torres, Rodrigo Martínez and Juan Caiza	92 - Vulnerability analysis of IoT devices (IP cameras) in Ocaña Norte de Santander. Luis Anderson Coronel-Rojas, Yesenia Areniz and Dewar Rico-Bautista	143 - Efficient Strategies for Finding the Minimum Information Partition in Integrated Information Theory 3.0. Luz Enith Guerrero-Mendieta, Jeferson Arango-López, Luis Fernando Castillo Ossa and Jorge Alberto Jaramillo Garzón
5:00 p.m.	109 - Entropy wall for symmetric cryptographic key generation through frame processing. Reinaldo Toledo and Jorge Camargo	84 - Application of Artificial Intelligence to Stock Market Investments: RSI Analysis with Genetic Algorithms and Neural Networks. Alejandro Galvis Florez, Alberto Antonio Agudelo Aguirre and Néstor Darío Duque Méndez	43 - Decomposition models for agricultural commodity price time series: A comparative research. Adelaida Ojeda Beltran, Emiro De la Hoz Franco and José Escorcía Gutierrez
5:20 p.m.	15 - Transparency and security in tourism: exploring the potential of blockchain technology.. Juan Gutiérrez, Martín Pantoja and Marcelo López	117 - A Study of U-Net-based Architectures for Segmenting COVID-19 Lung Lesions. Cristian Armando Sánchez Ocampo, Juan Pablo Reyes Gómez and Marcela Hernández Hoyos	139 - Evaluating pre-attentive perception of visibility graphs for representing ECG signals. Felipe Churio Churio, Wilson J. Sarmiento, Ricardo Gutiérrez, Marcela Iregui and Alexander Cerón
5:40 p.m.	2 - Safeguarding Connected Autonomous Vehicles: A Cybersecurity Perspective. Cesar Ramiro Beltrán Hernández, Rafael Vicente Páez-Méndez and Luisa Fernanda Amaya Herrera	141 - Hyperparameter Optimization of Multi-Layer Perceptron-based Predictors. Diego Armando Perez Rosero, Carlos Andres Altamiranda Gonzalez, German Castellanos Dominguez and Andres Marino Alvarez Meza	55 - Digital divide analysis in Colombia and Mexico using complex networks and open data platforms. Jheimer Julián Sepúlveda López and Luz Arabany Ramírez Castañeda

