

2025 Mexican International Conference on Computer Science (ENC 2025)

**Orizaba, Veracruz, Mexico
10-14 November 2025**

IEEE Catalog Number:
ISBN:

CFP25418-POD
979-8-3315-9027-7



Copyright © 2025, IEEE

All Rights Reserved

Copyright and Reprint Permissions:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP25418-POD
ISBN (Print-On-Demand):	979-8-3315-9027-7
ISBN (Online):	979-8-3315-9026-0
ISSN:	1550-4069

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA

Phone:	(845) 758-0400
Fax:	(845) 758-2633
E-mail:	curran@proceedings.com
Web:	www.proceedings.com

TABLE OF CONTENTS

Industry Revolutions and Business Intelligence Resources for Designing an Automation Roadmap	1
<i>Josué Aarón López-Leyva, Miguel Ángel Ponce Camacho, Gerson Caleb Lopez-Servin de la Mora Víctor Manuel Ramos García</i>	
Study on Student Satisfaction with a Learning Management System in a Hybrid Learning Modality	7
<i>Luis Alejandro Gazca Herrera, Karina Culebro Castillo, Jessica Garizurieta Bernabe Ximena Montserrat Zarate Hernández, Akemi Sánchez Molgado</i>	
Technology Comparison for Medium-Voltage Switchgear: AIS vs. GIS	13
<i>Luis Ivan Ruiz Flores, Leoncio E. Morales Ocampo, Brenda Campos Castillo</i>	
Highlights in Electrical Substations Technologies for Connection to TSO's	19
<i>Luis Ivan Ruiz Flores, Esmeralda Plancarte, Brenda Campos Castillo</i>	
Prediction Air Temperature in Geothermal Heat Exchangers Using Pseudorandom Numbers: The New DARL Model	27
<i>C. Ramírez-Dolores, J.C. Zamora-Luria, J.A. Altamirano-Acosta, L. Sarao-Cruz, P. Jiménez-Palma J. Moreno-Falconi</i>	
Design and Implementation of a Hybrid System Integrating Wireless Sensors with an Optical Link with Potential Application in Precision Agriculture	33
<i>Eloy Mejía-Yautentzi, Josefina Castañeda-Camacho, Mario Alberto Castillo-Rosete Juan Carlos Colín-Ortega, Ignacio Enrique Zaldívar-Huerta</i>	
Spatial Patterns of Access to Water and Housing in Municipalities of the Mexican Republic: Structural Challenges for Sustainable Development and Smart Cities	38
<i>José Luis Hernández González, Rodolfo Eleazar Pérez Loaiza, Perfecto Malaquías Quintero Flores</i>	
Analysis of a Variable Capacitance Sensor Used to Monitor Volumetric Changes in Droplets	44
<i>Jorge Alberto Uc-Martín, Asur Guadarrama-Santana, Augusto García-Valenzuela</i>	
A Web-Based Geospatial Platform for Mapping Public Higher Education Graduates	50
<i>Diego Briscón-de-la-Torre, Rafael Rivera-López, Daniela Hernández-Barrios, Martin Hernández-Ordoñez Marco Antonio Cruz-Chávez</i>	
Directed Acyclic Graphs for Identifying Determinants of Postprandial Glucose in Type 1 Diabetes	56
<i>Rocío Contreras-Jiménez, Juan C. Olivares-Rojas, Adriana C. Téllez-Anguiano, José A. Gutiérrez-Gnecchi J. Eduardo Alcaráz-Chávez, Enrique Reyes-Archundia</i>	
A Novel Adaptive Transform for Fetal Heart Rate Estimation	62
<i>Diego Seuret-Jiménez, Daily Quintana-Fuentes, José Manuel Nieto-Jalil, Damian Valdés-Santiago Eduardo Trutié-Carrero</i>	
Performance Benchmarking of Edge Devices for Real-Time Facial Recognition Systems	68
<i>Oscar Fernando Lozada Herrejón, Rogelio Ferreira Escutia, Adrián Núñez Vieyra Juan Carlos Olivares Rojas, Miguelangel Fraga Aguilar, Marco Vinicio Chávez Baez</i>	
PWM Strategy for Leakage Current in a Transformerless Multinivel Inverter for PV System Applications	75
<i>Cesar Limones, Leonel Estrada, Nimrod Vazquez, Luis Fernando Gaona-Cardenas, Hector Hidalgo Hector Lopez</i>	

