

Lunes 10 de noviembre

Auditorio CIITA

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<https://zoom.us/j/92461884797>

Hora (UTC-6)	Participantes	Artículo / Panel	Track
7:30 - 8:00	Registro de participantes		
8:00 - 8:30	Inauguración: Luis Hernández Callejo, Tomás Garduño Pérez (Director CIITA Puebla), Yessica Gasca Castillo (Secretaria de Innovación e Integración Social del IPN),		
8:30 - 8:50	“Mantenimiento Electrónico: La Estrategia Silenciosa que Protege la Inversión Pública”, CAPITÁN DE FRAGATA CG. DEM. Luis Ricardo Montaña González, Director del Centro de Mantenimiento en Optoelectrónica de la Marina de la Armada de México		
8:50 - 9:20	"Información de la Secretaría de Investigación y Posgrado (SIP) del IPN", Ponente TBD		
9:20 - 10:15	Panel de discusión persperctiva de género, moderadora: Gina Gallegos (CIC-IPN); participantes: Nadia Lara (UAEM-MX), Susana Gómez (UVA-ES), Vanessa Guimarães (UFRJ-BR) y Guadalupe Carmona (UAEH-MX)		
10:15 - 10:30	Receso para café		
10:30 - 10:45	Marlon Geovanny Roa Serpa, Wilson Andrés Ocampo Cardozo and Victor Garrido	117 - Comparative Analysis of Artificial Intelligence and Classical Recursive Estimation Methods for AMI Monitoring in Low-Voltage Distribution Networks	Smart Cities from an inclusive vision & Smart economy & Smart enviroment & Smat Grids Track Chair: Vanessa Guimarães
10:45 - 11:00	Abdulrhman Gbiban	11 - Reframing Urban Mobility: Assessing Land Use, Accessibility, and Equity through the Riyadh Metro	
11:00 - 11:15	Miguel Ángel Juárez Merino	22 - From Digital Government to Smart and Sustainable Cities in Latin America	
11:15 - 11:30	Alejandro Vergara and José David Ortega	119 - Integra Hub: Territorial Educational Innovation for Inclusive Smart Cities A University. Submodel for Technological and Social Articulation in Regional Contexts	
11:30 - 11:45	Edwin Gerardo Acuña Acuña, Aura Susana Crespo Sánchez, Jimena Alfaro Rodríguez and Ronald Stephenson Álvarez	10 - Smart Public Services in Industry 5.0: IoT and AI Applications for Sustainable Infrastructure	
11:45 - 12:00	Richard Gutierrez Cuesta, Edwin Gerardo Acuña Acuña and Cynthia González Jiménez	12 - Mathematical Competencies for Innovation and Entrepreneurship in the Smart Economy	
12:00 - 12:15	Iván Jiménez-Durán, Lodriz Lorenzo Rodríguez, Miguel Aybar-Mejía, Deyslen Mariano-Hernández and Carlos Sanlley	77 - Eddies as indicators of local sargassum inundation risks on the south coast of Dominican Republic	
12:15 - 12:30	Mauricio Mendes da Silva, Conrado Fleck dos Santos and Claudio Yorsi de Los Santos	111 - DISO Interleaved Buck Converter with PV–Wind Sources for 2nd-Life Li-Ion Battery Charging	
12:30 - 12:45	Ayman Imam	13 - Urban Climate Resilience in the Era of Vision 2030: Thermal Impacts of Mega Projects in Riyadh	
12:45 - 13:00	Receso para café		
13:00 - 13:15	Nicolás Buero, Joaquín Tomás, Diego Rossit and Sergio Nesmachnow	53 - Evolutionary algorithms for the optimization of irrigation systems	
