

## Martes 12 de noviembre

### Auditorio Principal (CTEC)

Enlace público en general: <https://www.youtube.com/playlist?list=PLIPXhVPKZFTyDXWTSqo9LOVJTBLTKu-g>

Enlace para ponentes: <https://itcr.zoom.us/j/86968344812>

Hora (UTC-6)	Participantes	Artículo / Panel	Track
7:30 - 8:00	<b>Registro de participantes</b>		
8:00 - 8:40	Inauguración: Ronny Rodríguez, Luis Hernández Callejo, Jose Luis Leon, Oscar López, Leonardo Cardinale		
8:40 - 8:55	Duque, Zhingre, Montero, Amaya, Pinos	7. Inactivation of E. coli using ZnO and UV-LED technology: A promising approach for water treatment	Energy Efficiency and Sustainability  Track Chair: Carlos Torres Aguilar
8:55 - 9:10	Wang	31. Benchmarking Building Energy Efficiency with Bayesian Regression on Incomplete Data	
9:10 - 9:25	Alcántara, Rincón, Mercedes, Méndez, Ruiz, Aybar Mariano	46. Comparative Analysis of Different Passive Technologies for Improving the Energy Performance of Buildings	
9:25 - 9:40	Aguilar, Torres, Macias, García, Torres, Hernández, Serrano	94. Parabolic cylinder collector for roasting cocoa beans	
9:40 - 9:55	Murcia, Correa, Hernández, Alonso, Navas	96. Life Cycle Assessment of Photovoltaic Glass in Greenhouse Systems: Environmental Trade-offs Between Energy Generation and Material Production	
9:55 - 10:10	Dittmann, Tosello, Meza, Sanchez, Klein, Thalmann, Tischew	98. The Energy Transition of a University Campus through Photovoltaic and Battery Storage Systems	
10:10 - 10:30	<b>Receso</b>		
10:30 - 10:45	Vásquez, Batista, Ramirez	115. Alternatives to reduce the carbon footprint of port operations in LNG terminals	Energy Efficiency and Sustainability  Track Chair: Carlos Torres Aguilar
10:45 - 11:00	Piantanida, Pilar, Vottari	128. From Modules to Communities: Fostering Flexibility and Aggregation in School Infrastructure for Sustainable Smart Territories	
11:00 - 11:15	Carbono, Gómez, Sanchez, Ospino, Mantilla, Alonso	48. Spectral analysis for anticipating critical failures in lithium-ion batteries spectral analysis for anticipating critical failures in lithium-ion batteries: a wavelet approach	
11:15 - 11:40	Carlos Cordero Vega	Descarbonización e infraestructura sostenible	
11:40 - 12:30	Panel de Discusión. Transición Energética de las Smart Cities. Retos y tendencias. Ronny Rodríguez, Donald Hidalgo, Luis Hernández Callejo, Alexandra Arias Alvarado		
12:30 - 13:30	<b>Almuerzo</b>		
13:30 - 13:55	Luis Mastroeni	Cooperativismo Inteligente	
13:55 - 14:20	Charla INS	INS	
14:20 - 14:35	Fayyaz, Zafar, Wasim, Shoaib, Ahad, Nunes, Coelh, Pires	6. Cricket Score Prediction using Machine Learning Techniques	IoT and ubiquitous devices  Track Chair: José Alberto Hernández
14:35 - 14:50	Silva, Umaña, Nuño	18. The competitiveness of the Internet of Things to drive efficiency in public healthcare	
14:50 - 15:05	Murillo, Meza, Calderón	29. Distributed detection algorithm for photo-voltaic solar arrays based on least significant difference test	
15:05 - 15:20	Lara, Ruzicka, Rodriguez, Quesada	113. A Home Assistant-based Platform for Ambient Intelligence in Smart Buildings	
15:20 - 15:35	Cardinale, Murillo, Brénes	83. Low-cost IoT system to detect suboptimal conditions in PV arrays	
15:35 - 15:55	<b>Receso</b>		
15:55 - 16:10	Bernal, Muñoz, Paz, Galán	40. Coordinated tuning of STATCOM-POD controllers using PSO and NBA: a case study in DigSILENT PowerFactory	Energy  Track Chair: Víctor Alonso Gómez
16:10 - 16:25	Morales, Hernández, Alonso, Redondo, de Almeida, Araujo	45. One Diode model intrinsic parameter extraction from solar module dark I/V curves with low computational cost	
16:25 - 16:40	Del Ángel, Morales, Tejeda, Arenas	51. Modelling and validation of the pine pellet gasification process in a downdraft fluidised bed reactor using the application of free-to-use software	
16:40 - 16:55	García, Alonso, Aguilar, de Godos	52. Renewable Communities Combining Anaerobic Digestion and Solar Energy: A Case Study in the Province of Soria (Spain)	
16:55 - 17:10	Aguilar, Islas, Velázquez, Ríos, Cásares, Suástegui, Gámez, Pérez	62. Technical and Economic Analysis of an Off-Grid Microgrid with Solar PV and Battery Storage: A Case Study for Rural Communities in Mexico	
17:10 - 17:25	Ríos, Velázquez, Aguilar, Islas, Bejarano, Rojas	65. Performance evaluation of an earth-water heat exchanger integrated to a solar absorption cooling system	
17:25 - 17:40	Jimenez, Rodriguez	79. Strategy against energy poverty: analysis of the ventilation potential of a ground-air heat exchanger	
17:40 - 17:55	Risso, Nesmachnow, Porteiro, Vignolo, Sierra, Ibarburu	93. A Mixed Combinatorial Optimization model for the Río Negro Hydroelectric Complex	
17:55 - 18:10	Irurtia, Porteiro, Ibarburu	95. Direct demand side management of residential electric water heaters in Uruguay's electric grid	
18:10	<b>Fin de actividades</b>		

