

**Title:**

Smart Internet of Things technology and its security.

Abstract:

Nowadays, Internet of Things(IoT) has been used in many areas such as agriculture, industry, healthcare and so on. Many newly developing technologies like Artificial Intelligence(AI), block chain, cloud computing can be used in IoT to increase the usability,efficiency and reliability of IoT system. IoT combined with these emerging technologies can be called smart IoT. However, the security of smart IoT system still should be focused, cyber attacks have caused serious economic losses all over the world. For example, the smart grid in Ukraine was attacked in 2015 and caused power failure in half of the country. Thus, the security of smart IoT system is very important. For above reasons, this workshop will focus on smart IoT technology and its security. For smart IoT technology part, the workshop encourages the papers about how to use the emerging technologies in IoT systems to increase their usability, efficiency, reliability and so on. Emerging technologies include but not limited to Artificial Intelligence(AI), block chain, cloud computing, edge computing, big data and so on. For security part, the workshop welcome the papers about the following parts to increase the security of smart IoT systems, include IoT cyber attack detection, IoT penetration test, IoT cyber attack defence strategies, IoT security protocol optimization, block chain based IoT security, AI security, AI in IoT cyber attack detection, reliability of IoT system and so on, but not limited to these areas.

Scope and Topics:

This workshop encourages potential topics include but are not limited to:

- ✧ Internet of Things and Its Applications
- ✧ AI in IoT system
- ✧ Block chain in IoT system
- ✧ Cloud computing or edge computing in IoT system.
- ✧ Big data in IoT system
- ✧ IoT cyber attack detection
- ✧ IoT penetration test
- ✧ IoT cyber attack defence strategies
- ✧ IoT security protocol optimization
- ✧ Block chain based IoT security
- ✧ AI security
- ✧ AI in IoT cyber attack detection
- ✧ Reliability of IoT system



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