



Securing the Digital Industrial Revolution: Can (Io)Things safely work in the wild cyberspace?

Abstract

The Internet of Things (IoT) has been recently considered as the driver of a new industrial revolution. Large enterprises in any sectors (e.g. manufacturing, healthcare, finance, etc.) are expected to change completely their way to do business and their physical perimeter thanks to the dynamic interconnection of intelligent devices and humans. This revolution comes with huge business opportunities, nevertheless it calls for new security challenges that need to be quickly addressed. Interconnection of extremely heterogeneous devices (e.g., smart TVs, blood glucose meters, manufacturing monitoring sensors, surgical robots etc) through untrusted networks (e.g. the Internet) without central authority creates indeed new options for cybercriminals that could exploit such devices to perform complex and potentially devastating attacks.

IoT devices can be used to control mission critical applications or collect extremely sensitive information, thus representing an extremely appealing target for several different kinds of crimes (data theft, industrial sabotage or ransom attacks, just to cite a few). A rise in the number of attacks driven through IoT devices/networks is expected in the forthcoming years.

The workshop aims to address the main research challenges behind the internet of things revolution, what can be done by research to help devices to deliver their services reliably in the wild cyberspace. How can research help in raising the level of protection of such devices in the cyberspace in order not to become agents of unknown, potential hostile forces.

Moderator

Arturo di Corinto
Journalist La Repubblica

Speakers

Edward Felten, Princeton University, US
Roberto Baldoni National Laboratory of Cybersecurity CINI, University of Rome La Sapienza, Italy
Tony Jeffs, Director of Engineering at Cisco
Vladimiro Sassone, University of Southampton, UK
Jean-Yves Marion, Lorraine University, France
John Frank, Vice President Corp EU Affairs - Microsoft

Agenda

3.00 pm Welcome of the moderator and introduction to the workshop
3.10 pm Presentations from panel participants (including questions from the moderator to each participant)
5.10 pm Questions from the audience

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