Embedded Fuzzy Logic Controller for a Pneumatic Levitation System	81
<i>Luis F. Olmedo-Garcia, Luis D. Ramírez-González, Omar A. Barra-Vázquez</i>	
<i>José G. Pérez-Juárez Trinidad Martínez-Sánchez, Maria I. Cruz-Orduña, Zayra E. Santos-Flores</i>	
Analysis of the Aerodynamic and Hydrodynamic Stability of FPSO in Deep Waters of the Gulf of Mexico	87
<i>José Hernández-Hernández, Edna D. Rosas-Huerta, María E. Tejeda-del-Cueto, Enrique Delgado-Alvarado</i>	
<i>Ernesto A. Elvira-Hernández, Agustín L. Herrera-May</i>	
Analysis of Wear Behavior of AISI 316L Stainless Steel Using the Finite Element Method	92
<i>Ramiro De Jesús García-Mesa, Andrés López-Velázquez, Enrique Delgado-Alvarado</i>	
<i>Ernesto A. Elvira-Hernández, Noé LópezPerrusquia, Marco Antonio Doñu-Ruiz</i>	
<i>Ervin Jesús Alvarez-Sánchez, Fernando Aldana-Franco, Agustín L. Herrera-May</i>	
Perspectives of Triboelectric–Electromagnetic Hybrid Nanogenerators for Smart Agriculture Monitoring	99
<i>Antia Ivett Álvarez-Bernabé, Ernesto A. Elvira-Hernández, Víctor Augusto Jarvio-Córdova</i>	
<i>Gerardo Mora-Aquino, María Cristina López-Méndez, Pedro Javier García-Ramírez</i>	
<i>Enrique Delgado-Alvarado, Agustín L. Herrera-May</i>	
Evaluating Readout Strategies in Liquid State Machines: Coding Schemes, Classifiers, and Separability Metrics	105
<i>Carlos-Alberto López-Herrera, Héctor-Gabriel Acosta-Mesa, Efrén Mezura-Montes</i>	
<i>Adriana-Laura López-Lobato, Jesús-Arnulfo Barradas-Palmeros</i>	
Classification of Non-Functional Requirements Using Neuroevolution of Convolutional Neural Networks	111
<i>María-Saarayim González-Hernández, Efrén Mezura-Montes, Ángel-J. Sánchez-García</i>	
Design and Fabrication of a Forearm Prosthesis for Pronosupination Movements	117
<i>César Hernández-Enríquez, Enrique A. Morales-González, Uwaisu Yusuf, Enrique Delgado-Alvarado</i>	
<i>Ernesto A. Elvira-Hernández, Jose Hernandez-Hernandez, Agustín L. Herrera-May</i>	
Quantum-Resistant Authentication Based on Digital Signatures: An Analysis and Study Case Under a Transition Scenario	123
<i>Eliú Moreno Ramírez, Miguel Morales-Sandoval, Claudia Feregrino Uribe</i>	
Distributed Deep Learning Model for Credit Card Fraud Detection: A Cloud-Based Scalability Study	129
<i>Alireza Izaddoost, Amlan Chatterjee</i>	
Multi-Authority Attribute-Based Encryption With Attribute Verification Using Zero Knowledge Proofs	135
<i>Alejandro Peñuelas-Angulo, Claudia Feregrino-Urbe, Miguel Morales-Sandoval</i>	
Neural Network-Based Computation of Robot Manipulator Configurations from Cartesian Coordinates	141
<i>Luis Roberto Cruz-Caos, Julio Antonio Caballero-Mora, Luis F. Marín-Urias, Rogelio de J. Portillo-Vélez</i>	
Charge Carrier Recombination Study of Perovskite $\text{MAPbI}_{3-x}\text{Cl}_x$ Solar Cell	147
<i>E.J. Morales-Flores, M.A. Millán-Franco, Hailin Hu, A.G. Vázquez, L. Martínez-García</i>	
<i>J. Martínez-Castillo, E. A. Morales González, J.C. Nolasco-Montaño</i>	
Scalable Construction of a Lung Cancer Knowledge Base: Profiling Semantic Reasoning in LLMs	151
<i>Cesar Felipe Martínez Cisneros, Jesús Ulises Quiroz Bautista, Claudia Anahí Guzmán Solano</i>	
<i>Bogdan Kaleb García Rivera, Iván García Pacheco, Yalbi Itzel Balderas Martínez, Kolawole John Adebayo</i>	
<i>Ignacio Arroyo Fernández</i>	