13:15 - 13:30	Jose-Isidro Hernández-Vega, Luis-Alejandro Reynoso-Guajardo, Jesús-Enrique Soto-Soto, María-Ernestina Macías-Arias, Mario-Carlos Gallardo-Morales and Jorge-Eduardo Ortega-Lopez	82 - Smart Industry Using Industry 4.0 and 5.0 to Improve Manufacturing Processes in Small and Medium-Sized Businesses in México	
13:30 - 13:45	Daniel Viera, Diego Rossit, Sergio Nesmachnow and Claudio Risso	88 - Bi-objective optimization for task assignment with multi-skilled workers under deadline constraints in IT service companies	

13:45 - 14:00	Sinuhe Gines Palestino, Eduardo Roldán Reyes, Marcela Quiroz Castellanos and Adilene Palma Asunción	131 - Implementation of a Metaheuristic based on K-means and Ant Colony Optimization	Smart mobility & Smart Industry Track Chair: Nadia Lara Ruiz
14:00 - 14:15	Edwin Gerardo Acuña Acuña, Christopher Hernández López, José David Leal Caro, Faider José Solano Herrera, Carlos Vega Quirós and Kenneth Andrés López Cerdas	8 - IoT-Driven Smart Mobility: Enhancing Urban Transportation Efficiency with AI and Big Data	
14:15 - 14:30	Miguel Aybar-Mejia, Anyel Guzman-De Los Santos, Cristhian Medina-Peña, Oscar Pérez-Otáñez, Yendry Estévez-Feliz, Armando J Taveras-Cruz and Deyslen Mariano-Hernandez	30 - Electric Vehicle Bidirectional Charging Infrastructure: A Review of its Impact on the Grid	
14:30 - 14:45	Luis Rementería, Andrei Tchernykh and Sergio Nesmachnow	114 - Multi-objective vehicle routing problem with time windows and service restrictions	
14:45 - 15:00	Cinthya Butrón-Revilla, Liliana Valverde-Caballero and Yolanda Pamo Díaz	127 - Observación Territorial integral: Análisis de Pendiente, Radiación y Confort térmico como Determinantes de la Caminabilidad en Entornos Urbanos	
15:00 - 15:15	Ana Beatriz Fernandes Fangueiro, Jorge Junio Moreira Antunes and Vanessa de Almeida Guimarães	133 - Brazilian Bus Transport Efficiency: A Simar -Wilson DEA with Beta-Tobit Analysis	
15:15 - 16:00	Almuerzo		
16:00	Fin de actividades		
Martes 11 de noviembre			
Auditorio CIITA			
Enlace público en general:			
https://zoom.us/j/92461884797			
Hora (UTC-6)	Participantes	Artículo / Panel	Track
7:50 - 8:00	Bienvenida		
8:00 - 8:15	Alicia Nadal Salas, Marta Pons Nieto, Esperanza Dalmau, Antoni Capellà Ferretjans and Susana Simal	41 - Agrivoltaic evaluation of horticultural crops for Balearic tourism: Comparative analysis of lettuce, tomato and zucchini	Energy Efficiency and Sustainability Track Chair: Carlos Torres
8:15 - 8:30	Carlos Gilabert-Torres, Giuseppe M. Tina, Gabino Jiménez-Castillo, Francisco José Muñoz-Rodríguez and Catalina Rus-Casas	52 - Urban decarbonization through PV installations on building facades: the real-life case of a university building in southern Spain	
8:30 - 8:45	Cristina Sáez Blázquez, Sergio Alejandro Camargo Vargas, Daniel Herranz Herranz and Miguel Ángel Maté-González	66 - Harnessing Low-Enthalpy Geothermal Energy to Enhance Road Infrastructure Resilience: Insights from GEO-ROAD Project	
8:45 - 9:00	Armando Díaz-Motta and Francisco Díaz-González	68 - Can offshore wind make green ammonia competitive? Insights from a Spanish case study	
