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Special Issue on Recent advances on security and privacy in Intelligent Transportation Systems

The rapid evolution of communications technologies together with the variety and potential availability of network access mediums and service providers have led to the emergence of the Intelligent Transportation Systems (ITSs). There is a large variety of ITS networks spanning from mobile ground networks, e.g. Vehicular Ad Hoc Networks (VANETs) to aerial ground networks, e.g. Unmanned Aerial Vehicle (UAV) networks. VANET is a kind of ITS networks where a vehicle is a connected car equipped with various communications technologies such as: Dedicated Short Range Communications (DSRC) and cellular networks (3G/4G). The purpose of VANET is to ensure a wide area coverage for all vehicles in scaling the network, thus achieving the always best connected paradigm where the best connectivity is offered to clients wherever they are and at any time. UAV is another kind of aerial ITS networks, which are used in military applications for target monitoring and engaging air to ground combats. It is also used in civil applications to explore inaccessible areas and deliver data to and from areas with no network infrastructure.

There are many unprecedented challenges to realize ITS network; security and privacy is one of them since, on one hand, vehicles exchange sensitive data (e.g., accidents notification, coordinates of nuclear sites, etc.) and on the other hand they form a specific network with particular characteristics (frequent fragmentation and dynamic topology). This special issue covers studies and solutions that ensure ITS security and privacy. We encourage authors from the industry and academe to submit their original research works that will enhance our understanding and modeling of security, privacy, and attacks.

Potential topics include, but are not limited to:

- Intrusion detection and response systems in ITS network.
- Intrusion prediction model in in ITS network
- Data Mining and Machine learning for IDS
- Cyber-attacks against ITS network
- Security metrics

- Secure localization in ITS network
- Lightweight cryptography technique
- Cyber-attacks modeling in ITS network
- Secure routing protocol
- Key management schemes in ITS network
- Privacy challenges in ITS

Important Dates

Submission deadline: Apr 05, 2018.

Acceptance notification: July 01, 2018

Revised paper due : September 01, 2018

Final manuscript due: December 01, 2018

Expected Publication of the Special Issue: Mars 01, 2019

Submission Guidelines

All submissions have to be prepared according to the Guide for Authors as published in the Journal website at <http://www.journals.elsevier.com/ad-hoc-networks/> (<http://www.journals.elsevier.com/ad-hoc-networks/>). Authors should select “SI: SP&ITS2017”, from the “Choose Article Type” pull-down menu during the submission process. All contributions must not have been previously published or be under consideration for publication elsewhere. A submission based on one or more papers that appeared elsewhere has to comprise major value-added extensions over what appeared previously (at least 30% new material). Authors are requested to attach to the submitted paper their relevant, previously published articles and a summary document explaining the enhancements made in the journal version.

Guest Editors of the Special Issue:

Sedjelmaci Hichem

Affiliation: Technological Research Institute – SystemX, France

Sidi Mohammed Senouci

Affiliation: University of Burgundy, France

Nirwan Ansari

Affiliation: New Jersey Institute of Technology, New Jersey, United States

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Affiliation: COMSATS Institute of Information Technology, Pakistan

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