

Multimedia Tools and Applications

Call for Papers

Security and privacy for Multimedia in the Internet of Things (IoT)

We live in an interconnected world that different devices and people can be connected to each other by intelligent algorithms, apps, social networks and the infrastructure set by Internet of Things (IoT), the next generation of multimedia which include the integrated sensors, algorithms, mobile and web services. When more people and devices are connected without much restriction, the issue of security, privacy and trust remain a challenge since Multimedia in IoT services should provide a robust and resilient security platforms and solutions against any unauthorized access. However, the recent literature and publications have shown that there are raising concerns about hacking, security breach, data manipulation, social engineering and new ways of attacks. Viruses can be hidden as the part of multimedia that visits to the infected websites can trigger downloads of Trojans and viruses to victims' machines. There are techniques to steal personal information and pictures for unauthorized dissemination and imposters/identity thefts in social networks. In order to demonstrate the effectiveness of resilient security and privacy solutions, methods such as new standards, advance cryptography, improved algorithms for intrusion detection, personalized privacy and isolation of malicious viruses can be used independently or altogether to minimize the threats. Unpublished new and innovative methods, techniques and proofs-of-concepts supported by strong theory/algorithms and simulation/ experiments are welcome for our special issue. Topics of interest include (but are not limited to):

- Access control and authentication
- IoT and Social Network security and privacy
- Encryption of all types, including homomorphic encryption
- Device and hardware security and privacy
- Cybercrime detection technique and prevention; case studies in deep criminal network analysis
- Denial of Service/ Distributed Denial of Service (DoS/DDoS)
- Information Forensics
- Data Leakage and Exfiltration
- Intrusion Detection/Prevention Systems
- Large scale simulations and experiments for security
- Location based privacy ; privacy enhanced technologies
- Risk Mitigation, reduction and simulation
- Large scale penetration testing and ethical hacking
- Secure Machine-to-Machine communications in IoT
- Identity management and standard
- Data security, recovery and segregation
- Secure integration of IoT and social networks

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(For email enquiry, please write "1059T - Security and privacy for Multimedia in IoT" in your email title)

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Submission Guidelines:

Papers submitted to this special issue for possible publication must be original and must not be under consideration for publication in any other journal or conference. Manuscripts should be submitted online at <https://www.editorialmanager.com/mtap/> choosing "1059T - Security and privacy for Multimedia in IoT" as article type. When uploading your paper, please ensure that your manuscript is marked as being for this special issue. All the papers will be peer-reviewed following the MTAP reviewing procedures. Authors should prepare their manuscripts according to the online submission page of Multimedia Tools and Applications at www.Springer.com/11042

Important dates:

We will provide two rounds for the selection process. Any papers that are not relevant for this call or with its quality below expectations, will be rejected in the pre-screening stage.

Submission deadline: June 30, 2017

Pre-screening outcome: July 16, 2017

Notification of round 1: September 30, 2017

Deadline for round 2: November 30, 2017

Notification of round 2: January 15, 2017

Final manuscript due: February 7, 2017

Publication date: TBD



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