

ICIT 2023

The 24th IEEE International Conference on  
Industrial Technology  
Orlando FL, USA | 4 - 6 April, 2023



## IEEE IES CAPTURE THE FLAG – ORLANDO 2023

### Call For Participants

#### 1<sup>st</sup> IEEE IES International CTF on Cybersecurity in IoT-based Applications

The countless benefits and technological advances provided by the widespread deployment of IoT-based devices in applications in Industry 4.0, smart homes and cities, agricultural monitoring, and smart health devices, are still subject to immeasurable data security-related problems. Enabling and training students and professionals to understand and develop solutions to mitigate the issues related to cybersecurity in IoT and IT applications has been a significant need in the technology sector.

In this context, the IEEE IES Standards Committee organizes the first international CTF on cybersecurity in IoT-based applications, a Capture the Flag (CTF) competition.

#### Competition

The CTF is an online event to be held during the 24th IEEE International Conference on Industrial Technology (ICIT) in April 4 2023 in Orlando, Florida, USA. The challenges proposed in this Jeopardy-style CTF aim to examine skills in the topics of cryptography, forensics, web exploitation, reverse engineering, steganography, binary exploitation, scripting, and others, in IoT and IT based applications.

Teams up to 4 participants will be allowed and will be held remotely, teams will have 24 hours to solve the proposed challenges, guaranteeing them different scores according to the solution time for the challenges and the use of tips to solve them.

All registered teams will have the opportunity to participate in the competition that will take place during the ICIT conference event in Orlando, Florida, USA.

### Prizes

The best three teams will earn the following prizes:

- 1<sup>st</sup> Prize: USD\$900
- 2<sup>nd</sup> Prize: USD\$400
- 3<sup>rd</sup> Prize: USD\$200

### Complete schedule: Timezone EDT (local time in Orlando, Florida, USA)

- Feb. 1 – Feb. 21, 2023 - Registration @ ICIT 2023 for the CTF;
- April 4, 2023 (Starts 8:00 AM; duration 24 hours) - CTF contest (online);
- April 5, 2023 – Awards Ceremony (online)

### Requirements:

To participate in the competition, competitors must have a laptop with internet connection and it is recommended to install an operating system aimed at auditing and computer security in general, such as Kali Linux, Parrot, etc. The OS installation can be done with virtualization software (VirtualBox, VMware, ...).

### Registration:

Registration for the 1<sup>st</sup> IEEE IES International CTF on Cybersecurity in IoT-based Applications can be done using the form available at [https://ec.europa.eu/eusurvey/runner/ICIT\\_2023\\_IOT\\_CTF](https://ec.europa.eu/eusurvey/runner/ICIT_2023_IOT_CTF).

You can also access the registration form using the following QR code:



**NOTE:** Teams must register for the conference at the special CTF registration fee:

CTF Team Registration:

IES members: \$50

Non-IES members: \$75

(If registered for the conference, CTF fees are included)

### Organization:

The CTF is organized by the IEEE IES Standards TC and the TC on Industrial Agents. Co-sponsors are the TC on Resilience and Security for Industrial Applications and the TC on Building Automation, Control and Management.

### Contacts:

For general and technical questions, please contact the support team via email [ctf-ies2023.cybersec@ipb.pt](mailto:ctf-ies2023.cybersec@ipb.pt).

### Comments:

Transport and accommodation costs for the final stage of the competition are the responsibility of the competitors.