## Aula Tecnoaulas

Enlace público en general: <https://www.youtube.com/playlist?list=PLIPXhVPKZFTyDXWTsqo9L0VJTABTKu-g>

Enlace para ponentes: <https://itcr.zoom.us/j/86968344812>

Hora (UTC-6)	Participantes	Artículo / Panel	Track
11:15 - 11:30	Muraña, Nesmachnow, Durillo	101. WGAN to augment tabular energy consumption data of high performance computing nodes	Energy Efficiency and Sustainability  Track Chair: Diego Rossit
11:30 - 11:45	Ponce, Moreano, Rus, Segovia	69. Smart Cities Strategies: Data-Driven Urban Energy Transition Using QGIS Heat Maps to Foster Photovoltaic Micro-Generation in Manta, Ecuador	
11:45 - 12:00	Alchapar, Giancola, Pérez, Pezzuto	72. Facade Construction Technologies and Their Impact on the Urban Microclimate: A Comparative Study between the Cities of Madrid and Mendoza	
12:00 - 12:15	Torres	75. Reliability, Availability and Maintainability Analysis for Grid-Connected Solar Photovoltaic Systems	
12:15 - 12:30	Torres, Moreno, Nesmachnow, Rossit, Aguilar, Macias	76. Regression analysis for prediction of solar chimney performance	
12:30 - 13:30	<b>Almuerzo</b>		
13:30 - 13:45	Islas, Velázquez, Aguilar, Ríos, Gámez, Pérez	87. Optimization of a Fixed-Focus Scheffler Dish with Dual-Axis Tracking System for Solar Concentration in Northwestern Mexico	Energy Efficiency and Sustainability
13:45 - 14:00	Flores, Lara, Hernández, Guerrero, Sotelo	90. Sustainable management of urban solid waste in smart cities for energy generation and carbon credits	
14:00 - 14:15	Redondo, Kupolati, Ndeti, Morales, Alonso, Njoroge, Hernández	10. Passive Electroluminescence and Photoluminescence in Photovoltaic Modules: Synchronous and Asynchronous Lock-In Approaches	Track Chair: Diego Rossit
14:15	<b>Fin de actividades en Tecnoaulas</b>		

