Call for Contributions

Note: Onsite and Online Options
In order to accommodate a large number of situations, we are offering the option for either physical presence or virtual participation. We would be delighted if all authors manage to attend in person, but are aware that special circumstances are best handled by having flexible options.

Submission:

1. Inform the Chair: with the Title of your Contribution
2. Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICNS+2020+Special
Please select Track Preference as **IoTSEC**

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Special track

IoTSEC: Security for IoT

Chair and Coordinator

Lecturer Peter Edge, ICT and Computer Networking Ara Institute of Canterbury, Canterbury & West Coast, New Zealand
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along with

ICNS 2020, The Sixteenth International Conference on Networking and Services
https://www.iaria.org/conferences2020/ICNS20.html
September 27 - October 01, 2020 - Lisbon, Portugal

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The internet of Things (IoT) is an emerging technology that has revolutionised sensor network connectivity on a global scale. The role of IoT is comparable to the rise of Supervisory Control and Data Acquisition (SCADA) and Building Automation Control (BAC) systems popular in the 1980s. From the 1990s to present day, the majority of SCADA and BAC installations remain isolated as networks with weak security presenting a problematic pathway for integration to the Internet.

Where industry researchers have attempted to address security in this rapid uptake of IoT, standard internet technology and protocols applied to networks heterogeneous in nature, has exacerbated attempts to secure IoT infrastructure from existing issues within these technologies. As utilization of IoT expands into industry sectors including agriculture, transport fleets, healthcare, wearables and even complete cities, security research has failed to keep pace. The attraction of IoT is its diversity. Failures of IoT are the inability to scale security to the vast number of things producing and transmitting data.

The objective of this track is to identify and develop a solution in the deployment of IoT infrastructure for identifying threats, predicting risks and managing remote sensors in specific installations of IoT systems. Focus is on the life cycle of the IoT from:
  a) Planning
  b) Installation
  c) Maintaining and updating of remote sensor networks (end of life or firmware update)
  d) Security in transmission of data
  e) Detection of unauthorised devices
  f) Continuous management of the systems

Topics include, but not limited to:
- IoT Security Protocols
- IoT Security Threats (recorded and predicted)
- Security Information and Event Management (SIEM)
- Simple Network Management Protocol (SNMP)
- Threat Analysis
- Machine to Machine (M2M)
- Industrial Internet of Things (IIoT)
- Software Defined Networking (SDN)
- Business Analysis
- Risk Impact Application Programming Interface (API)
- Data Storage
- Constrained Application Protocol (CoAP)
- Message Queuing Telemetry Transport (MQTT) (Brokers)
- Blockchain Technologies

Important Datelines
> Submission: July 3, 2020
> Notification: July 23, 2020
> Registration: August 2, 2020
> Camera ready: August 2, 2020

Contribution Types
- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.org
- Print proceedings will be available via Curran Associates, Inc.: http://www.proceedings.com/9769.html
- Articles will be archived in the free access ThinkMind Digital Library: http://www.thinkmind.org

Paper Submission
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICNS+2020+Special
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Registration
- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at http://www.iaria.org/registration.html

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