9:00 - 9:15	Juan Antonio Rodríguez-Rama, José F. Mediato-Arribas, Evelyn Carrión-Ocaña, Andrea Pérez-Díaz, Iván Moreno-González, Jesús García-Crespo, Paula Fernández-Canteli and Teresa Sánchez-García	109 - Geothermal Energy and Data Centres in Spain: An Exploratory Framework for Sustainable and Efficient Digital Infrastructures	
9:15 - 9:30	Diana Alexandra Murcia-Velasco, Adriana Correa-Guimaraes and Luis Manuel Navas-Gracia	136 - Quantifying Environmental Benefits of Energy Refurbishment: From Fossil Fuel to Biomass Heating in University Buildings - A Case Study	
9:30 - 9:45	Gabriel Silva	18 - Optimized blockchain architectures for prosumer-centric energy markets: A performance and policy framework	

9:45 - 10:00	Amy-Zulema Velasco-Bonilla, Rachel Josephine Aniny Okango, Luis Hernández-Callejo, Alberto Redondo-Plaza, Víctor Alonso Gómez, Carlos Enrique Torres Aguilar, Angel Zorita Lamadrid, Alejandro del Amo Sancho, Ali Bassam and Ghada Amami	20 - Electrical characterization of a photovoltaic thermal system using I-V curves: an experimental study in Soria, Spain	
10:00 - 10:15	Alberto Redondo-Plaza, Amy Zulema Velasco-Bonilla, Vanessa de Almeida Guimarães, Ghada Amami, Ángel L. Zorita-Lamadrid, Víctor Alonso-Gómez and Luis Hernández Callejo	21 - Electroluminescence Imaging Comparison for Crystalline Silicon Photovoltaic Modules	
10:15 - 10:30	Receso para café		
10:30 - 10:45	Ariadna Huerta Ortiz and Laura Irene Morales Gomez	45 - ESTIMATION OF HEAT TRANSFER COEFFICIENTS IN A DUAL FALLING FILM CONDENSER	Energy Efficiency and Sustainability Track Chair: Victor Alonso
10:45 - 11:00	Karla Anahi Altamirano Tlali, Laura Lilia Castro Gómez, Miriam Navarrete Procopio, Víctor Manuel Zezatti Flores and Juan Carlos García Castrejon	59 - Regeneration of absorbent solution in a desorption column for post-combustion CO2 capture at laboratory scale	
11:00 - 11:15	Jonathan Muraña and Sergio Nesmachnow	80 - Lightweight energy consumption models for high performance computing	
11:15 - 11:30	Dudley Williams, Jean-François Dorville, Jayaka Campbell and Marhoun Ferhat	102 - Optimizing PCM Melting Range for Passive Cooling in Tropical Climate: An Infrared Thermography Approach Using Jamaican Climate Data	
11:30 - 11:45	Ricardo Alcaraz Fraga and Jorge Ponciano Escamilla Ambrosio	129 - Optimizing Solar Panel Allocation in Smart-City Buildings Using Genetic Algorithms	
11:45 - 12:00	David Balladares-de-la-Cruz, Carlos-Enrique Torres-Aguilar, Luis-Enrique Angeles-Montero, Luis Manuel Lopez-Manrique, Julio-Cesar Ramírez-Hernández, Justino Alavez Ramirez and José Mauricio Rodríguez Valencia	130 - An smart industry study approach in photovoltaic panels and FEM design	
12:00 - 12:15	Toni Ann Hendricks, Jayaka Campbell, Dudley Williams, A. Anthony Chen, Kevin Mills, Randy Koon Koon and Aston Stephens	137 - Operational Lessons from a Commercial PV+ System in Jamaica: Curtailment, Frequency, and Demand Charge Management	
12:15 - 12:30	Jesús Armando Aguilar-Jiménez, Juan Ríos-Arriola, Nicolás Velázquez, Saúl Islas-Pereda, José Alejandro Suástegui-Macías and Marlene Zamora-Machado	25 - Economic Impact of Thermal Comfort: A Climate Zone and Electricity Tariff Subsidy Approach	