## Miércoles 13 de noviembre

### Auditorio Principal (CTEC)

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Enlace para ponentes: <https://itcr.zoom.us/j/86968344812>

Hora (UTC-6)	Participantes	Artículo / Panel	Track
8:00 - 8:10	<b>Bienvenida</b>		
8:10 - 8:25	Díaz, Grisales, Cortés, Guzmán, Bolaños, Montoya, Hernandez	92. Operación inteligente de sistemas de generación fotovoltaicos en microrredes eléctricas aisladas de corriente alterna para reducción de costos y mejora de condiciones operativas	Electric systems  Track Chair: Joao André Pinto Soares
8:25 - 8:40	Rojas, Baier, Marciel, França, Hernandez	102. H-Bridge Cell Fault Clearing Algorithm for Cascaded Multilevel Converter Operating as Grid-Forming Inverter	
8:40 - 8:55	Monteiro, Couto, Abud, França, Hernandez	114. Phase commutation strategy to mitigate overvoltage in distribution networks with high photovoltaic penetration	
8:55 - 9:10	De León, Tzoc, Medinilla, Hernandez	122. Implementación de microrredes con componentes solares y de baterías en zonas rurales en Guatemala	
9:10 - 9:25	Serra, Esteban, Mezzano, Baier, Espinoza, Montoya	28. IDA-PBC controller design for grid-connected Quasi-Z-Source Three-Phase Inverter	
9:25 - 9:40	Silva, Dias, Bandória, de Almeida, Hernandez	38. Clustering of real load curves at a public university: Steps towards a sustainable campus	
9:40 - 9:55	Marciel, Baier, Rojas, Quinteros, Esteban	60. Single-phase Cascaded Multilevel Inverter Operating as a Grid Forming Converter under dVOC Control using SOGI Strategy	
9:55 - 10:10	Castelan, Beltran, Rivas, Hernandez	68. Water Level Control in Small-Scale Hydroelectric Plants Using Differential Flatness	
10:10 - 10:30	<b>Receso</b>		
10:30 - 11:10	Leandro Camacho, The AI Humans	Los humanos digitales y el futuro del trabajo	
11:10 - 12:00	Panel de Discusión. ¿Que tanto se está aplicando IA en los negocios?. Yoselyn Walsh, Michael Ballester, Jose Alberto Hernández, Efraín Ortíz		
12:00 - 12:35	Licdo. Manuel Emilio Chavarría Araya	Inteligencia Artificial, aplicada a los negocios KOLBI	
12:35 - 13:35	<b>Almuerzo</b>		
13:35 - 14:15	Rodrigo Herrera, Co-Fundador y Chief Technology Officer (CTO) de Ainnovatech.	El Poder Transformador de la Inteligencia Artificial en el Mundo Empresarial	
14:15 - 14:55	Michael Ballester, Productivity Strategy & AI Mentor	Casos de éxito con IA. Coffee analytic (Mercadeo, comercialización)	
14:55 - 15:10	Vidal, Bibiloni, de Miguel, Martínez, Moia, Canals	91. Modelado de la Red Eléctrica de Mallorca y Evaluación del Impacto de las Fuentes Renovables en el 2030	Electric systems & Real-world experiences Track Chair: Francisco J. Sanchez Sutil
15:10 - 15:25	Almeida, Soares, Aliyan, Limmer, Faia, Ramos	127. Fairness Index Analysis in Local Energy Communities Considering Electric Vehicles and Energy Storage	
15:25 - 15:45	<b>Receso</b>		