18 CONGRESO COLOMBIANO DE COMPUTACIÓN

MANIZALES, Del 4 al 6 de Septiembre 2024

PROGRAMACIÓN DETALLADA

Jueves 5 de septiembre		
	Sesión 7 (Auditorio Biblioteca)	Sesión 8 (Aula múltiple Biblioteca)
9:30 a.m.	3 - Optimization of personalized learning paths with Deep Q-Learning algorithm. Claudia Lengua-Cantero, Manuel Caro Piñeres and Juan Giraldo Cardozo	130 - Propuesta de marco de trabajo para la transformación digital educativa secundaria en la Institución Educativa Supía. María Alejandra López Cerón and Sergio Alejandro Rodríguez Jerez
9:45 a.m.	6 - Enhancing K-Centres Algorithm Efficiency in Python across Multi-Core and Many-Core Platforms. Santiago Monroy Heredia and Ana-Lorena Uribe-Hurtado	42 - DockerWizard: Optimización del Servidor de Investigaciones de la UNIAJC Colombia mediante la Automatización de la Gestión y Despliegue de Contenedores Docker. Alexis Alberto Ramirez Orozco, Santiago Ruiz Posso and Carlos Lino Rengifo Rentería
10:00 a.m.	64 - Análisis comparativo de la clasificación de Dengue y Chikungunya mediante técnicas de Machine Learning.. Wilson de Jesus Arrubla Hoyos, Jorge Gomez Gomez, Emiro De la Hoz Franco and Khalid Saeed	149 - Systematic review of methods for searching learning objects. Germán A. Osorio-Zuluaga and Sebastian Robledo
10:15 a.m.	151 - Metodología para Incorporar la Inteligencia Artificial a las Compras del Estado Colombiano por medio de Recomendaciones para la Agregación de Demanda. Israel Orozco and John Corredor	14 - Plataforma tipo banco de recursos educativos digitales para facilitar el acceso a materiales educativos en zonas rurales sin conectividad a internet.. Dayane Michelle Ceballos Cardona, Brigeth Ceballos, Nestor Duque Méndez and Patricia Paderewski
	Sesión 9 (Auditorio Biblioteca)	Sesión 10 (Auditorio S109)
11:00 a.m.	25 - Analysis of Pre-Trained Convolutional Neural Network Models in Diabetic Macular Edema Detection Through Retinal Fundus Images. José Araque-Gallardo, Eugenia Arrieta-Rodríguez, Margarita Gamarra, Javier Sierra-Carrillo and José Escorcia-Gutiérrez	52 - Unveiling Tourist Profiles in the Department of Sucre: A Text Analysis Approach. Danileth Almanza González, Edwin Puertas Del Castillo and Juan Carlos Martínez Santos
11:20 a.m.	123 - Mining of repositories to understand productivity in remote work environments. Alejandro Ahogado, Juan Muñoz, Jose Bocanegra, Viviola Gómez and Kelly Garces Pernet	67 - Ethical norms and literary visions: A comparative analysis of Artificial Intelligence in regulatory frameworks and science fiction. Diego Julian Santos Mendez, Jheimer Julián Sepúlveda López, Margarita María Pineda Romero and Dario José Delgado Quintero
11:40 a.m.	56 - Implementation of Convolutional Neural Networks for Automated Disease Detection in Cucumber Crops. Andrea Carolina Menco Tovar, Edwin Alexander Puertas Del Castillo and Juan Carlos Martínez Santos	73 - Comparing Regression Models with enhanced Interpretability for Wind Speed Forecasting in La Guajira-Colombia. E. A. León-Gómez, A. Álvarez-Meza and G. Castellanos-Dominguez
12:00 p.m.	119 - Automatic Disease Detection in Physalis Peruviana Based on Image, a review systematic. Marco Yandún-Velasteguí, Luis Rivera and José Herrera	57 - Emotional BDI Model (eBDI) of the Peasants Families WellProdSim Social Simulator. Jairo Enrique Serrano and Enrique González
	Sesión 11 (Auditorio Biblioteca)	Sesión 12 (Auditorio S109)
4:00 p.m.	68 - Implementación de un Sistema de Gestión de Seguridad de la Información conforme a ISO/IEC 27001:2022 en la Universidad de la Amazonia. Kevin Alejandro Benavides Nuñez and Heriberto Fernando Vargas Losada	49 - Guía para la generación de conjuntos de datos en usuarios de rea mediante fer en un jetson nano. Miller Daniel Quilindo Velasco, Nestor Milciades Díaz Mariño and Carolina Gonzales Serrano
4:15 p.m.	80 - Desarrollo de propuesta de seguridad de la información basado en la Norma ISO/IEC 27002 en área tecnológica para una organización. Madeline Daniela Narvaez Muñoz	142 - Diseño e implementación de sistema de bajo costo. Juan C. Escobar Naranjo, Karol Y. Pavas Leiva, Juan E. Graell Alzate, Juan M. Rojas Rojas and Aldemir Vargas Eudor
4:30 p.m.	136 - Gestión del conocimiento (SKMS) en áreas de tecnología basado en ITIL. Oscar Gonzalez	40 - Representación de dominios de software científico: un aprendizaje continuo a partir de estructuras matemáticas de los esquemas preconceptuales. Paola Noreña, Elizabeth Suescun, Johnathan Calle, Carlos Mario Zapata, Carlos Orozco and Carlos Alvarez
4:45 p.m.	23 - A Cloud-Agnostic Infrastructure Provisioning Approach for Scalable Microservices Architectures. Camilo Vargas and Jeisson Andres Vergara Vargas	86 - Optimisation of user interaction for the calculation of the Cobb angle in Lumbar Spine MR images. William Alberto Romero Ramirez, Susana Uribe Velásquez, Daniel Restrepo Quiñones and Duván Gómez