12:30 - 12:45	José Daniel Gámez-Avilez, Saúl Islas-Pereda, Jesús Armando Aguilar-Jiménez and Nicolás Velázquez-Limón	122 - Design, construction, and experimental characterization of a low-cost test bench for Peltier modules for thermoelectric power generation	
12:45 - 13:00	Receso para café		
13:00 - 13:15	Miguel Aybar-Mejía, Onesimo Ramirez, Deyslen Mariano-Hernández, Roberto Eduardo Quintal Palomo, Máximo Alberto Domínguez Garabitos, Rony Montero and Armando Tavera	81 - Analysis of the Impact of the Penetration of Variable Renewable Energies on the Inertia of the National Interconnected Electric System (SENI) of the Dominican Republic and Mitigation Proposals	Electricity Systems
13:15 - 13:30	Magdalena Iruirtia, Santiago Iruirtia, Rodrigo Porteiro and Sergio Nesmachnow	92 - Reinforcement Learning for short-term battery dispatch in renewable-thermal power systems	
13:30 - 13:45	Jairo De Oliveira, Matías Aguilar, Juan Insfran, Fernando Antúnez, Adolfo González, Raúl Gregor, Leonardo Comparatore and Osvaldo González	98 - Sliding Mode Control of Three-Level NPC Converter-Based STATCOM for Reactive Power Compensation	

13:45 - 14:00	Florencia Roque, Matías Rama, Ignacio Salas, Mónica Carle and Rodrigo Porteiro	108 - A Q-learning approach for long-term hydrothermal dispatch	Track Chair: Alberto Redondo
14:00 - 14:15	Emmanuel Hernández-Mayoral, Gregorio Martínez-Reyes and Iridian Guadalupe Ortiz-Jiménez	110 - Electric Vehicles–based Microgrid for Demand Response Studies using a Stochastic Algorithm	
14:15 - 14:30	Claudio Risso, Sergio Nesmachnow, Rodrigo Porteiro, J.Mario Vignolo, Emiliano Sierra and Mario Ibarburu	112 - A Mixed Combinatorial Optimization Model to Manage the Hydrothermal Dispatch for the Uruguay River Hydroelectric Plant	
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15:15 - 16:00	Almuerzo		
16:00	Fin de actividades		
Salón 1			
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Hora (UTC-6)	Participantes	Artículo / Panel	Track
7:50 - 8:00	Bienvenida		
8:00 - 8:15	Manuel González, Félix Santos, Deyslen Mariano-Hernández, Martin Melendez, Armando J Taveras-Cruz, Miguel Aybar, Fabio Andrade Rengifo and Marcel Castro-Sitiriche	23 - Systematic review of methods for flow optimization in photovoltaic solar pumping systems under conditions of irradiance variability	Electric systems Track Chair: Carlos Rodrigo Baier Fuentes
8:15 - 8:30	Fabio Castro, Fernando Lezama, Joao Soares, Bruno Canizes, Jesus C. Hernandez and Zita Vale	34 - Evaluating Non-Network Solutions for Distribution Network Reinforcement Deferral: A 30-Year Scenario- Based Analysis	
8:30 - 8:45	David Marcos-Andrade, Francisco Beltran-Carbajal, Ivan Rivas-Camero, Daniel Guillen and Jesús C. Hernández	42 - Design and Evaluation of a Hybrid Electronic Speed Controller for Brushless DC Motors for Smart Mobility Applications	
8:45 - 9:00	Oscar Danilo Montoya Giraldo, Luis Fernando Grisales Noreña and Carlos Baier	65 - Incorporating Voltage-Controlled Nodes into the Matrix-Based Successive Power Flow Method	