15:45 - 16:00	Andrade, Rodriguez, Garcia, Diaz, Irizarry	30. Personal Microgrid concept according with the Puerto Rico Microgrid Rule - Comparative Analysis	Electric systems & Real-world experiences Track Chair: Francisco J. Sanchez Sutil
16:00 - 16:15	Jiménez, Sánchez, Fernández, Rus, Hernandez, Muñoz	41. Analysing the Performance of Electricity Generation through PV Rooftop Systems in Food Industry Facilities	
16:15 - 16:30	Nesmachnow, Risso	3. Wind power generation forecasting: a real-world nation-wide case study in Uruguay	Artificial Intelligence for Smart Cities & Urban Informatics, Big Data, Data Management and Analytics  Track Chair: Ponciano Jorge Escamilla
16:30 - 16:45	Pallavi, Joshi	4. Leveraging AI Techniques for an Efficient Approach to Smart City Planning and Maintenance	
16:45 - 17:00	Nesmachnow, Goñi, Tchernykh	25. Design of Content Distribution Networks for smart cities	
17:00 - 17:15	Hernández, Hernández, Ortiz, García, Bonilla, Peralta	123. Intelligent Student Counting System Tolerant to Occlusions based on Convolutional Neural Networks	
17:15 - 17:30	Nesmachnow, Moreno	2. A computational intelligence approach for car damage assessment	
17:30 - 17:45	Sanchez, Jiménez, Aybar, Mariano	77. The Challenges of Citizen Participation in the Development of Citizen-centered Smart Cities: Lessons Learnt from two European initiatives	
17:45 - 18:00	Acuña, Almanza, García, Calderón, Pérez, Rojo	12. Optimization of Urban Mobility with IoT and Big Data: Technology for the Information and Knowledge Society in Industry 5.0	
18:00 - 18:15	Flores, Arévalo, Pocasangre, Mejia, Marmol	66. Geothermal Heat Flux Mapping using Satellite Remote Sensing, Case studies in the Hot Springs of El Salvador: San Vicente, Ahuachapan, San Miguel & La Union	
18:15	<b>Fin de actividades en auditorio</b>		
<b>Aula Tecnoaulas</b>			
Enlace público en general: <a href="https://www.youtube.com/playlist?list=PLIPXhVPKZFTyDXWTsgo9L0VJTABLTku-q">https://www.youtube.com/playlist?list=PLIPXhVPKZFTyDXWTsgo9L0VJTABLTku-q</a>			
Enlace para ponentes: <a href="https://itcr.zoom.us/j/86968344812">https://itcr.zoom.us/j/86968344812</a>			
Hora (UTC-6)	Participantes	Artículo / Panel	Track
10:30 - 10:45	Cámara, Sánchez, Cano, Hernandez, Ruzafa, Espinosa	32. Monitoring electrical parameters inside of PV inverters	Electric systems  Track Chair: Carlos Rodrigo Baier Fuentes
10:45 - 11:00	Ruzafa, Cano, Sánchez, Hernandez, Baier	33. Design and implementation of DC meter for PV plants	
11:00 - 11:15	Castro, Canizes, Soares, Hernandez, Vale	47. Analyzing Economic Impacts of Variable Discount Rates on Medium Voltage Distribution Network Planning: A Sensitivity Analysis considering Global Perspectives	
11:15 - 11:30	Montoya, Serra, Esteban, Gil, Hernandez	49. A Backstepping Control Design for Output Voltage Regulation in an Unknown Linear Load Interfaced through a Buck DC-DC Converter	
11:30 - 11:45	Espinosa, Figueroa, Lizana, Ramirez, Melin, Baier, Serra	53. Three-phase VSI operated by FCS – MPC with efficient steady-state and transient behavior	
11:45 - 12:00	Gil, Montoya, Hernandez	55. Optimizing Household Appliance Usage to Minimize Energy Expenses: A Demand Management Approach	
12:00 - 12:15	Baier, Serra, Aybar, Espinosa, Melin, Hernandez	57. Non-Linear Control Strategy for a Bidirectional DC-DC Converter in an Energy Storage System Operating in Conjunction with a Grid-Forming Inverter	
12:15 - 12:30	Quintal, Puc, Flota, Hernandez	67. Voltage stability in the WSCC power system for large scale integration of renewable energy	
12:35 - 13:35	<b>Almuerzo</b>		
13:35 - 13:50	Ariza, Martinez, Ruiz, Vela, Castillo	70. Deep energy retrofit of office buildings with the aim of reaching an NZEB performance level in a tropical context	Electric systems  Track Chair: Bruno Miguel Rocha Canizes
13:50 - 14:05	Volpe, Silveira, Weschenfelder, Hernandez	73. Big data quality processing model applied to predictive maintenance strategies for wind farms	
14:05 - 14:20	Nivia, Montoya, Gil, Serra, Hernandez	81. A PI-PBC Method for Voltage Support Using a PWM-CSC with Adaptive Load Estimation	
14:20 - 14:35	Terrero, Ocaña, Santos, Aybar	82. Hybridization of Renewable Energy Sources with Pumped Hydroelectric for Energy System Stability	
14:35 - 14:50	Cardoso da Silva, Do Nascimento, González, de Almeida	89. Evaluating the Social Impact of Electrical Vehicle Towards a Sustainability Transition: A Critical Analysis of Tesla, BYD, and EU environment reports	
14:50	<b>Fin de actividades en Tecnoaulas</b>		