Implementation of a Large Language Model (LLM) for Spanish-Nahuatl Translation	157
<i>Eduardo Sánchez Lucero, José Crispin Hernández Hernández, Edmundo Bonilla Huerta Samuel Pérez Zistecatl</i>	
Design and Analysis of an Aerator to Reduce Biofouling on Ships	162
<i>Mariano Azzur Hernandez, Mariana Silva Ortega, Jesus Alberto Limon Baltazar Veronica Garcia Valenzuela, Enrique Delgado-Alvarado</i>	
Characterizations of Isoberlina Fiber Reinforced Recycled Low-Density Polyethylene Composites	166
<i>Uwaisu Yusuf, Nasiru A. Sani, Joseph Jacob, Nasir Sharif, Tushar Janardan Pawar José Luis Olivares-Romero, Javier Vallejo-Montesinos, J. Oscar. Jimenez-Halla Enrique Delgado-Alvarado</i>	
Detection of Suicidal Behaviors in Medical Students Using Machine Learning Techniques	174
<i>José G. González Rodarte, Alejandro Mauricio-González, Margarita L. Martinez-Fierro</i>	
Opportunities of Smart Polymeric Materials for Autonomous Marine Energy and Sensor Systems	180
<i>Maximo A. Figueroa-Navarro, Ma. A. Martinez-Cosio, G. Gonzalez-Chavez, L.H. Porragas-Beltran Marcela G. Téllez-Martinez, Gustavo M. Rodriguez-Linan, Jesus Delgado-Maciel, Huber Giron-Nieto Mario Antonio Peña Meza, Agustín L. Herrera-May, Enrique Delgado-Alvarado</i>	
Transhumeral Prostheses and Compliant Mechanisms: A Pathway for Rehabilitation	185
<i>Gerardo Mora-Aquino, Ernesto A. Elvira-Hernandez, Mario Antonio Peña Meza, Jesus Delgado-Maciel Victor A. Jarvio-Cordova, Huber Giron Nieto, Oliver Ochoa Garcia, Jaime Martinez-Castillo Saul M. Dominguez-Nicolas, Agustín L. Herrera-May, Enrique Delgado-Alvarado</i>	
Proposal for an ISMS for a University Computing Center	195
<i>Jazmín Morales Toxqui, Felipe Mauricio Méndez Luna, Hannia Monserrat Landa Rodríguez Julio Hernández Vargas</i>	
Use of Emerging Technologies in the Design of a Sailboat	201
<i>Luis Fernando Mena-Zamudio, Edna D. Rosas-Huerta, Mariano Azzur Hernández Contreras Agustín L. Herrera-May, José Hernández-Hernández</i>	
Assessing the Impact of Network Regularizers on the Performance of Convolutional Neural Network Architectures Evolved by DeepGA	209
<i>Jesús-Arnulfo Barradas-Palmeros, Efrén Mezura-Montes, Héctor-Gabriel Acosta-Mesa Carlos-Alberto López-Herrera, Francisco-Javier Hernández-Somohano</i>	
Towards Design and Implementation of an Interactive System for Real-Time Monitoring of Domestic Energy Consumption	215
<i>Jerry-Israel Romero-Villalobos, José-Guillermo Hernández-Calderón, Lorena Alonso-Ramírez L. Gerardo Montané-Jiménez, Valeria Soto-Mendoza</i>	
Large-Scale Validation and Analysis of the Rejection Capacity in Entropic Associative Memory	221
<i>Ángel Fernando Bórquez, Rafael Morales, Luis A. Pineda</i>	
Water Demand Model for the Valley of Mexico Using the Logistic Equation of Population Growth	226
<i>Mario Jiménez Hernández</i>	
Kinesthetic Chemistry Learning with the Multimolecular Structural Sphere (MMSS)	232
<i>Jorge Lozano-Aponte, Julián Alejandro Yunes-Rojas, Rosmarbel Morales-Nava, José Manuel Nieto-Jalil Andrea Escobar-Bazaldúa</i>	