9:00 - 9:15	David Alejandro Tohapanta-Quiranza, Jairo Andres Sedano-Duque, Oscar Danilo Montoya Giraldo, Rubén-Iván Bolaños and Carlos Adrián Correa-Florez	84 - Economic–Environmental Dispatch of Thermal Power Plants Using the Newton-Raphson Optimization Algorithm	
9:15 - 9:30	Allison Vasquez, Allisson Zelaya, Luis A. Martinez, Miguel Chen Austin and Jesus C. Hernandez	85 - Methodology for energy modeling of cities or small countries with a view to decarbonization and climate resilience	
9:30 - 9:45	Néstor Villamayor, Magno Ayala, Osvaldo González, Gustavo Adolfo Ojeda Cuellar, Gianyacommo Zucchini and Franciele Weschenfelder	86 - Design and Implementation of a Proportional-Resonant Controller for Precise Current Tracking in a Three-Phase Induction Motor	
9:45 - 10:00	Daniel Sanin-Villa, Luis Fernando Grisales Noreña, Rubén Iván Bolaños, Jesus C. Hernandez and Oscar Danilo Montoya	100 - Intelligent Operation of BESS for Active and Reactive Power Management in AC Microgrids Using the Crow Search Optimizer	
10:00 - 10:15	Oscar Danilo Montoya Giraldo, Walter Julián Gil-González and Juan Diego Pulgarín Rivera	118 - Application of the ACT5S Numerical Method for Solving Power Flow Equations in DC Monopolar Systems	
10:15 - 10:30	Receso para café		
10:30 - 10:45	Kevin Pavez, Francisco Esteban, Federico Serra, Carlos Baier, Eduardo Espinosa, Bruno França and Miguel Aybar-Mejia	32 - Design of a control strategy to reduce DC offset and maximum HFT current of a DAB converter under open circuit fault in the first active bridge	

10:45 - 11:00	Eduardo Espinosa, Ricardo Lizana, Guillermo Ramirez, Pedro Melin, Carlos Baier, Federico Serra, Osvaldo Gonzalez and Jesus C. Hernandez	38 - Analysis of Classic Multilevel Inverters for Electric Vehicle Applications	Electric systems Track Chair: Joao André Pinto Soares
11:00 - 11:15	Emerson Madrid-Lorca, Yamisleidi Salgueiro, Esteban I. Marciel, Carlos A. Munoz, Luis Grisales-Noreña, Oscar Danilo Montoya and Carlos R. Baier	60 - Optimal Dispatch in a Multinodal AC Microgrid Model with Battery Energy Storage System (BESS) and Solid-State Transformer (SST)	
11:15 - 11:30	Jacobo Patiño Bucheli, Fabio Andrade Rengifo and Federico Serra	36 - Design and Comparative of a Single-Stage Amplifier Using Radiation-Hardened Annular MOSFETs vs. Conventional MOSFETs	
11:30 - 11:45	Manuel R. Vasquez Castellanos, Andrés Ortiz Salazar, Francisco J. Sánchez Sutil, Jesús C. Hernández, Antonio Cano Ortega and Ney R. Balderramo Vélez	40 - Clustering techniques to improve the prediction of the THD index for poorly correlated predictor variables	
11:45 - 12:00	Franciele Weschenfelder, Priscila Silveira Ebert and Vittorio Valetta Rodríguez	79 - The impact of data quality on the viability of wind energy projects	
12:00 - 12:15	Adolfo Hiram Gonzalez Marin, Gianyacom Zucchini, Jairo De Oliveira, Matias Aguilar, Osvaldo González, Raul Gregor, Julio Pacher and Eduardo Espinosa	83 - FCS-MPC multiobjetivo en NPC con filtro LCL en GCPVS bajo transitorios de irradiancia	