## Jueves 14 de noviembre

### Auditorio Principal (CTEC)

Enlace público en general: <https://www.youtube.com/playlist?list=PLIPXhVPKZFTyDXWTsqo9L0VJTABTKu-g>

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Hora (UTC-6)	Participantes	Artículo / Panel	Track
8:00 - 8:10	<b>Bienvenida</b>		
8:10 - 8:25	Díaz Sarachaga	8. Smart Urban Governance: The Baseline for Governing Future Cities	Governance and Citizenship  Track Chair: Luis Manuel Navas Gracia
8:25 - 8:40	Juárez Merino	15. Análisis Comparativo del Gobierno Digital en Ciudad de México y Buenos Aires	
8:40 - 8:55	Guerra, Perez, Juárez	35. A reference model for the formulation of citizen science projects	
8:55 - 9:10	Boukharta, Navas, Chico	100. Examination of citizens' perceptions towards urban agriculture and its contribution to food security–worldwide and two cases evaluated in Spain	
9:10 - 9:25	Astroza, Jusakos	106. Tecnologías para la Equidad Global: Un Enfoque desde la Agrupación Vecinal, la IA y la IoT	
9:25 - 9:40	Hernandez, Martinez, Muñiz, Guzman, Porcayo , Escamilla	121. FREM: Information Extraction System for Generating Phytosanitary Risk Alerts	
9:40 - 9:55	Velasquez, Lozoya, Jimenez	124. Assessing Smart Cities in Developing Countries: Multi-dimensional Approaches	
9:55 - 10:10	Landa, Gonzalez, Urrea	56. The Challenges of Citizen Participation in the Development of Citizen-centered Smart Cities: Lessons Learnt from two European initiatives	
10:10 - 10:30	<b>Receso</b>		
10:30 - 10:45	Valle, Ramirez	59. Activismo urbano y ciudadanía inteligente en San José, Costa Rica: la tecnología cívica al servicio de la transformación del espacio público entre el 2012 y el 2022	Governance and Citizenship  Track Chair: Luis Manuel Navas Gracia
10:45 - 11:00	Leandro-Elizondo	61. A SYSTEMIC PERSPECTIVE ON EDUCATION 3.0: NAVIGATING 4TH INDUSTRIAL ERA AND NURTURING EMERGING DIGITAL COMPETENCIES – STUDY CASES ON UNIVERSITY-BUSINESS STRATEGIC ALLIANCES	
11:00 - 11:15	Soutullo, Seco, Sánchez, Bukovszki, Andreucci, Semprini, Pignatta, Lima, Ashrafian, Montagnino, Etminan, Vettorato	71. A Qualitative Methodology for Identifying Governance Challenges and Solutions in European Positive Energy Labs	
11:15 - 11:40	Sebastián Urbina Cañas, Genpact	Movilidad Inteligente	
11:40 - 12:30	Panel de Discusión. Ciberseguridad. Paula Brenes, Herson Esquivel Vargas, Gezer Molina Colomer, Randall Vargas Villalobos		
12:30 - 13:30	<b>Almuerzo</b>		
13:30 - 13:55	Luis Carlos Trujillo Arboleda	Internet of Things (IoT)	
13:55 - 14:20	Edward Herrera Barrantes, Coopesca	Redes Neutras	
14:20 - 14:35	De La Cruz, Estrada, Martínez, Pliego, Clemente	111. Modeling Vehicular Flow Using an Approach Based on the Navier-Stokes Equations	Smart Mobility Track Chair: Carlos Torres Aguilar
14:35 - 14:50	Garcia, Villafila, Codina	58. Comparison of charging infrastructure for electric vehicles in multi-unit residential buildings in Spain	
14:50 - 15:10	<b>Receso</b>		
15:10 - 15:25	Acuña, Araya, Quesada, Espinoza ,Cordero	24. Advanced Ergonomics in Smart Cities: Enhancing Safety and Efficiency in Firefighters' Load Handling	Smart Industry & Other developments for Smart Cities  Track Chair: José Ignacio Morales
15:25 - 15:40	Balladares, Torres, Angeles, Lopez, Ramírez	116. Smart industry solutions: finite element solver comparison for FEM vehicle cabin analysis	
15:40 - 15:55	Holguin, Herrera	103. CIUDADES INTELIGENTES DESDE LA PERSPECTIVA DE LOS SISTEMAS REGIONALES DE INNOVACIÓN	
15:55 - 16:10	Martínez, Caso, Mila, Guzman	99. The other SOTA for DOTA: assessing general object detectors for aerial surveillance	
16:10 - 16:25	Merizalde, Villa, Jaramillo, Villao	21. Smart City Strategies for Playas, Ecuador: A Framework for Transformation	
16:30	<b>Clausura y premiación mejores artículos</b>		