Real-Time Software Architecture for Pid Angle Control in Experimental Pvtol Platforms	242
<i>Anai Camacho Luna, David Lara Alabazares, Abdelhamid RABHI, Jesus Namigtle Jimenez</i>	
<i>Jair Galicia Santiago, Irahan Otoniel José Guzmán</i>	
Central Dogma of Biology: Inclusion, Educational Game, and AI Technology in the University Classroom	248
<i>Julián Alejandro Yunes-Rojas, José M. Nieto-Jalil, Hera Andrade Zaldivar, Irma Cruz Solís</i>	
<i>Jorge Lozano-Aponte</i>	
Balancing Accuracy and Adaptability: Hybrid Analytical–Neural Control in Omnidirectional Robots	254
<i>Sebastian Mendez-Villegas, Julio Antonio Caballero-Mora, Alexandro López-González</i>	
<i>Janet López-Romero, Juan C. Tejada</i>	
Detecting Changes in the Photoplethysmographic Response of the Prefrontal Cortex by an Fnirs Device	260
<i>Martínez-Castillo J., González-Mejía G., Espinoza-Maza J. J., Zapata-Rodríguez U. G., Ortiz-Martínez F.</i>	
<i>Mendoza-Barron G., Mabil-Espinosa P.</i>	
Organic Field-Effect Transistor Model Based on Pentacene and Al ₂ O ₃ Thin Films	264
<i>M.Á. Pérez-Jiménez, A. L. Herrera-May, A. Baez-Rodríguez, U. G. Zapata-Rodríguez</i>	
<i>E. I. Caldelas-González, G. Mendoza-Barron, R. Rodríguez-Huerta, J. Martínez-Castillo</i>	
Design and Functional Simulation of a Specialized EEPROM for Reliable Storage of Physiological Data in FPGA Environments Using Xilinx ISE	269
<i>Jazmín Stephanie Hernández Martínez, Zaid Segundo Hernández Martínez, Daemon Vera, Victor Champac</i>	
<i>Pedro Mabil-Espinosa, Jaime Martínez-Castillo</i>	
Comparative Analysis of Natural Frequency in Mechanical Materials using Adaptive Photodetection with Speckle Patterns	274
<i>Darwin Mayorga Cruz</i>	
Simulation of Flash Memory Architecture Using VHDL in Xilinx ISE	280
<i>Ramírez-Cruz U. D., Zapata-Rodríguez U.G., Zapata-Rodríguez U.G., Mendoza-Barron G.</i>	
<i>Mabil-Espinosa P., Caldelas-González E.I., Martínez-Castillo J.</i>	
Current Status of Cluster Analysis Application in Software Construction Activities: A Systematic Literature Review	285
<i>Álvaro Barradas-Fernández, Ángel J. Sánchez-García, Oscar Alonso-Ramírez, Xavier Limón</i>	
Genetic Algorithm with Initial Driven Solutions Applied in the Automatic Design of Passive Analog Low-Pass and High-Pass Filters	291
<i>Braulio Jesús Montoya Padilla, Aurora Torres Soto, María Dolores Torres Soto, Rogelio Salinas Gutiérrez</i>	
OCR Model for Text-Based CAPTCHA Recognition	296
<i>Alfredo Villasenor-Monsivais, Alejandra G. Silva-Trujillo, Juan C. Cuevas-Tello</i>	
Development of a Cost-Effective Modular Vital Signs Monitoring System for Educational and Remote Healthcare Applications	303
<i>Netzha Valentino Vazquez Belmonte, José Ulises Meza Moreno, Guillermo Rey Peñaloza Mendoza</i>	
Educational Integration of ESP32 Project-Based Learning with Generative AI: Design, Implementation, and Evaluation in Two Engineering Cohorts	309
<i>Jose Manuel Medina Pozos, Jose M. Nieto-Jalil</i>	

