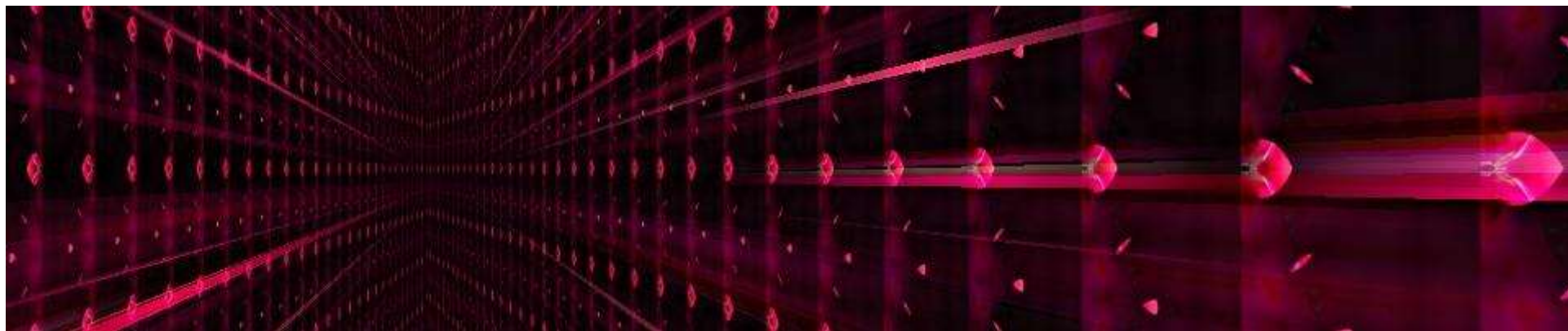


# International Workshop on Secure Internet of Things (SIoT 2015)

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## Workshop Description and Scope

The International Workshop on Secure Internet of Things 2015 (SIoT 2015) will be held in conjunction with the [European Symposium on Research in Computer Security \(ESORICS 2015\)](#) in Vienna, Austria, at the Vienna University of Technology, on **21st of September 2015**.

SIoT 2015 is a community where interested stakeholders, from academia and industry, can present their original work on providing a secure environment for connecting systems in an Internet-specific structure. The wide spread of mobile and embedded devices, able to connect to a network and share information, requires a careful look at the security risks taken by end users. In this context, the workshop will focus on contributions related to the security of mesh and machine-to-machine networks, secure software stacks running on ubiquitous network nodes, and algorithms used to provide secure end-to-end communication between nodes.

## Call for Papers

You are welcome to send the CFP (available [TXT format](#)) to your friends and colleagues working in the field.

## Workshop Topics



**SYSTEMS.CS.PUB.RO**

The focus of this workshop is to create a secure environment for connecting systems in an Internet-specific structure. These may include, but are not limited to, the following topics:

- Threat Models in Internet of Things
- Attack Strategies for Internet of Things
- Security Architectures
- Secure Mobile Applications
- Secure Mobility Management
- Intrusion and Malware Detection
- Security in Wireless Sensor Networks
- Reliable Interactions with Network Services
- System and Data Integrity
- Scalability and Robustness for Internet of Things
- Identity Management in Internet of Things
- Trustworthiness in Internet of Things
- Secure Operating Systems
- Privacy in Internet of Things
- Adaptive Security in Internet of Things

## **Program - 21st September**

**09:00 - 09:15** Welcome Message

**09:15 - 10:30** Security and Privacy (Session 1)

- **Keynote: IoT Security Threats, Research Challenges, and Industrial Ecosystems** *Dr. Tieyan Li and Dr. Guilin Wang, Huawei*

**10:30 - 11:00** Coffee Break

**11:00 - 12:40** Secure Protocols (Session 2). **Session Chair:** Constantinos Patsakis, University of Piraeusi, Greece

- Smart Insiders: Exploring the Threat from Insiders using the Internet-of-Things  
*Jason Nurse, Arnau Erola, Ioannis Agraftotis, Michael Goldsmith and Sadie Creese*
- BALS: Bluetooth Low Energy Application Layer Security Add-on  
*Diego Ortiz-Yepes*
- Secure Association for the Internet of Things  
*Almog Benin, Sivan Toledo and Eran Tromer*
- REST-ful CoAP Message Authentication  
*Hoai Viet Nguyen and Luigi Lo Iacono*

**12:40 - 14:00** Lunch Break

**14:00 - 15:30** Users and Privacy (Session 3)

- **Keynote: IOT Security and Data Integrity using 3GPP Authentication**  
*Gustavo Tanoni, Ericsson*
- **Keynote: On Security Threats in IoT with Mobile Guard**  
*Dr. Joerg Abendroth, Nokia*