## Aula Tecnoaulas

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Enlace para ponentes: <https://itcr.zoom.us/j/86968344812>

Hora (UTC-6)	Participantes	Artículo / Panel	Track
11:15 - 11:30	Gordienko, Scaletti, Nesmachnow, Toutouh	23. An Evolutionary Approach for Determining Electric Vehicle Charging Infrastructure Location: A Case Study in Montevideo	Smart Public Services (waste management, health, public transportation, etc.)
11:30 - 11:45	Arias, Aparicio, Gonzalez, Melendes, Suarez	37. Water and Heating Saving System Modelling to Meet Urban and Rural Needs in Colombia	
11:45 - 12:00	Monteiro, Fernandes, de Almeida, Henrique	104. Transformação de Escolas Estaduais em Escolas Técnicas: Uma Abordagem na Cidade de São Paulo Através de Programação Inteira	
12:00 - 12:15	Esquivel	105. Transición energética y movilidad inteligente en la ciudad de Cali	Track Chair: Rodrigo Porteiro
12:15 - 12:30	Fuentes, Rivero, Gallegos	108. Lightweight Consensus Cryptographic Protocol for Biosignal Monitoring in Wireless Body Area Networks	
12:30 - 13:30	<b>Almuerzo</b>		
13:30 - 13:45	Caro, Rossit, Santiviago, Ferreira, Nesmachnow	17. Multi-objective optimization for the operation of a physicochemical phosphorus removal system	Smart Environment
13:45 - 14:00	Porcayo, Martinez, León, Guzmán, Hernandez, Escamilla	112. ZREM: sistema de extracción de noticias para el Monitoreo Nacional e Internacional de Amenazas Zoonositarias	
14:00 - 14:15	Vera, Moreira, Loor, Loor Vera	84. Inclusive home automation system with visual and haptic signals for homes of people with hearing disabilities	Track Chair: Gilberto Martínez
14:15	<b>Fin de actividades en Tecnoaulas</b>		