Moisture-Induced Space-Charge Dynamics in Low-Density Polyethylene (LDPE) Resolved by PEA	315
<i>Jose M. Nieto-Jalil, Rosmarbel Morales-Nava, Adrian Isrrael tec Chim, David I. Ibarra-Zarate</i>	
<i>Diego Seuret-Jiménez, Juan M. Martínez Huerta</i>	
Space Charge Modulation in Low-Density Polyethylene via Electrode Interface Engineering: A PEA-Based Experimental Study	321
<i>Jose Manuel Nieto-Jalil, David I. Ibarra-Zarate, Juan Manuel Martinez Huerta</i>	
Human-Centered Hybrid CPS for Intelligent Forecasting in Cathodic Protection Systems	327
<i>Eduardo Trutié-Carrero, José M. Nieto-Jalil, Diego Seuret-Jiménez, Luz Edain Nava Borrego, Jorge Cantó</i>	
Virtual Laboratories Assisted by AI with Intelligent Feedback for Sustainable Engineering: A Quasiexperimental Evaluation in Agricultural Irrigation	333
<i>Adrian Isrrael tec Chim, Jose M. Nieto-Jalil, David I. Ibarra-Zarate, Jorge Alvarez, Ulises Ojeda</i>	
EEG-Based and Self-Perceived Assessment of Auditory Discrimination and Attentional Responses to Intensity, Pitch and Localization Changes	339
<i>Sergio M-Cam, Priscila Montoya-Beltrán, Ricardo Ortega-Ramírez, Luz M. Alonso-Valerdi</i>	
<i>David I. Ibarra-Zarate</i>	
Hilbert-Huang Transform-Based Time-Frequency Analysis for Bearing Fault Diagnosis in Rotating Machinery	344
<i>Ngoc Quy Hoang, David I. Ibarra-Zarate, Jose Manuel Nieto-Jalil, Juan Manuel Martinez Huerta</i>	
<i>Adrián Isrrael Tec Chim, Jorge Alvarez</i>	
A Comparative Analysis of a Leading Communication Service and a Professional Audio Streaming Tool for Academia	351
<i>Flavio Everardo, Norberto E. Naal-Ruiz, David I. Ibarra-Zarate, Gabriel R. Gil-Muñoz, Sebastián Portillo</i>	
<i>Esteban Vergara-Mena</i>	
Reduction of Energy Consumption Through Energy Storage Controlled by Artificial Intelligence in Buildings and Homes	357
<i>Adolfo de Jesús García-Méndez, José de Jesús Sánchez-Hernández, Jesús García-Guzmán</i>	
Integration of MLOps into the Software Development Lifecycle: A Systematic Review	367
<i>Kenia Cancañón-Rodríguez, Mirna Muñoz, Himer Avila-George</i>	
Enhancing Algebra Learning and Technology Acceptance Through a Gamified Mobile App	373
<i>Elizabeth Mena-Aviles, Luz Natzin López-Gonzalez, Jose Manuel Medina Pozos, Claudia Hernandez-Mena</i>	
Teaching Inverse Matrices through Matrix Cryptography and COIL: A Binational Qualitative Study Aligned with SDG 4	379
<i>Gerardo Rocha Feregrino, Pilar Alejandra Carrasco Espinoza</i>	
Optical Flow-Based Visual Estimation of Translational Displacement Using a Raspberry Pi® Embedded Computer	386
<i>B. J. Mota López, G. Delgado Reyes, M. A. Hernández Pérez, F. A. Carpio Santamaría</i>	
<i>S. Marquez Domínguez</i>	
Adaptive Cybersecurity for Industrial Environments Using Evolutionary Algorithms: A Methodological Proposal	392
<i>J. E. Soto Soto, J.I. Hernández-Vega, L. E. Gómez-Sánchez, L. A. Reynoso-Guajardo, C. Hernández-Santos</i>	
<i>A. Alonzo-Garcia, J. F. Jimenez-Vielma, A. G. Silva-Trujillo</i>	

