



## XX International Symposium of Electrical Engineering

# SIE 2023

November 13 – 17, 2023

The Faculty of Electrical Engineering, within the framework of the **IV International Scientific Convention** of the UCLV is pleased to announce the 2nd. Call for the **XX Edition of the International Symposium on Electrical Engineering (SIE 2023)**, to be held from November 13 to 17, 2023 at the Hotel Grand Memories and others tourist destinations of Cayo Santa María but will also be available virtual participations.

### TOPICS



Transmission, Distribution and efficient use of Electric Power

Automation, robotics, and IoT based on technical-productive and social processes



Digital Transformation in the training and improvement of engineers

Electronics and telecommunications in the digital transformation of the society and the business sector



**Web Site:** <http://sie.uclv.edu.cu>

**UCLV Convention:** <https://convencion.uclv.cu/>





## **ORGANIZING COMMITTEE**

### **Organizing Committee President**

Ph. D. Yunier Valeriano Medina (yunier@uclv.edu.cu)

### **Scientific Committee President**

Ph. D. Eduardo Izaguirre Castellanos (izaguirre@uclv.edu.cu)

### **Executive Secretary**

Ph. D. Erik Ortiz Guerra (erik@uclv.edu.cu)

## **COMPLEMENTARY ACTIVITIES**

The convention will hold master conferences, round tables, virtual posters, pre-congress courses, virtual exhibitions, product promotions from co-sponsoring companies, interactive forums, promotional videos, virtual technology fairs; products, services such as engineering solutions and business innovation.

## **TOPICS**

### **Transmission, Distribution and efficient use of Electric Power**

Electrical Machines and Drives, Electrical Power Systems and Distribution Networks, Electrical Protections, Energy Quality, Renewable Energy Systems, Smart Grids, High Voltage Techniques and Electrical Insulation, Industrial Electrical Installations.

**Coordinator:** Ph. D. Ignacio Pérez Abril (iperez@uclv.edu.cu)

### **Automation, robotics, and IoT based on technical-productive and social processes**

Industrial and Biomedical Instrumentation. Measurement and Control Systems. Metrology. Control Theory and Methods. Optimization. Installation Energy, Home Automation, Robotics and Mechatronics, Intelligent Control, Industrial Internet of Things (IIoT). Industrial computing. Algorithms, software and hardware for computer vision. Digital techniques for the processing and analysis of images and signals. Artificial Intelligence for image diagnosis and automation. Transmission, co-registration, compression and optimization of images and digital signals. Pattern recognition in signs and images. Biomedical equipment quality control. Biomedical Applications.

**Coordinator:** Ph.D Alain Martinez Laguardia (amguardia@uclv.edu.cu)



## **Digital Transformation in the training and improvement of engineers**

Use of digital communication technologies in the teaching and educational process focused on innovation. Creation and implementation of knowledge management services in Higher Education. Digital Transformation and Student-Centered Teaching-Learning Methodologies. Flipped Classroom, Telecollaboration, Project-Based Learning, Collaborative Learning and Problem-Based Learning

**Coordinator:** Ph. D. José R. Abreu García (abreu@uclv.edu.cu)

## **Electronics and telecommunications in the digital transformation of the society and the business sector**

Digital transformation in telecommunications and its driving technologies: Internet of Things (IoT), Artificial Intelligence, Edge Computing, Block Chains, Cybersecurity and Broadband Digital Connectivity. Software Defined Networks, Network Function Virtualization, Wireless Sensor Networks, Wireless Networks (Wi-Fi 6, Advanced LTE and 5G), Radio Cognitive Networks, Access and Optical Transport Networks. Radiopropagation, Antennas, Satellite Communications. Electronic Instrumentation, Embedded Systems and SoC, FPGA, Arduino, Digital Signal Processing (Audio and video) and Digital Terrestrial Television.

**Coordinador:** Ph. D. Félix Álvarez Paliza. (fapaliza@uclv.edu.cu)

## **PAPER PRESENTATION**

Papers will be uploaded to the “UCLV 2023” event website, in PDF format, Times New Roman No.12 font, justified alignment, letter size, 1.5 line spacing, 2.5 cm margins on both sides. The maximum length is 15 pages including tables, figures and annexes. The template is available on the official website of the Convention and on the event website: <http://sie.uclv.edu.cu>

## **IMPORTANT DATES AND DEADLINE**

Papers submission deadline	<b>July 25, 2023</b>
Acceptance notification	<b>September 15, 2023</b>
Final version upload/registration	<b>October 6, 2023</b>
Convention date	<b>November 13-17, 2023</b>

## REGISTRATION FEES

Participation modality	Cubans	Other Countries
Delegates	\$ 3000 CUP	\$ 250 USD
Non-presential participants	\$ 500 CUP	\$ 80 USD
Student delegates (*)	\$ 500 CUP	\$ 100 USD
Non-presential students (*)	\$ 250 CUP	\$ 40 USD

(\*) Students must present an official identification certifying them in these categories

The registration fee for nationals includes a Certificate of Participation and publication of the best papers in the journals that will sponsor the event.

The event will be held in morning sessions in the comfortable conference rooms of the **Hotel Grand Memories**, Cayo Santa María. ★★★★★



### Packages for Cuban Delegates

- **Collective Transfer** Santa Clara – Cayo Santa María
- **Collective Transfer** Cayo Santa María – Santa Clara
- **Registration**

**2 Nights** in the *Hotel Grand Memories*  
Double Room: 16 820,00 CUP/PAX

**4 Nights** in the *Hotel Grand Memories*  
Double Room: 29 240,00 CUP/PAX



Contact through the  
**Science and  
Technology Interface  
Society UCLV**

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### Packages for Foreign Delegates:

- **Individual Transfer** Airport – Hotel in Havana City
- **Collective Transfer** Habana City – Cayo Santa María
- **Collective Transfer** Cayo Santa María – Havana City
- **Individual Transfer** Hotel in Havana City – Airport

**2 Nights** in the *Hotel Santa Isabel*  
**+ 4 Nights** in the *Hotel Grand Memories*  
**Single Room:** 652,00 USD/PAX  
**Double Room:** 471,00 USD/PAX

**2 Nights** in the *Armadores de Santander*  
**+ 4 Nights** in the *Hotel Grand Memories*  
**Single Room:** 625,00 USD/PAX  
**Double Room:** 457,00 USD/PAX



Contact through the  
travel agency  
**GAVIOTA TOURS**

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**Universidad Central “Marta Abreu” de las Villas**  
**Faculty of Electrical Engineering**

