

# School on Fully-Programmable Systems-on-Chip for Scientific Instrumentation



**2 - 9 November 2019**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/8733/>  
[smr3332@ictp.it](mailto:smr3332@ictp.it)

This School will cover key aspects of fully-programmable Systems-On-Chip (SoC) and its applications to advanced scientific instrumentation. The activity will include the 2019 Second International Conference on Advances in Electrical, Electronic, and System Engineering (ICAEESE 2019). More information at <http://www.icaeese2019.org>

## Directors:

A. CICUTTIN, ICTP, Italy  
M.L. CRESPO, ICTP, Italy  
M.B.I. REAZ, University Kebangsaan Malaysia, Malaysia  
B. TIRU, Gauhati University, India

## Description:

The School will feature theoretical lectures, tutorials, and hands-on laboratory sessions on modern SoC development hardware platforms. It is primarily designed for researchers, teachers, and advanced students from the Asia-Pacific region who are looking to master modern FPGA-based SoC technologies for their scientific and academic activities. The School and Conference will provide participants opportunities for cross-boundary networking and collaboration, as well as a survey of trends in research in an era of borderless science.

## Topics:

- Review of Fully-programmable SoC Architectures;
- Software Automation Tools;
- SoC Design Methodologies;
- Hardware/Software System Design;
- FPGA and VHDL for Modeling and Logic Synthesis;
- Embedded C Language Programming;
- Real-time data acquisition, processing and transmission;
- Laboratory Sessions for Hands On Training and Experimentation.

## ICTP Scientific Contact:

M.L. CRESPO, ICTP, Italy

## External Organizing Committee:

H. J. Goswami, Gauhati University, India  
H. K. Kalita, Gauhati University, India  
D. Saikia, Gauhati University, India  
K.K. Sarma, Gauhati University, India  
U. Sarma, Gauhati University, India

## How to apply:

Online application:  
<http://indico.ictp.it/event/8733/>

Female scientists are encouraged to apply.

## Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Selected participants will also enjoy the waiver of the IC AE ESE 2019 registration fee.

## Deadline:

**1 August 2019**



The Abdus Salam  
International Centre  
for Theoretical Physics  
[www.ictp.it](http://www.ictp.it)  
Trieste, Italy







# ICAEESE2019

## Second International Conference on Advances in Electrical, Electronic and System Engineering

[www.icaeese2019.org](http://www.icaeese2019.org)

CALL FOR PAPERS

***'INNOVATION FOR SUSTAINABLE AND GREEN TECHNOLOGIES'***

2-3 NOVEMBER 2019

Guwahati, Assam, India

The 2019 International Conference on Advances in Electrical, Electronic and System Engineering (ICAEESE2019), the second conference of the series will be held at Gauhati University, Assam, India in collaboration with the Centre of Advanced Electronic and Communication Engineering, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia (UKM), Malaysia and the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy. IEEE Kolkata section will be technically co-sponsoring the conference.

With the theme 'Innovation for Sustainable and Green Technologies', the ICAEESE2019 is an exciting multidisciplinary conference focusing on the innovation that leads to sustainable development and a premier conference for exchanging all technical research in Electrical, Electronic and System engineering. ICAEESE2019 welcomes the academicians, researchers and engineers from a wide range of research interest from academia, industry and government to submit articles on the following tracks.

### ***TRACKS***

1. Computer and Information Sciences
2. Electrical and Electronic Engineering
3. Physical Sciences (Experimental)
4. Fundamental and Applied Sciences
5. System Sciences
6. Intelligent Systems
7. Green Technologies

ICAEESE2019 will also include an exhibition program and vendor exhibits. The accepted, registered and presented papers will be submitted to IEEE for inclusion in IEEE Xplore.

### ***IMPORTANT DATES***

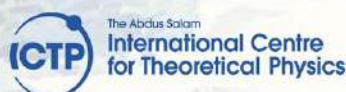
*Submission of  
Full Paper  
30<sup>th</sup> May 2019*

*Notification of  
Acceptance  
31<sup>st</sup> August 2019*

*Camera ready  
Submission  
20<sup>th</sup> September 2019*

*Registration  
9<sup>th</sup> September (Early Bird)  
10<sup>th</sup> October (Normal)*

***Organized by:***



***Technical  
co-sponsor:***



## **School and Conference on Fully Programmable Systems-On-Chip for Scientific Instrumentation**

**Dates:** 2<sup>nd</sup>-9<sup>th</sup> November 2019

**Conference dates:** 2<sup>nd</sup> and 3<sup>rd</sup> November 2019

**Conference name:** Second International Conference on Advances in Electrical, Electronic and System Engineering (ICAEESE2019)

**Venue:** Gauhati University

**Collaboration:** The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy and Universiti Kegagshaan Malaysia (UKM), Malaysia

### **Contact:**

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**Websites:** [www.icaeese2019.org](http://www.icaeese2019.org) , <http://indico.ictp.it/event/8733>