Exploring the Integration of Virtual Reality in Multivariable Calculus: A Study on Technology Acceptance and Student Engagement	398
<i>Julio Cesar Avila, Jose M. Nieto-Jalil, Ludovic Guillaume Florent Betton</i>	
Strategic Mathematics for Sustainability: Integrating SDGs and AI in Digital Engineering Education	404
<i>Ulises Ojeda Sánchez, Jose M. Nieto-Jalil, Adrian Isrrael Tec Chim, Alfredo Antonio Carrasco Reyes</i>	
Shannon and Fisher Entropies for the 2P and 3D States of the Hydrogen Atom Confined in a Penetrable Spherical Box	410
<i>Andrei Solórzano Pérez, Jose Manuel Nieto-Jalil</i>	
Enhancing Electromagnetic Conceptualization Through AI-Driven Simulation in First-Year Bioengineering Education	414
<i>Andrei Solorzano Perez, Jose Manuel Nieto-Jalil, Adrián Isrrael Tec Chim, David I. Ibarra-Zarate Claudia Hernandez Mena, Jorge Alvarez</i>	
Binary/Ternary Neural Networks for Gesture and Human Activity Recognition in Ultra Resource-Constrained Sensor Systems	420
<i>Alberto Rodriguez Arreola, Jose Rodrigo Camacho Perez, Emma Gutierrez Cortes, Theodoros D. Verykios</i>	
A Mamdani Fuzzy Logic Approach for Demand-Based Inventory Purchase Planning	426
<i>Zayra E. Santos-Flores, Luz M. Ramos-González, Javier Calderon-Sánchez, José R. García-Martínez Omar A. Barra-Vázquez, Irving Mora-González</i>	
Experimental Evaluation of a Fuzzy Logic-Based Controller for a Two-Wheeled Balancing Robot	432
<i>Irving Mora-González, José R. García-Martínez, José G. Pérez-Juárez, Trinidad Martínez-Sánchez Luis F. Olmedo-García, Rafael Rojas-Galván</i>	
Balancing Robot Control via State-Space Approach with Evolutionary Dynamic Parameter Identification	439
<i>Leslie N. Monroy-Bautista, José R. Rivera-Ruiz, Edson E. Cruz-Miguel, Jose G. Pérez-Juárez José R. García-Martínez, César García-Arellano</i>	
Multi-Task Learning Framework for Spanish Speech Emotion Recognition	445
<i>Alex Mares, Gerardo Diaz-Arango, Hector Vazquez-Leal, Jorge Eduardo Perez-Jacome-Friscione Luis Hernandez-Martinez, Jose Luis Vazquez-Gonzalez</i>	
Computer Vision-Based Color Detection and Distance Estimation with an Online Graphical Interface	451
<i>Alejandro Álvarez López, Ángel Hernández Cárdenas, Jesús Alberto Sánchez Tiburcio Neyzer E. Vázquez Espinoza, Alfredo Cristóbal-Salas, Mario González-Lee, José R. García-Martínez</i>	
Chatbot as Informative Support: Case Study in the Faculty of Accounting and Administration, Universidad Veracruzana	457
<i>Mayra Minerva - Méndez Anota, Felipe Mauricio - Méndez Luna, Alma Delia - Otero Escobar</i>	
Mechanical Evaluation of 3D-Printed Hand Prosthesis Joints	462
<i>Denisse Uscanga-Tlalpan, Gerardo Diaz-Arango</i>	
Collaborative Learning and Motivation in Virtual Environments: A Comprehensive Proposal for Online Education	468
<i>Roxana Villanueva, Karina Mariela Figueroa Mora, Christian Erik Casillas Farfán</i>	