12:15 - 12:30	Caio Cesar Amorim Silva, Walquiria Nascimento Silva, Bruno Henriques Dias and Jesús C. Hernández	103 - Ultra-Fast EV Charging Stations in Distribution Grids: Impacts and Hosting Capacity Assessment	
12:30 - 12:45	Receso		
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13:30 - 13:45	Roger Chalco, Francisco José Sánchez Sutil, José Carlos U. Peña, Antonio Cano Ortega and Carlos Henriques Oliveira	37 - Renewables to save the island from islanding: the Cozumel study case	Energy Efficiency and Sustainability Track Chair: Eduardo Enrique Espinosa Neira
13:45 - 14:00	Cristopher E. Barberán Torres, Ney R. Balderramo Vélez, María G. Intriago Cedeño, Gabriel E. Pico Mera and Miguel Castro Fernández	62 - Methodological analysis and techno-economic simulation of the bioenergy potential of agricultural waste in Manabí, Ecuador	
14:00 - 14:15	Carmen Luisa Vásquez Stanescu, Luis Aarón Martínez and Renato Andara	93 - Electromobility Markets and Policies in Ibero-America: Progress and Challenges	
14:15 - 14:30	Barbara Teruel, Byron Acuña Acurio, Luiz Carlos Silva and Joao André Pinto Soares	134 - Usinas Agrovoltaicas: Solução Integrada para a Sustentabilidade Energética, Alimentar e Ambiental	
14:30 - 14:45	Miguel Chen Austin, Mileyka Bustamante, Dafni Mora, Félix Henríquez, Luis Aarón Martínez and Jesús C. Hernandez	24 - Inspection of Land Surface Temperature Estimation Methods contrasted to in-situ Measurements: A Case Study in Panama	
14:45 - 15:00			
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15:15 - 16:00	Almuerzo		
16:00	Fin de actividades		
Miercoles 12 de noviembre			
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Hora (UTC-6)	Participantes	Artículo / Panel	Track
7:50 - 8:00	Bienvenida		
8:00 - 8:15	Ouiam Fatiha Boukharta, Loïc Sauvé, Francisco Tomatis, Leticia Chico-Santamarta and Luis Manuel Navas Gracia	72 - Urban agriculture in Morocco – A Systematic Review	

8:15 - 8:30	Juan Antonio Rodríguez-Rama, José F. Mediato-Arribas, Rayco Marrero-Díaz, José R. Hernández-Manchado, Antonio Bretones-Villuendas, Evelyn Carrión-Ocaña, Andrea Pérez-Díaz, Iván Moreno-González, Jesús García-Crespo and Teresa Sánchez-García	107 - Geothermal heritage data into digital repositories: the IGME-CSIC case study	Gobernanza y Social sustainability Track Chair: Susana Gómez
8:30 - 8:45	Mailyn Moreno-Espino, Jorge Alberto Pachecho-Sernard, Yahima Hadfeg-Fernández, Gerardo Acevedo-Sánchez, Nayma Cepero-Pérez and Cornelio Yáñez-Márquez	43 - Data Literacy for Smart Governance: An Educational-Analytical Framework for Ibero-American Cities	
8:45 - 9:00	Gina Maestre-Gongora, Diana López, Fernando Osorio Giraldo, Osvaldo Cifuentes Restrepo, Juan Aragon-Mendoza and Myriam Patricia Cifuentes	69 - Implementing data governance programs in a Colombian public institution	
9:00 - 9:15	Francisco Tomatis, Francisco Javier Diez, Adriana Correa-Guimaraes and Luis Manuel Navas Gracia	76 - Artificial Neural Networks for Temperature Prediction in Urban Gardens Using Data from Grey Urban Spaces in Valladolid, Spain.	