**15:30 - 16:00** Coffee Break

**16:00 - 17:40** Security Attacks and Threats (Session 4)

- On the security and privacy of Internet of Things architectures and systems  
*Emmanouil Vasilomanolakis, Jörg Daubert, Manisha Luthra, Vangelis Gazis, Alexander Wiesmaier and Panagiotis Kikiras*
- Multiple Fault Attack on PRESENT with a Hardware Trojan Implementation in FPGA  
*Jakub Breier and Wei He*
- Characterizing and Comparing the Energy Consumption of Side Channel Attack Countermeasures and Lightweight Cryptography on Embedded Devices  
*David Mccann, Kerstin Eder and Elisabeth Oswald*
- Not so Smart: On Smart TV Apps  
*Marcus Niemietz, Juraj Somorovsky, Christian Mainka and Joerg Schwenk*

**17:40 - 17:45** Closing Remarks

**18:20 - 22:00** Dinner

## **Organizing Committee**

### **Workshop Co-Chairs**

**Gabriel GHINIȚĂ**, Department of Computer Science, University of Massachusetts Boston, USA  
**Pedro PERIS-LOPEZ**, Computer Security Lab (COSEC), Computer Science and Engineering Department, Carlos III University of Madrid, Spain

### **Publicity Chair**

**Guillermo SUAREZ DE TANGIL**, COSEC - UC3M Computer Security Lab, Department of Computer Science, Universidad Carlos III de Madrid, Spain

### **Web Chair**

**Mihai BUCICOIU**, Department of Computer Science, University POLITEHNICA of Bucharest, Romania

## Program Committee Members

Frederik ARMKNECHT, University of Mannheim, Germany  
Ravishankar BORGAONKAR, Aalto University, Finlanda  
Mihai CHRISTODORESCU, Qualcomm Research Silicon Valley, US  
Mauro CONTI, University of Padua, Italy  
Xinshu DONG, Advanced Digital Sciences Center, Singapore  
Dennis GESSNER, NEC Laboratories Europe, Germany  
Bogdan GROZA, Politehnica University of Timisoara, Romania  
Tzipora HALEVI, NYU Polytechnic School of Engineering, US  
Stefan KATZENBEISSER, Technische Universität Darmstadt, Germany  
Marek KLONOWSKI, Wroclaw University of Technology, Poland  
Mirosław KUTYLOWSKI, Wroclaw University of Technology, Poland  
Mike LUDWIG, Dresden Elektronik Ingenieurtechnik GmbH, Germany  
Andrew MARTIN, University of Oxford, United Kingdom  
Markus MIETTINEN, Technische Universität Darmstadt, Germany  
Paolo PALMIERI, Bournemouth University, United Kingdom  
Costas PATSAKIS, University of Piraeus, Greece  
Alfredo RIAL, IBM Zurich Research Laboratory, Switzerland  
Rodrigo ROMAN, University of Malaga, Spain  
Razvan RUGHINIS, University POLITEHNICA of Bucharest, Romania  
Matthias SCHUNTER, Intel Collaborative Research Institute for Secure Computing, Germany  
Agustí SOLANAS, Smart Health Research Group at Rovira i Virgili University, Spain  
Thorsten STRUFE, Technische Universität Dresden, Germany  
Juan E. TAPIADOR, Universidad Carlos III de Madrid, Spain  
Carmela TRONCOSO, Gradiant, Spain  
Hien TRUONG, University of Helsinki, Finland  
Jonathan VORIS, New York Institute of Technology, US  
Bogdan WARINSCHI, University of Bristol, UK

## Important Dates

- Submission Deadline: ~~June 25th~~, July 9th, 2015 (Extended)
- Author Notification: ~~July 29th~~, August 6th, 2015 (Extended)
- Author Registration: ~~August 14th~~, August 31st, 2015 (Extended)
- Camera Ready: ~~August 14th~~, August 31st, 2015 (Extended)
- Publishing version: September 1st, 2015
- SIoT Workshop: September 21st, 2015

## **Submission Guidelines**

Papers submitted for publishing must adhere to the [CPS template](#) and should be at most 10 pages in this format, including the bibliography and well-marked appendices. The original settings of textwidth and textheight should be preserved. Accepted papers will be published by Conference Publishing Services (CPS).

Submissions must be written in English and must be in pdf format. Papers must be submitted via the [EasyChair](#) conference system.

## **Registration**

SIoT 2015 will be held in conjunction with ESORICS on the 21st of September. Please register via the [ESORICS Registration Page](#). Registration fees are as follows:

- Early Workshop registration (until 31st August, 2015)

SIoT Workshop 2015: Standard Registration: 320 EUR

SIoT Workshop 2015: Student Registration: 100 EUR

## **Venue**

SIoT 2015 will be held in conjunction with ESORICS 2015 at the Vienna University of Technology (TU) in the 4th district of Vienna close to the city center. Please follow this [link](#) to see venue details.

## **Contact**

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