Expert-V: a Modular Virtual Laboratory System With Advanced Virtual Reality Simulation for Engineering Education	474
<i>Martin Hernández-Ordoñez, Arely Morales-Lastra, Rafael Rivera-López, Yael López-González Pedro Lázaro-Gutiérrez, Altagracia Caridad Medina-Santiago, Gerardo Emilio Bravo-Ortigoza Roberto Jerez-García</i>	
Comparison of Clustering Algorithms on Facial Image Embeddings: K-Means vs. Fuzzy C-Means	480
<i>Ángel García-Báez, Héctor-Gabriel Acosta-Mesa, Sergio Hernández-Méndez</i>	
Implementation of the Personal Software Process (PSP) in Software Engineering Education: A Case Study	486
<i>Luis Ángel Rueda Díaz, Patricia Martínez Moreno, José Antonio Vergara Camacho Gerardo Contreras Vega</i>	
Integration of Classification, Survival, and Explainability Models for Breast Cancer Recurrence Prediction Using Clinical and Molecular Data	492
<i>Celia Chumbimuni, Mariana Ravines, Claudia Huanca, Leonardo Camarena, Nihori Tovar</i>	
Feasibility Analysis for the use of Satellite Internet Through Solar Panels in Connectionless Communities	498
<i>Diego Leon Infanzon Mere, Juan Antonio Pinilla Rodríguez, José Adolfo Jiménez Solís, Sergio Roman Jara Carlos Javier Gasca Caballero</i>	
LP Gas Leak Detection Prototype for Rural Areas With Aes-256 Encryption via LoRa and 3G Network Transmission	505
<i>Soto-Ortiz S. I, Salazar-Pérez P. J, Homero De Jesús Portillo Calva</i>	
YEGI: Web Systems Based on Large Language Models to Generate Summaries	511
<i>Yavé Emmanuel Vargas Márquez, Giovanna Inosuli Campos Flores, Mayra Alejandra Torres Hernández Roberto Oswaldo Cruz Leija, Jezreel Mejía, Mario, Cesar Ordoñez Gutiérrez</i>	
An Analysis of Indexes to Forecast the Achievement of the Sustainable Development Goals of the United Nations: A Case Study Mexico	519
<i>Gerardo M. Ortigoza, William A. Castillo</i>	
Retrieval-Augmented Generation for Maternal Healthcare: Design and Evaluation of a Clinical Question-Answering System in Spanish	526
<i>Adriana Noguera, Andrés L. Mogollón-Benavides, Santiago Rua, Daniel Sanin-Villa, Juan C. Tejada</i>	
Optimization of Kinematic Control Laws in Differential Robots Using the White Shark Optimizer	532
<i>Luis M. Nieto, Diego Restrepo-Leal, José R. Rivera-Ruiz, Luis D. Ramírez-González, Edson E. Cruz-Miguel José R. García-Martínez</i>	
Forward and Inverse Kinematics Implementation in a 4-DOF Master-Slave Robotic System with WiFi Communication	538
<i>José G. Pérez-Juárez, Emmanuel Portilla-Huidobro, Rodrigo Vidal-Martínez, Asael Rosas-García José R. García-Martínez</i>	
Analysis of the Maximum Thermal Sensation in the Veracruz-Boca Del Río Conurbation Zone of the Thermoperivallón from 1981 to 2021	544
<i>Roberto Díaz-Marchetti</i>	