



# 63rd FTTCE International Congress

26 - 28 September 2024, Kraków, Poland

## Means of mitigating cyber-security attacks

**George Agapiou and Konstantinos Lessis**

WINGS ICT SOLUTIONS, Greece

### **Abstract**

This presentation proposes the means to detect cyber security threats, to analyze them and proposes a tool to mitigate them. The real time attack detection is essential to be considered along with hypothetical attack scenarios and present tools that mitigate the aforementioned threats. For the tool to be able to detect and mitigate cyber-attacks, there is a need to satisfy specific requirements, which are related to the attack detection capabilities. The presentation starts with analysis of cyber-attack scenarios and their vulnerabilities. Following the analysis of the cyber-attack the description of the tool is provided, the method of collecting and analyzing data and the algorithms used to detect the type of the attack. The collected data are processed and analyzed to detect anomalies and threats in an infrastructure system. When an anomaly is detected, the platform rates the event according to its risk and notifies the user for the potential of a threat.