## Sesión de pósters & ponencias en video

<https://www.youtube.com/playlist?list=PLIPXhVPKZFTyDXWTsqo9L0VJTABTKu-q>

Autores	Artículo	Tipo
Mateo, Morales, Hernández, González, Cardeñoso, Alonso, Ahatsi, García	26. Novel Convolutional Neural Network Model for Estimating Series Resistance in PV Cells by predicting I-V Curve Slopes on Electroluminescence Images	Ponencias grabadas
Oliveira, Hernández, Sodr�, Mancebo	27. Economic Analysis of a Hybrid Wind-Solar System for Electric Vehicle Supply in Brazil	
Medina, Burlak, Mart�nez, Bonilla, Moreno, de-la-Cruz, Hern�ndez	80. Intrusion detection system through mobile notifications using the Internet of Things	
Peralta, Moreno, Hern�ndez, Le�n	107. A traceability system with Industry 4.0: continuous improvement in a manufacturing plant in Mexico	
Redondo, Pe�a, Alonso, Izquierdo, Hern�ndez	11. Carbon Footprint Analysis of CEDER Microgrid	
Maj�n, Romero, Soto, Sanz, Lozano, Rodr�guez	97. Pilot Proposal for Curriculum Adaptation Using AI and Big Data in Vulnerable Communities for CINJUDESCO and Attention Deficit Hyperactivity Disorder (ADHD)	
C�mara, S�nchez, Cano, Hern�ndez, Ruzafa, Franca	34. Controlling electrical measurement devices with cloud integration	P�sters
Serdaou, Cherkaoui	1. The Role of the Digital Revolution and the Industry 4.0 in the Global Outreach of the Traditional Crafts: Literature Review	
Naz, Munawar, Ali, Pires, Coelho	5. Transforming Urban Parking: An IoT-Enabled Parking Solution for Smart Cities	
Acu�a	13. The Impact of Smart Grids and Energy Sustainability on Urban Development	
Acu�a	14. Impacts of 5G on Cybersecurity in Smart Critical Infrastructure	
Izquierdo, Lafuente, Hern�ndez, Pe�a, Palomares, Zorita	16. Solar and wind energy forecasting methods: state of art	
Avila	20. Experiencias de aprendizaje sobre las smart cities desde la sostenibilidad medioambiental arquitect�nica	
L�pez, Berrios, Tapia, Tinoco, El Marriachet, Raya	36. Locating charging stations for electric vehicles in Morelia, Mexico	
L�pez, Chica�za, Ort�z	39. Metodolog�a para identificaci�n de asbesto en entornos urbanos a trav�s de im�genes satelitales y a�reas	
Acosta, Gomez, Trujillo, Pavlich, Ortiz, Velasco	42. Motorcycle monitoring system -SiMM for dealerships	
Villalobos	43. Kuarc: Innovaci�n en la Colaboraci�n Social y Empresarial para Ciudades Inteligentes y Sostenibles	
Sotto, Cerquera, Acosta, Ardila, Polania, Navas	50. FLUID HANDLING AND CIVIL STRUCTURE IN A MINI-HYDROELECTRIC POWER PLANT PROJECT IN AN IRRIGATION DISTRICT IN COLOMBIA	
Mirez	54. Estimation of the best time of year for maintenance of an onshore wind farm using time series	
Ramirez, Vasquez, Navas, Batista	64. Sustainability Model for Zero-Emission Homes in Ibero-America in the Framework of the Energy Transition	
Mendoza, S�nchez, Rojas	74. Design of a solar array simulator for an integrated power test system on CubeSats	

Díaz	78. An overview of power train types and market share for passenger cars on the modernization of the transport sector	
Pérez, Gámez, Islas, Aguilar, Velázquez	85. Proposal and evaluation of a solar tracking system based on equations applied to photothermal and photovoltaic solar systems	
Cervantes, López	86. Implementation of an energy and environmental management system for the optimization of a production process	
Cardinale, Sánchez, Montero, Echeverria, Mendez, Murillo	88. First Agrivoltaic Facility in Costa Rica: exploring synergies between clean energy and crop production in tropical conditions	
Pinargote, Zambranos, Alava, Basurto	109. Early Labor Detection System in Swine Herds Using Convolutional Neural Networks and LSTM Techniques	
Escamilla, Alcaraz, Martinez	119. Comparison of Time Series Models of Solar Photovoltaic Electricity Generation in North of Mexico City	
Escamilla, Martinez, Kinani, Rosales, Ortiz	126. Development of an Internet of Things Platform for Air Pollution Monitoring in Smart Cities	