Overview:

Vehicular networks (or VANETs for short) are gaining attention among the research community. With the evolution of ICT technologies in this field, a huge amount of services may be devised. In fact, the term "smart cities" has been recently coined to refer to advanced applications that make public services to be "smarter". Transportation management is one of these services.

Despite the expected benefits, security issues cannot be taken for granted. In particular, classical needs such as authentication, confidentiality, integrity, access control and non-repudiation have to be provided in this novel scenario. Data trust is also a relevant matter. According to the unique features of VANETs (e.g. high mobility of nodes, geographical dispersion, short-range communications), offering these services becomes a challenge.

Privacy is also of outmost relevance in VANETs. In a context in which malicious third parties may abuse Road-Side Units (RSUs) or compromise surrounding vehicles, it is essential to ensure that threats like tracking are not easily carried out. Privacy preservation is also required to prevent a "big brother" effect. However, this need has to be balanced with liability – misbehaving drivers and/or offenders must be properly authenticated to make them liable for their malicious actions.

The standardization community (e.g. IEEE, SAE, etc.) is also contributing to generalize the mechanisms to provide with security and privacy support for vehicular communications. However, there is still the need to propose novel approaches in this regard.

The goal of this special issue is to address the security and privacy in the VANET field from a holistic perspective. Particularly, **this special issue will contain extended versions of selected papers of the** [1st EAI International Conference on Security and Privacy on Vehicular Ad-hoc networks](). These versions must contain **at least 30% of novel content** as compared to the conference version.

Expected contributions have to identify novel models, techniques, protocols, algorithms or architectures, etc. that provide with the said properties. Critical acceptance factors will be based on the novelty, the relevance and impact into real-world VANET deployment as well as the technical merit.

Scientists and practitioners all over the world are invited to submit their contributions. Proposals which include an experimental implementation and evaluation of the proposed approach would stand out over the rest.

Topics

Topics of interest include, but are not limited to, the following scope:

Privacy/Anonymity mechanisms in VANETs	– Security and privacy metrics
- Authentication and access control in VANETs	– Secure and private location-based services in VANETs
- User and Data trust issues in VANETs	- Novel cryptographic algorithms for VANETs
- Formal security models for VANET protocols	- Secure and privacy-preserving aggregation techniques for VANETs
- Formal verification techniques for VANET protocols	- Standardization aspects of VANET security and privacy
- Human-computer interaction issues related to security/privacy perception in VANETs	- Legal issues related to security and privacy aspects for VANETs

Important Dates:

- **Manuscript submission deadline: February, 15th , 2017**
- Notification of acceptance: May, 1st , 2017
- Submission of final revised paper: June, 15th, 2017
- Publication of special issue (tentative): August, 2017

Submission Procedure:

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through http://www.editorialmanager.com/mone/. Please recall that only extended versions of selected papers presented at the conference will be considered.

Guest Editors:

- Dr. José María de Fuentes, Computer Security Lab, Carlos III University of Madrid (Spain) (Contact details: webpage)
- Dr. Lorena González-Manzano, Computer Security Lab, Carlos III University of Madrid (Spain)
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