9:15 - 9:30	Esteban Paul Louis Nicolas, Gilberto Lorenzo Martínez Luna and Adolfo Guzmán Arenas	71 - Identificación y análisis de factores relevantes del desempeño en matemáticas en México con datos PISA 2012	
9:30 - 9:45	Fredi Portilla Farfán, Paola Duque-Sarango, María José Quizhpi Pintado and Tania Alexandra Sarango Guamán	14 - Urban Agriculture with an IAR-FAO Approach During COVID-19: A Socio-Educational Strategy from Cuenca, Ecuador	
9:45 - 10:00	Susana Gómez, Raúl Maján Navalón and Lilian Johanna Obregón	132 - Landscapes of memory and sustainable education in rural contexts: a STEAM learning project around hydraulic mills	
10:00 - 10:15	Miroslaba Taide Bautista Flores and Ryszard Edward Rozga Luter	50 - El marco de las Ciudades Inteligentes como un reforzamiento de la Cohesión Urbana Inclusiva	
10:15 - 10:30	Receso para café		
10:30 - 10:45	Hector Felipe Mateo Romero, Luis Hernandez Callejo, Miguel Angel González Rebollo, Oscar Martinez Sacristan, Alberto Redondo Plaza, Ghada Amami and Víctor Alonso Gómez	5 - Enhancing Solar Energy Research: A Database Approach for Photovoltaic Laboratories	Urban informatics, Big Data, data management, analytics and artificial intelligence for smart cities Track Chair: Diego Rossit
10:45 - 11:00	Dario Benavides, Paul Arévalo, Alberto Ríos, Leonardo Torres and Danny Ochoa-Correa	6 - Smart meter based on demand forecasting for real-time architecture	
11:00 - 11:15	Gabriel Silva	16 - Quantum-enhanced optimization of AV-Drone fleets for urban last-mile logistics	
11:15 - 11:30	Alfonso Valenzuela-Aguilera	44 - AI Applied to Real Estate Markets: Predictive Models, Advanced Valuation, and Urban Economics	
11:30 - 11:45	Jose Maria Celaya Padilla, Hamurabi Gamboa-Rosales, Rafael Reveles-Martínez, Javier Saldivar Pérez, Jorge I. Galván-Tejada, Huizilopoztli Luna-García, Selene Castañeda-Burciaga, Martha Angélica Ramírez-Salazar, Carlos Eric Galván Tejada and Juan R. Delgado-Contreras	54 - Fast and Robust Lane Detection for Autonomous Car 1:10, A CNN-Based Approach	
11:45 - 12:00	Liana Leiva Romero, José Alberto Hernández, Outmane Oubram, Pedro Moreno-Bernal, Gustavo Medina-Angel, Ponciano Jorge Escamilla-Ambrosio and Jesús Del Carmen Peralta Abarca	61 - Classification of avocado leaves into healthy and unhealthy by computer vision and deep learning	
12:00 - 12:15	Augusto Velasquez Mendez, Tito Pablo Neira Avila, Jorge de Jesús Lozoya Santos and José Fernando Jiménez Vargas	64 - Data Strategy as a Value Enabler in Sustainable, Smart, and Circular Cities	

12:15 - 12:30	Josefina Cardozo and Sergio Nesmachnow	73 - Neural networks for modeling and predicting pollution in urban environments	Urban informatics, Big Data, data management, analytics and artificial intelligence for smart cities Track Chair: Carlos Torres
12:30 - 12:45	Facundo Locatelli, Sergio Nesmachnow and Carlos López	78 - A Neural Network Approach for Super-resolution of a Digital Elevation Model	
12:45 - 13:00	Receso para café		
13:00 - 13:15	Marta Lafuente Cacho, Oscar Izquierdo-Monge, Paula Peña-Carro, Ángel Hernández-Jiménez and Carlos Barrera-del Amo	87 - Análisis comparativo de métodos predictivos para la completitud de datos en series de producción fotovoltaica: regresión lineal y Gradient Boosting	
13:15 - 13:30	Edelmira Tapia, Pedro Moreno, Sergio Nesmachnow, Carlos Torres-Aguilar, Jesús del Carmen Peralta-Abarca and Jose Alberto Hernández-Aguilar	101 - Estimation model for arrival times in urban public transportation of Cuernavaca using artificial neural networks	