18 CONGRESO COLOMBIANO DE COMPUTACIÓN

MANIZALES, Del 4 al 6 de Septiembre 2024

PROGRAMACIÓN DETALLADA

Viernes 6 de septiembre		
	Sesión 13 (Auditorio Biblioteca)	Workshop: EUVETUS (Auditorio Q103)
9:30 a.m.	53 - Computational Thinking (CT) Measurement Model based on Bloom's Taxonomy and the GQM model. René Fabián Zúñiga Muñoz, Julio Ariel Hurtado Alegría, Marcos Román-Gonzalez and Gregorio Robles	124 - Influence of functional capacity in the living space (LS) in elders in small towns in the Colombian Andes: An analysis of the association between SPPB and LS. Eder Peña Quimbaya, Nestor Dario Duque Mendez, Luis Felipe Garcia Arias and Aldemir Vargas Eudor
9:50 a.m.	54 - Enhancing Vocational Guidance with Machine Learning: Predicting STEM Career Viability for High School Students. Melissa Andrea Moreno Novoa, Edwin Puerta Del Castillo and Juan Carlos Martínez Santos	152 - Towards a closer caregiver-physician relationship by wearable and ambient assisted living design. Sebastien Ambellouis, Rodrigo Varejão Andreão, Michel Baer, Paulo Armando Cavalcante Aguilar, Nestor Dario Duque Méndez, Anthony Fleury, Mosaab Hariz, Dan Istrate, Julie Lazès, Thomas Loeb, Christophe Lohr, Plinio P. Morita, Isabel Morales, Laura Nirello, Anna Ozguler, Eder Peña Quimbaya, Mariana Rampinelli, Celso Alberto Saibel Santos, Franco Simini, Sofiane Kab, Carla Taramasco, Vincent Zalc, Marie Zins and Diego Robles
10:10 a.m.	74 - Case study: Design of a training strategy to improve learning outcomes through the development of integrative projects. Luis Fernando Morales Martínez, Byron Cuesta Quintero and Magreth Rossio Reyes Sanguino	61 - Abdominal decompression protocol defined by therapeutic elements of ABDOPRE: 1st version. Danel Méndez Balado, Carolina Sofia Arámbulo Martínez and Franco Simini
	Sesión 14 (Auditorio Biblioteca)	Sesión 15 (Auditorio S109)
11:00 a.m.	89 - Analysis of Ipv6 Adoption in The Last Seven Years: A Systematic Mapping.. Darlyn Milena Fuentes Restrepo, Shirlly Jasney Trigos Ramirez, Antón García Barreto, Darwin Navarro Pino, Edwin Barrientos Avendaño and Dewar Rico-Bautista	65 - Parkinson Disease Rehabilitation Routines Described as Robot Instructions for PARKIBIP. Alejandra Rial, Franco Simini and Natalia Garay
11:20 a.m.	100 - Advanced Traffic Differentiation in LoRaWAN IIoT Networks through Contention Window Strategies. Mauricio González-Palacio, Liliana Gonzalez-Palacio, Lina M. Sepúlveda-Cano and María Clara Gómez-Álvarez	99 - Caracterización y procesamiento de señales de acelerómetros y giroscopios para evaluar la capacidad funcional del adulto mayor. Agustina Nappa Martinez, Franco Simini, Natalia Garay and Eder Peña
11:40 a.m.	121 - Gaussian Mixture Connectivity with Alpha-Renyi Regularization for EEG-based MI Classification. Danna Valentina Salazar Dubois, Andres Marino Alvarez Meza and German Castellanos Dominguez	TP4 - New algorithms for accurate and efficient de novo genome assembly from long DNA sequencing reads. Jorge Duitama
12:00 p.m.	50 - An Analysis of Technological Applications in Community Policing and Their Performance Assessment Through A Systematic Review. Obinna Ogonnia Otuu, Joseph Henry Anajemba, Felix Chukwuma Aguboshim and Deepak Sahoo	144 - Evaluating Motivation for initiating a Digital Transformation Process in MSMEs. Andrea Perez and Luisa Rincon