Thursday, November 26th. Biblioteca

09:00 - 09:15	**Dr. Juan Humberto Sossa Azuela** **Conferencia Magistral** **Biblioteca**
09:15 - 09: 30	
09:30 - 09:45	
09:45 - 10:00	**Break**
10:00 - 10:15	**Design and Integration of an Omnidirectional Mobile Robot for Hospital Logistics Assistance.** José Martin Vázquez Galindo, Andrés Blanco Ortega, Javier Uriarte Flores, Erik Rosado Tamariz, César H. Guzmán Valdiva and Juan Manuel Valladares Ortiz.
10:15 - 10:30	**Design of a Differential Flatness-Based ADRC Control Scheme for a SUAVI-Type Tilt-Wing** Victor G. Sánchez-Meza, Alberto Luviano-Juárez, Norma Lozada-Castillo and Edgar Ponce-Castellanos. UAV
10:30 - 10:45	**Forward Kinematics of Serial Robots Using Screw Theory** Arturo Antonio Muñoz-Flores, Ricardo Álvarez-Salas, Antonio Cardenas, Luis Alberto Gonzalez-Murillo, Hector Mendez-Azua and Emilio Jorge Gonzalez-Galvan.
10:45 - 11:00	**Design and Experimental Validation of an Outdoor Leader–Follower Drone System Using RTK-GNSS and ROS 2** Derek Salinas, Alejandro Aceves Lopez, Virgilio Vasquez Lopez and Martin Rogelio Bustamante-Bello.
11:00 - 11:15	**X-in-the-Loop (XiL) Platform for DC Motor Control: A Didactic Approach** Daan Yael Maldonado Uriostigue, Aldo Ochoa Morales, Roberto Giovanni Ramírez Chavarría and Lizeth Torres.
11:15 - 11.30	**Gain-Scheduling Consensus Control for Leader-Follower Multi-Agent Systems Conformed of Ackermann-Steered UGVs** Emilliano Peña Chang, Arturo D. Espinosa Pedroza, Jesus A. Vazquez Trejo, José F. Guerrero-Castellanos, Dryden G. Estrada Téllez and Manuel Adam-Medina.
11: 30 - 12:00	**Break**
12:00 - 12:15	**Development of a surrogate model for a Francis turbine runner based on a CFD-driven artificial neural network** Sergio Galván-González, Ángel Cerriteño-Sánchez, Tania Arispe-Angulo, Giovanni Delgado-Sánchez, Francisco Domínguez-Mota and Michel J Cervantes.
12:15 - 12:30	**Passive Misalignment Compensation of Assistive Forces in Exoskeleton for Ergonomic Upper-Limb Assisted Rehabilitation** Luis Felipe Picón Valerio.

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12:30 - 12:45	**Hierarchical-Based Regulation Control for the Bipolar Voltage of the "DC/DC Boost Converter–Full-Bridge Buck Inverter" System** Eduardo Hernández-Márquez, Adrián Jared Omaña-Butrón, Jonathan Miguel Martínez-Santos, J. Martín Alba-Martínez, Benjamin Natanael Santiago-Nogales, Ramón Silva-Ortigoza, Magdalena Marciano-Melchor, Rosalba Galván-Guerra and José Rafael García-Sánchez.
12:45 - 13:00	**Decision-Making Strategy for Early Wildfire Detection Using MEMS Sensors** Jose-Manuel Conde-Bello, Margarita Tecpoyotl-Torres, Sahiril-Fernanda Rodriguez-Fuentes, Armando Huicochea-Rodriguez, Jose-Luis Olvera-Cervantes and Pedro Vargas-Chablé.
13:00 - 13:15	**Sensorless Sliding Mode Angular Speed Tracking Control of a Photovoltaic-Fed DC/DC Buck Converter–DC Motor System** Rogelio Ernesto García-Chávez, Ramón Silva-Ortigoza, Adrián Jared Omaña-Butrón, Magdalena Marciano-Melchor, Ángel Adrián Orta-Quintana, Erik Reyes-Reyes and Rocío García-Cortés.
13:15 - 13:30	**Automated Long-Term Electricity Demand Forecasting under Electric Vehicle Adoption Scenarios in Mexico** José Daniel Morcillo Bastidas, Angélica Jazmín Treviño Villanueva, Alexa Carolina Zambrano Martínez and Leonardo Said González Elizondo.
13:30 - 13:45	**Modified ADRC for Improved Disturbance Rejection in DC Servomechanisms** Juan Quecan-Herrera, Ruben Garrido and Hebertt Sira-Ramirez.
13:45 - 14:00	**A Hybrid Firefly Clustering Approach Employing a Selective Exploration Metaheuristic for Intelligent Data Analysis** Brisa del Carmen Gines Palestino, Martha Patricia González Leyva, Sinuhé Ginés Palestino, Daniel Montalvo Salinas, Consuelo Gines Palestino and Ruby Sheila Gines Palestino.