

## CONFERENCIAS TÉCNICAS

### SALÓN GAUSS

**Python-based Computer Vision for Non-Intrusive River Level Measurement**  
(F. Machado, et.al.)  
09:00 a.m.

**Blockchain and NFTs as Secure and Reliable Tools for Academic Certificates Verification**  
(G. Calderon)  
09:45 a.m.

10:30 a.m. | Coffee Break

**Dead-Time Rejection in Back-to-Back Converters for Wind Energy Conversion System Applications**  
(D. Memije, et.al.)  
11:00 a.m.

**Practical Considerations for Design and Assessment of Corrosion in Electric Substations and Transmission Lines - Standards and Methodological Perspectives**  
(G.A. Salloum S.)  
11:45 a.m.

12:30 p.m. | Almuerzo

**The Fourth Industrial Revolution and Disruptive Technologies**  
(M.Cardona, et.al.)  
02:00 p.m.

**Augmented Reality Application for Familiarization and Knowledge Evaluation of the Siemens Laboratory's Level and Temperature Plant at the University of Cauca**  
(Angel Arturo, et.al.)  
02:45 p.m.

03:30 p.m. | Coffee Break

**PSO Tuner and Swarm Robotics Toolbox - Software Tools for Swarm Robotics Applications**  
(E. Santizo, et.al.)  
4:00 p.m.

### SALÓN FARADAY

**Modbus TCP Bridging for Interconnecting Non-compatible Devices in the Energy Sector Using Node-RED and Edge Computing**  
(N. A. Reyes, et. al.)  
09:00 a.m.



10:30 a.m. | Coffee Break

**Comparison of deep learning technologies applied to the recognition of defects in cocoa beans**  
(R.Espinal-Lanza, et.al.)  
11:00 a.m.

**Power Quality Standards and Regulations in El Salvador: Harmonics and Flicker**  
(J. Ramos, et.al.)  
11:45 a.m.

12:30 p.m. | Almuerzo

**Open Circuit/Eiffel-type Subsonic Low Speed Wind Tunnel (LSWT) conceptual design initial parameters and section losses' analysis for the selection of an adequate and efficient axial fan**  
(B. Escobar B., et.al.)  
02:00 p.m.

**Diagnostic validation of a vital signs monitor prototype with IoT technology**  
(L. Hernandez G., et.al.)  
02:45 p.m.

03:30 p.m. | Coffee Break

**A Practical Methodology for the Generation Expansion Process in Power Systems**  
(L.F. Mejia, et.al.)  
4:00 p.m.

### SALÓN AMPERE

**Implementation of Bimodal probability density function to estimate the wind energy potential in the region of the Isthmus of Tehuantepec**  
(I. G. Ortiz-Jiménez, et.al.)  
09:00 a.m.



10:30 a.m. | Coffee Break

**Articulated Robotic Arm Control System Upgrade Using Low Cost Computer with Computer Vision**  
(K. Kung, et.al.)  
11:00 a.m.

**Invited Conference (PERU) Generative Artificial Intelligence and Foundation Models**  
11:45 a.m.

12:30 p.m. | Almuerzo

**Signal conditioning and Ubuntu-based digitalization of a 720 kg load Compression Testing Machine Measurement System**  
(D.A. Flores, et.al.)  
02:00 p.m.



03:30 p.m. | Coffee Break

**Ubicación óptima de generación distribuida para reducir las pérdidas de energía**  
(B. Camacho, et.al.)  
4:00 p.m.

### SALÓN MAXWELL

**Monitoring of water quality in tilapia farms with IoT technology**  
(K. Medrano, et.al.)  
09:00 a.m.

**KEYNOTE SPEAKER Grid Modernization and the Energy Transition**  
Julio Romero Agüero, Ph.D.  
E.Eng. MBA, SMIEEE | Distinguished Lecture IEEE PES, Quanta Technology, USA  
11:00 a.m.

10:30 a.m. | Coffee Break

**Fault Identification in Electrical Actuators by Autoregressive Models**  
(F.E. Serrano, et.al.)  
11:45 a.m.

**Towards a Smarter CAD: Application of the Integration of Artificial Vision and Neural Networks in Aided Design**  
(M.A. Castro-Rivera, et.al.)  
11:45 a.m.

12:30 p.m. | Almuerzo

**A Deep Learning Based Methodology Development for Fault Classification in Transmission Lines**  
(D. Mora, et.al.)  
11:45 a.m.

**KEYNOTE SPEAKER Reliability and Resilience Improvement of Power Delivery Systems**  
Julio Romero Agüero, Ph.D.  
E.Eng. MBA, SMIEEE | Distinguished Lecture IEEE PES, Quanta Technology, USA  
02:45 p.m.

03:30 p.m. | Coffee Break

**Invited Conference (Departamento de Ciencias Aeronauticas UNAH) La Aeronáutica en Honduras: Estado Actual y Desafíos**  
4:00 p.m.