13:30 - 13:45	Luis Antonio Marquez-Carlos, Erika P. Sanchez-Femat, Rafael Reveles-Martinez, Huitzilopoztli Luna-Garcia, Jose Guadalupe Arceo-Olage, Juvenal Villanueva-Maldonado, Juan Ruben Delgado-Contreras, Manuel Alejandro Soto-Murillo, Jorge Isaac Galvan-Tejada and Jose Maria Celaya-Padilla	105 - Traffic sign detection for autonomous driving at 1:10 scale a YOLO approach	
13:45 - 14:00	Edwin Gerardo Acuña Acuña, Juliana Torres Morales, Kelly Johana Salgado Avilez and Aidan Gabriel Pelleya Ramírez	7 - AI-Governed Social Sustainability: Leveraging IoT and Big Data for Inclusive Urban Development	
14:00 - 14:15	Felipe Bonilla-Sánchez, Adrian Cabral Martínez and Elmer Iván Sánchez Rabadan	97 - Artificial Intelligence in Digital Public Policies in Latin America: Tensions, Gaps, and Transferable Lessons	
14:15 - 14:30	Edwin Gerardo Acuña Acuña, Rogelio Joel Bautista García, Katia Ailyn Hernández Gonzalez and Paola Samantha González Chávez	9 - Quantum-Optimized Smart Grids: Enhancing Renewable Energy Distribution with AI and IoT	
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15:15 - 16:00	Almuerzo		
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Hora (UTC-6)	Participantes	Artículo / Panel	Track
7:50 - 8:00	Bienvenida		
8:00 - 8:15	Jesús Del Carmen Peralta-Abarca, Pedro Moreno, José Alberto Hernández-Aguilar, Felipe Bonilla-Sánchez and Diego Rossit	56 - A QR-based traceability system for avocado production in Mexico	Smart Urban Services
8:15 - 8:30	Junior A. Calvo Montañez, Jorge López-Rebollo and Susana Del Pozo	58 - Flood analysis using remote sensing and cloud computing: a WebGIS tool for urban flood management	
8:30 - 8:45	Navila Leon-Tejeda, Edwin Sánchez Camilo, Miguel Aybar-Mejia, Armando J. Taveras-Cruz, Iván Jiménez-Durán and Deyslen Mariano-Hernández	63 - Comparative Forecasting of Hospital Cardiovascular Emergency Demand in the Dominican Republic Using Time Series and Machine Learning Models	
8:45 - 9:00	Diego Rossit, Begoña González Landín, Mariano Frutos and Máximo Méndez Babey	67 - A bi-objective model for the bins allocation and collection routing problem in waste management	

		75 - A multiobjective evolutionary algorithm for the bus stops location problem: optimizing demand coverage, travel times, and operational costs	& Otros desarrollos para Smart Cities
9:00 - 9:15	Santiago Gestal, Santiago López de Haro, Diego Rossit and Sergio Nesmachnow		Track Chair: Diego Rossit
9:15 - 9:30	Carlos Torres-Aguilar, Diego Rossit, Pedro Moreno-Bernal, Sergio Nesmachnow, Edgar Vicente Macias Melo and Karla María Aguilar Castro	95 - Optimizing solar chimney configuration considering cost, quality of service and carbon footprint	
9:30 - 9:45	Leonardo Cardinale-Villalobos, Efrén Jimenez-Delgado and Magaly Segura-Arias	90 - Improving AI imaging models for a Multimodal Photovoltaic fault detection system	
9:45 - 10:00	Carmen Luisa Vásquez Stanesco, Rodrigo Ramírez-Pisco, Luís Manuel Navas and María Teresa Batista	99 - Policies towards zero-emission maritime port infrastructure and buildings	
10:00 - 10:15	Gustavo Medina-Ángel and Gennadiy Burlak	126 - Clustering Algorithm for Crack Detection on 2D Surfaces: Analysis of Its Dependence on Simulated Surface Size	
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